

Attachment 2

Replacement Pages of
Tree Survey and
Tree Treatment Proposal

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	<p>relevelled for the formation of Pump Station.</p> <ul style="list-style-type: none"> • Minimum 2.5m working area is necessary for construction access and formworks, including site formation works, manoeuvring of machineries, spatial provision for hoarding construction, construction of site office, etc. • Overgrown or Over-congested trees on slope - Existing trees on slope are overgrown and roots entangled with one another so that the tree rootballs are technically not transplantable. Survival rate after tree transplanting is low. • Dead tree (1 no.) • On the steep slope, two nos. large trees, T57 and T741 were found their rootball hardly retrievable. After critically review of their very low post-transplanting survival, they are recommended “fell”. • The rest of trees are with: <ul style="list-style-type: none"> (i) unrecoverable health problem or in poor condition; (ii) low amenity value and common species; (iii) poor form with leaning trunk or imbalanced tree form; (iv) low survival rate after transplanting; and , (v) Dead branches and roots merged with adjacent drainage channel.
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In summary, please find the following **Table 2** showing the Tree Treatment Proposal:

Table 2: Tree Treatment Proposal

Description	Current Scheme
Total Nos. of Trees <u>Surveyed</u>	25 (incl. 1 dead tree)
Nos. of Trees Proposed to be <u>Felled</u>	25 (incl. 1 dead tree)

7.0 **Landscape Proposal**

Major objectives of this current Landscape Proposal are listed below:

- To enhance greenery by planting trees;
- To replenish trees loss due to felling of existing trees;
- To plant native tree species for benefit of local habitat within the Application Site;
- To plant trees of suitable size on slope for sustainable natural process;
- To provide visual screening to the proposed pump station.

Please find the following **Table 3a, 3b and 3c** showing the proposed tree species & size for Tree Planting Proposal. Tree listed in the Table is selected to fit with the existing tree species nearby, the local climatic character, micro-climate and existing slope profile. Different environmental and spatial requirements are also taken into account during the development of the planting design. Thus, new trees will be planted on slope or sloping ground in form of pit planting subject to constraints of slope gradients. With reference to GEO Publication No. 1/2011, small tree planting on slope gradient of over 30 degrees is not recommended. To balance initial greening and healthy tree growth, actual site condition and slope gradient on particular slope portion has been critically review. **Please refer to Tree Planting Plan in Appendix 5-3 indicating the extent of**

the slope with slope gradient of over 30 degrees. Other limitations of tree planting due to existing site condition please refer to the Site Allocation Diagram in **Table 4**.

Considering that some *Eucalyptus spp.* on existing slopes may not be beneficial to local habitat, native tree species as new tree planting is recommended. In addition, tree planting on open bottom is provided to ensure healthy long term roots growth. Please refer to Tree Planting Plan in **Appendix 5-3** and Slope Tree Planting Section **and Elevation** in **Appendix 5-4**.

Table 3a: Proposed Tree Planting Schedule

Proposed Species	Chinese Name	Quantity/ Size
<i>Bischofia javanica</i> *	秋楓	7 nos. (Size: Standard Size 3-4m Height; 2-4m Spread)
<i>Celtis sinensis</i> *	朴樹	4 nos. (Size: Light Standard Size 2-3m Height; 2-4m Spread)

Table 3b: Proposed Shrub and Groundcover Planting Schedule

Botanical Name	Chinese Name	Height x Spread (mm)	Spacing (mm)
Shrub Species			
<i>Melastoma sanguineum</i> *	毛荳	600 x 500	500
<i>Rhodomyrtus tomentosa</i> *	桃金娘	400 x 300	250
<i>Rhododendron simsii</i> *	紅杜鵑	400 x 300	250
<i>Ixora chinensis</i> *	龍船花	600 x 500	500
<i>Tibouchina semidecandra</i> *	巴西野牡丹	400 x 350	300
Ground Cover Species			
<i>Asparagus cochinchinensis</i> *	天門冬	350 x 400	300
<i>Nephrolepis auriculata</i> *	腎蕨	350 x 400	300
<i>Ophiopogon japonicus</i> *	沿階草	100 x 150	100
Lawn Species			
<i>Cynodon dactylon</i> *	狗牙根	--	--

Table 3c: Proposed Vertical Green Planting Schedule

Proposed Species	Chinese Name	Quantity/ Size (Height x Spread)
<i>Ficus pumila</i> *	薜荔(文頭郎)	1000 mm x 250 mm

Remarks: * Native Species

The above proposal outlines the proposed landscape design, along with the limitations imposed by the current site constraints as listed in the Space Allocation Diagram in **Table 4** and Tree Planting Plan in **Appendix 5-3**.

Table 4: Space Allocation Diagram

Space Allocation Diagram	
Items	Area (approx. %)
(A) Areas reserved for necessary and basic facilities for Proposed Pump Station	64%
<ul style="list-style-type: none"> • Building footprint • Loading/ unloading/ drop off area • Hardscape & maintenance/ circulation path 	<p>42%</p> <p>7%</p> <p>15%</p>
(B) Topographical constraints – Slope gradient of over 30 degrees	10%
(C) Utilization of available planting space	26%
<ul style="list-style-type: none"> • Available and feasible tree planting area 	26%
Total Site Area= (A) + (B) + (C)	100%

(A) Areas reserved for necessary and basic facilities for the Proposed Pump Station

Only a minimal footprint is proposed for the Pump Station with a minimum required size of 237m². Other provisions, such as hard paved circulation/ maintenance paths, loading/ unloading/ drop off areas, are considered basic and essential to the development of Proposed Pump Station.

(B) Topographical constraints – Slope gradient of over 30 degrees

Despite part of SIMAR Slope Feature No. 7SW-D/FR54 being re-levelled, around 10% of the slope in the vicinity remains at a slope gradient of over 30 degrees. According to GEO Publication No. 1/2011, this gradient is not suitable for tree planting. Please refer to the attached “Tree Planting Plan” which indicates the extent of the slope gradient of over 30 degrees. For healthy and sustainable tree growth on slope gradient of over 30 degrees, sufficient spacing for new tree planting has to be considered to achieve future optimal landscape value on slope.

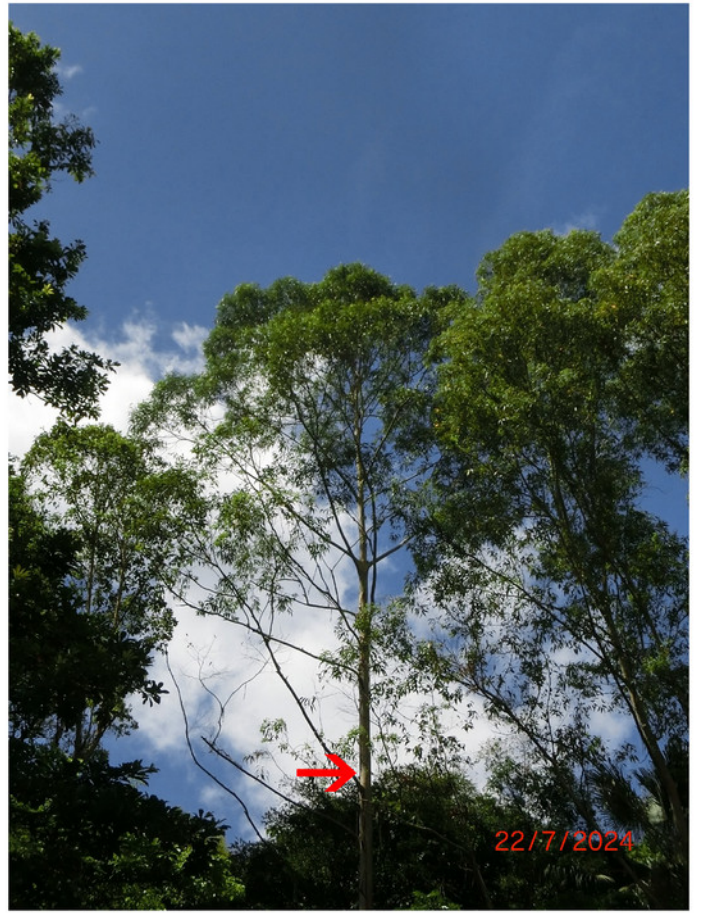
(C) Utilization of available planting space

The Applicant has fully utilized all available and feasible spaces for tree planting within the development limits and constraints mentioned above. All areas previously required for the construction of Proposed Pump Station have been allocated for new tree planting. Provided that a 1:1 compensation ratio in terms of quantity is adopted (i.e. 25 nos. new trees), it would occupy at least four times the current available planting space. With the principle of “right tree right place”, the Applicant aims to achieve high-quality landscaping, tree planting with sufficient planting space should be prioritized.

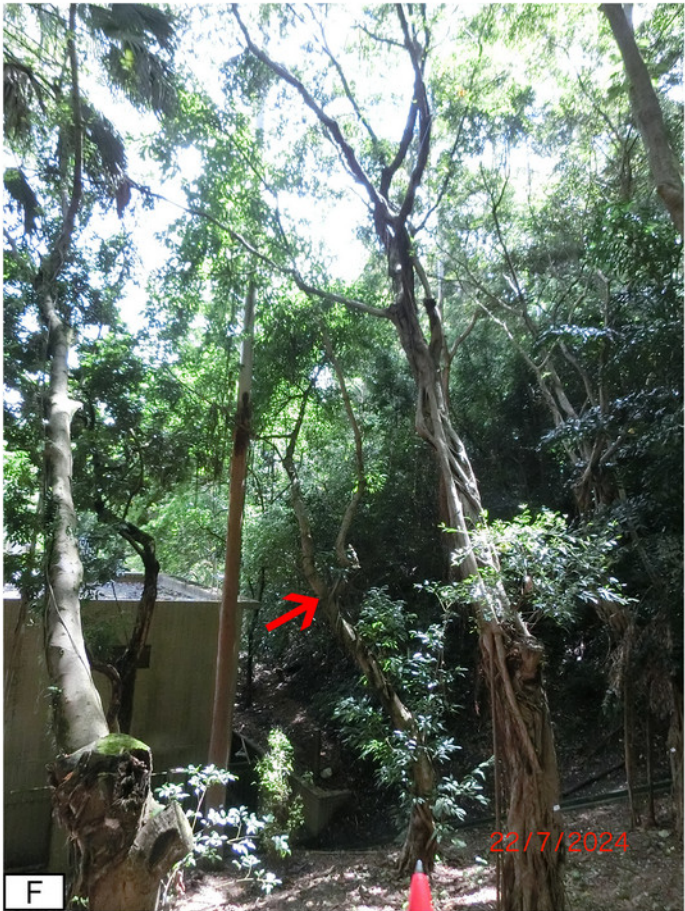
Due to existing site constraints, replanting ratio of **1:0.44** in terms of quantity is the best we can achieve, with regards to the guidelines of *DEVB TC(W) No. 04/2020* replanting ratio of 1:1 may **NOT** be applied for trees growing on slope. To replenish the loss of greenery, new trees of higher ecological and aesthetic value are proposed. Nevertheless, the Applicant has maximized all available and feasible area for new tree planting. Consequently, **11** native trees are the optimal number we can achieve given the constraints. Refer to Tree Planting Plan in **Appendix 5-3**.



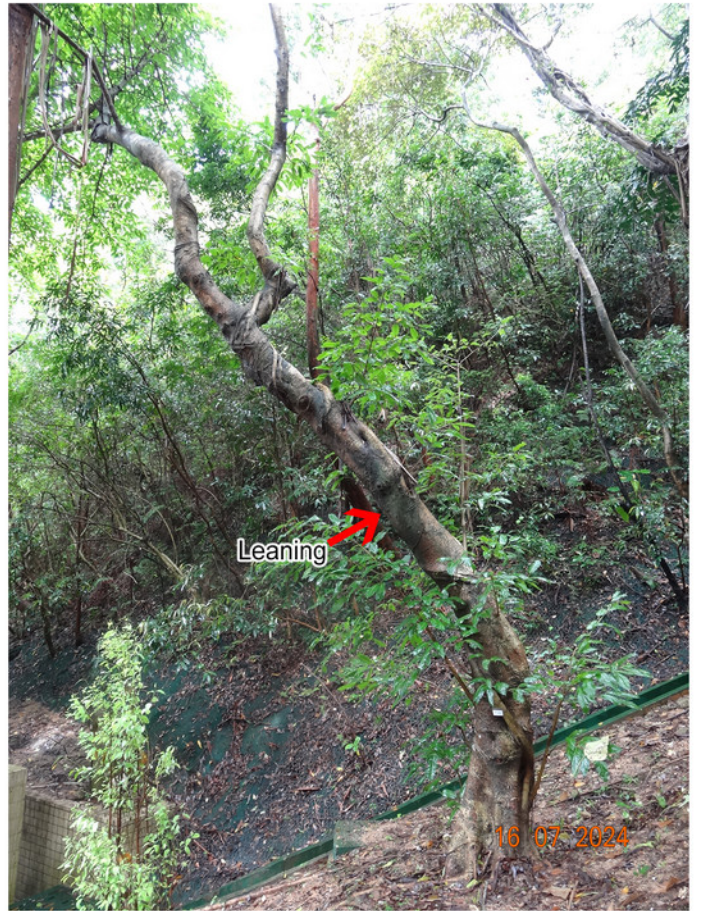
T741



CLOSE UP



T742



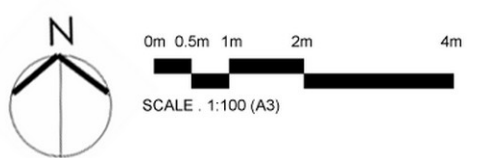
CLOSE UP

Proposed Comprehensive
Development at Lot No.
Tree Photographic Record
(Pump Room)

R-Retain T-Transplant F-Fell D-Dead Tree



- LEGEND:**
- - - APPLICATION SITE BOUNDARY
 - PROPOSED VERTICAL GREEN WITH SELF-CLIMBING SPECIES
 - ● PROPOSED NEW TREES (11 nos.)
 - PROPOSED SHRUBS AND GROUNDCOVERS
 - PROPOSED LAWN (0.60m Maintenance Path)
 - HARD PAVED AREA
 - +47.95 PROPOSED LEVELS



THE EXTENT OF THE SLOPE WITH A GRADIENT EQUAL TO OR OVER 35 DEGREES

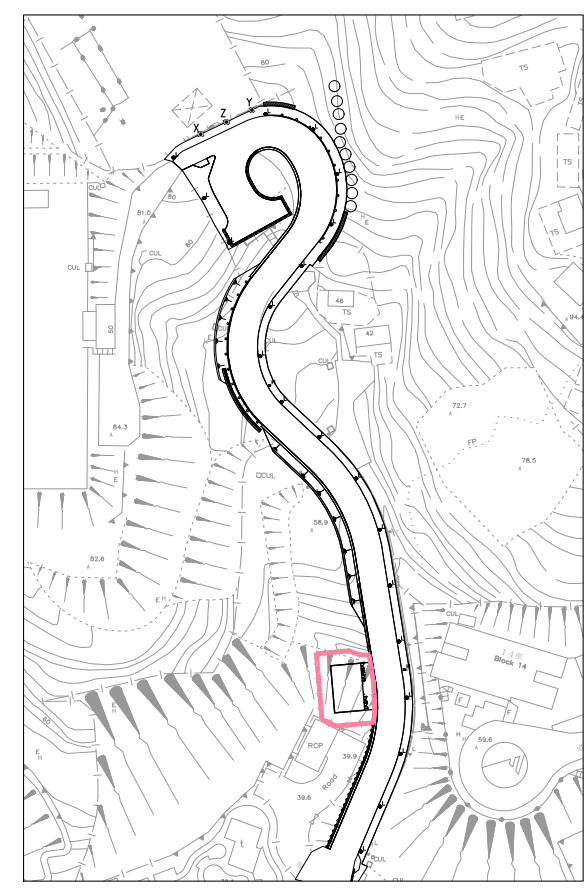
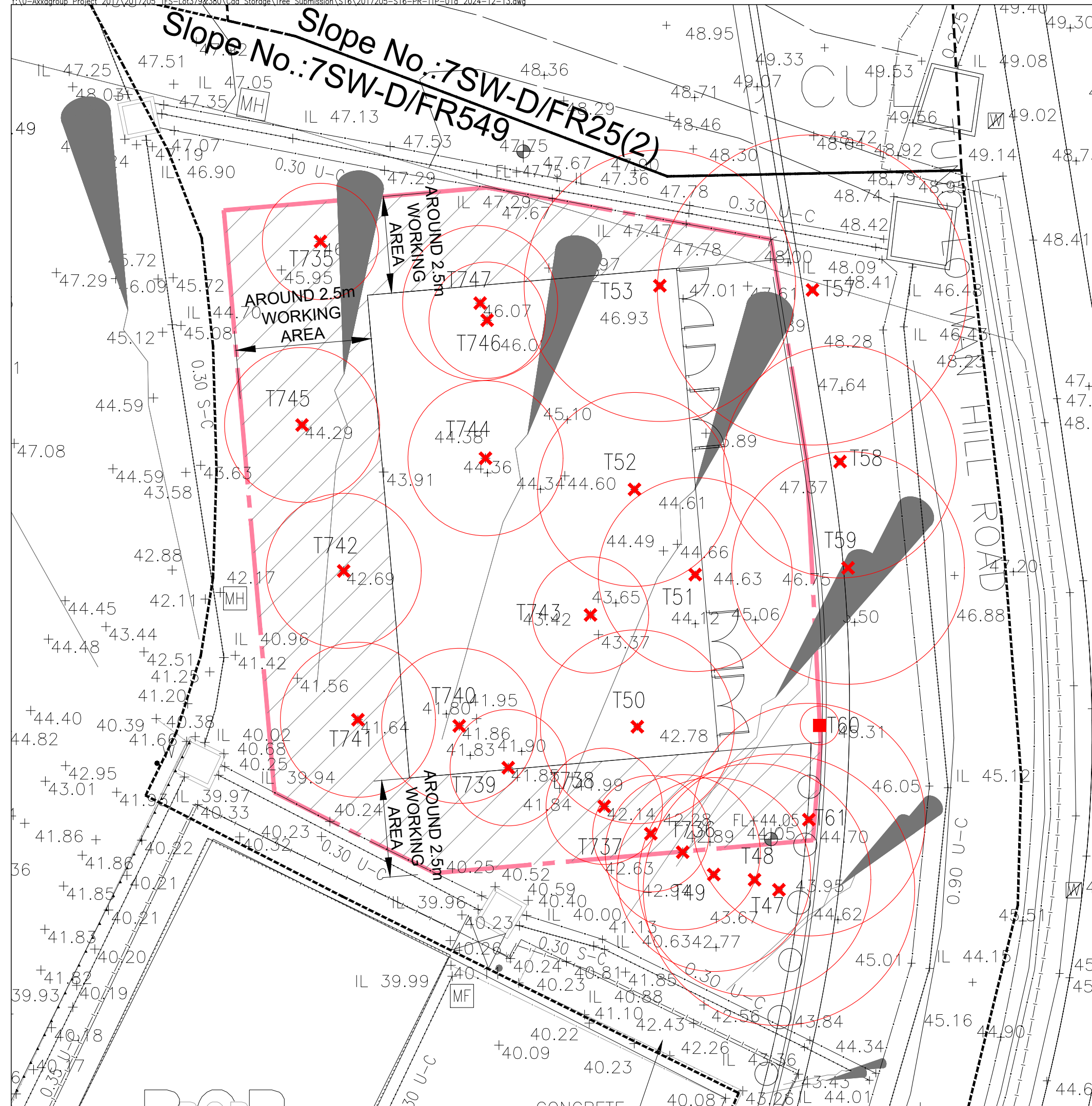
THE EXTENT OF THE SLOPE WITH A GRADIENT OF OVER 30 DEGREES

Section 16 Planning Application for Proposed Utility Installation for Private Project (Sump and Pump Station for Salt and Fresh Water System) in "Government, Institution or Community" Zone on Government Land in D.D. 186, Tung Lo Wan Hill Road, Sha Tin

Landscape Proposal

Dwg. No. : 2017205-S16-PR-LMP-01b
Date : FEB 2025
(A3-size)





KEY PLAN

LEGEND:

- APPLICATION SITE BOUNDARY
- WORKING AREA
- TREES PROPOSED TO BE FELLED (24 Nos.)
- DEAD TREE (1 No.)

GENERAL REVISION		
no.	description	date
A		

REVISION

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IT IS THE CONTRACTOR'S RESPONSIBILITY TO

- * use figured dimension in preference to scaling
- * verify all dimensions at the site
- * report all discrepancies to the landscape architect and agree before proceeding
- * determine location of all existing services prior to excavation

This drawing shall not be used for construction purposes unless signed by Landscape Architect

Date:

Approval:

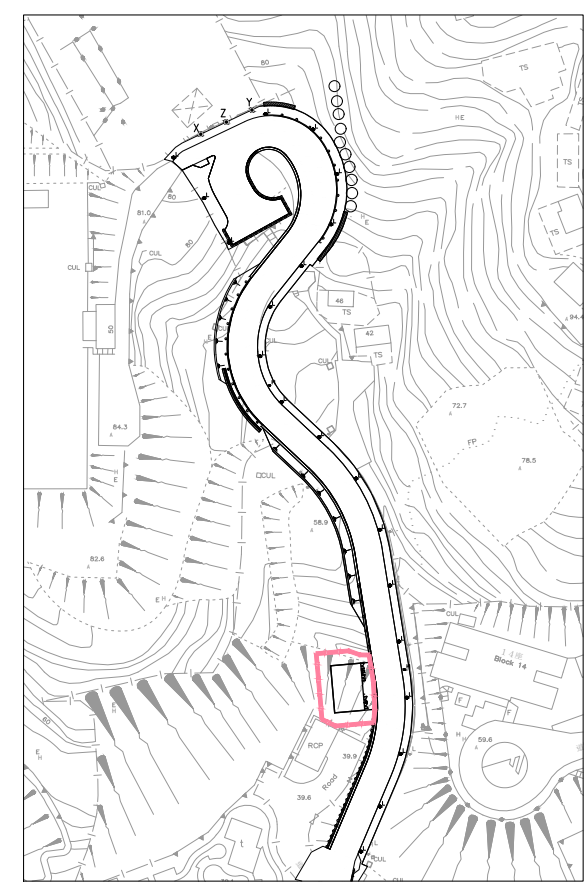
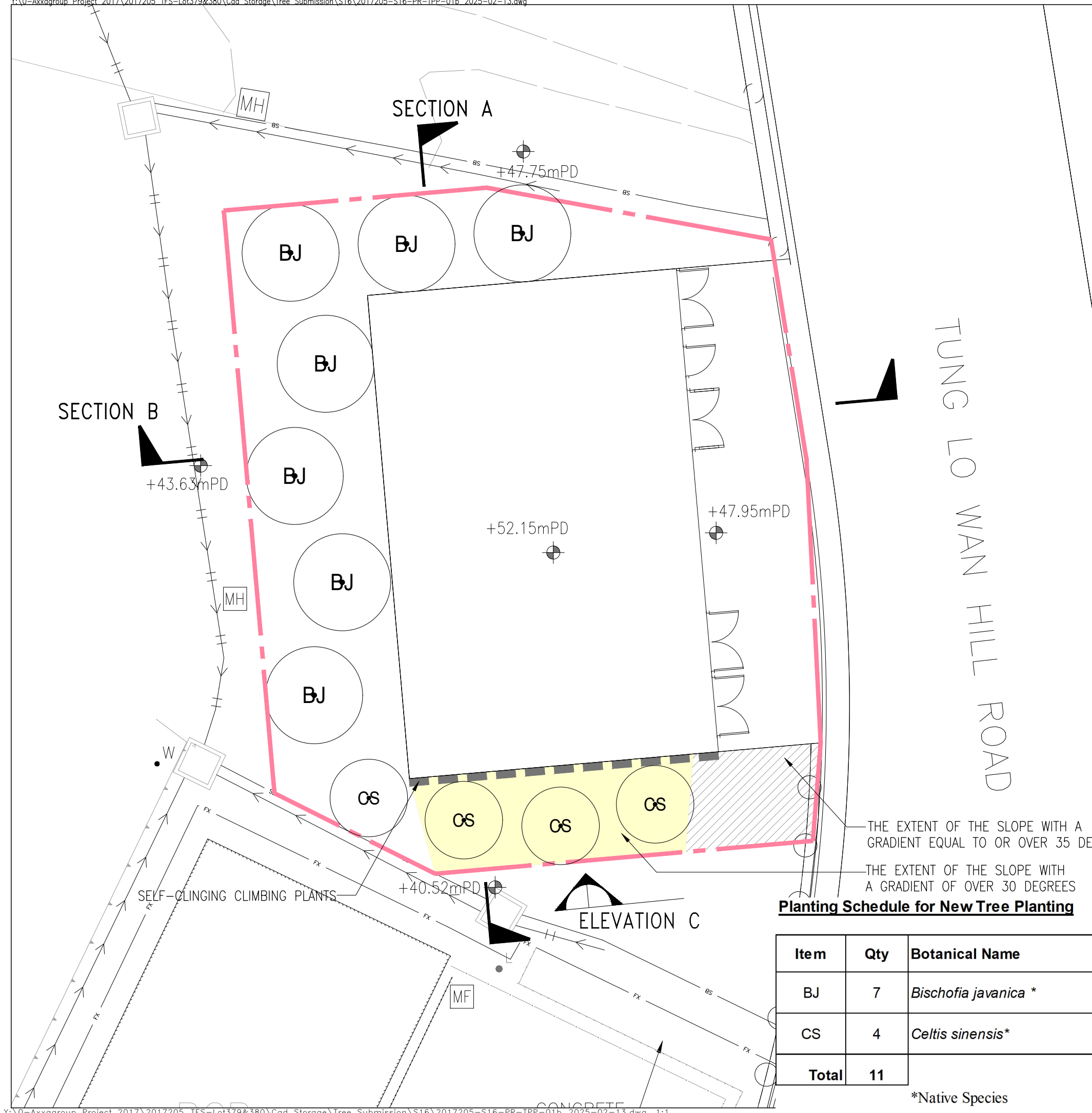
axxa group

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PROJECT:
 Section 16 Planning Application for Proposed Utility Installation for Private Project (Sump and Pump Station for Salt and Fresh Water System) in "Government, Institution or Community" Zone on Government Land in D.D. 186, Tung Lo Wan Hill Road, Sha Tin

DRAWING TITLE:
 TREE TREATMENT PLAN

Scale: 1:100	Drawing No.:
Date: AUG 2024	TTP-PR-01
Design: CL	
Drawn: LS	
Checked: CL	
Project No: 2017205	REV. A
CAD Ref.: 2017205-S16-PR-TTP-01	



KEY PLAN

LEGEND:

- APPLICATION SITE BOUNDARY
- (BJ) PROPOSED NEW TREES (11 Nos.)

B	GENERAL REVISION	
A	GENERAL REVISION	19/12/24
no.	description	date

REVISION

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Date:

Approval:

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DRAWING TITLE:
TREE PLANTING PLAN

Scale:	1:100	Drawing No.:	
Date:	AUG 2024	TPP-PR-01	REV. B
Design:	CL		
Drawn:	LS		
Checked:	CL	Project No:	2017205
CAD Ref.:		2017205-S16-PR-TPP-01	

THE EXTENT OF THE SLOPE WITH A GRADIENT EQUAL TO OR OVER 35 DEGREES

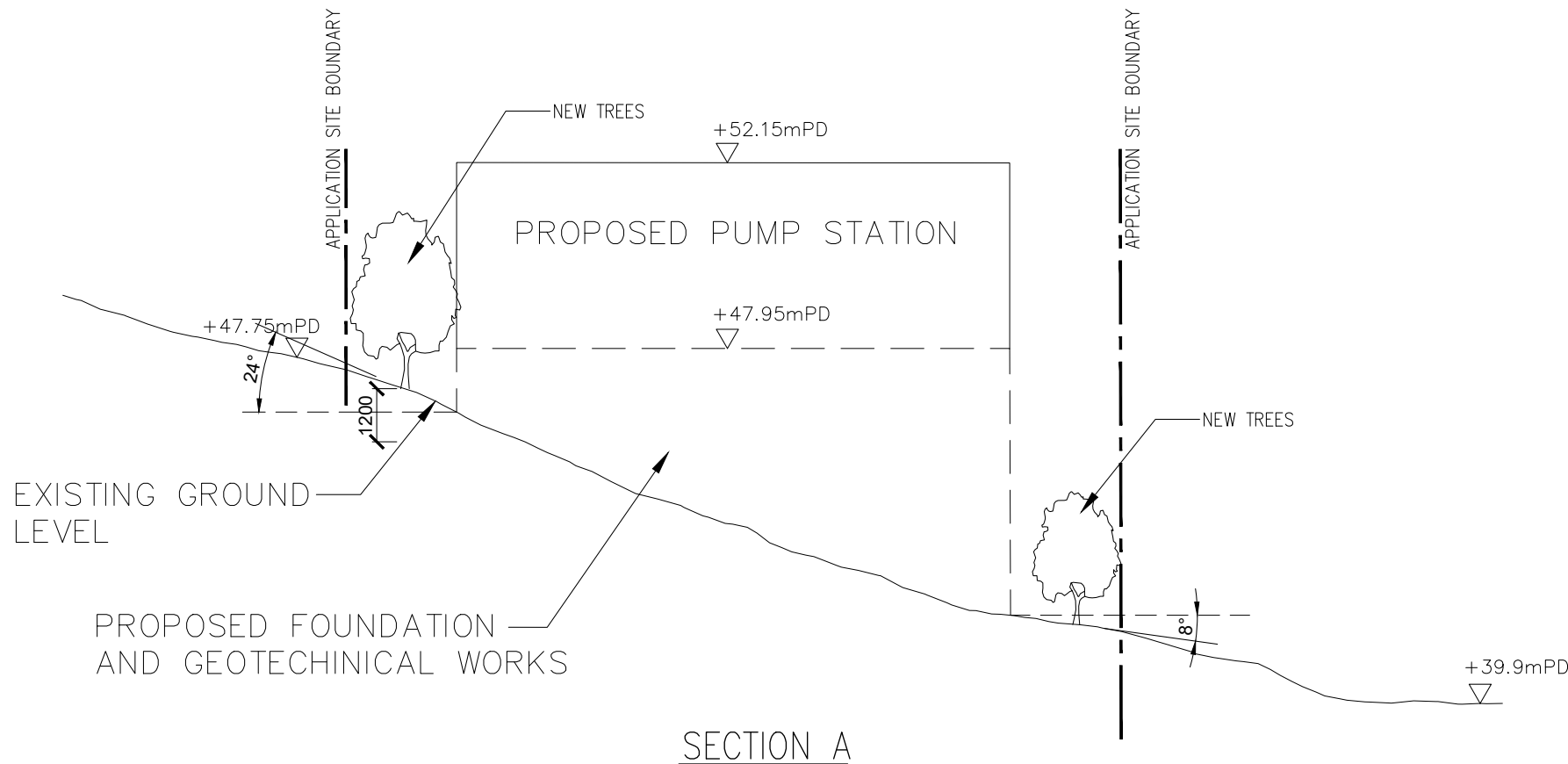
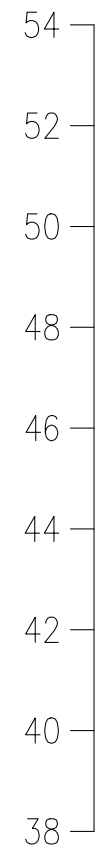
THE EXTENT OF THE SLOPE WITH A GRADIENT OF OVER 30 DEGREES

Planting Schedule for New Tree Planting

Item	Qty	Botanical Name	Chinese Name	Height (m)	Spread (m)
BJ	7	<i>Bischofia javanica</i> *	秋楓	Standard size (3-4m Height, 2-4m Spread)	
CS	4	<i>Celtis sinensis</i> *	朴樹	Light Standard size (2-3m Height, 2-4m Spread)	
Total	11				

*Native Species

ELEVATION
(+mPD)



SECTION A

LEGEND:

--- APPLICATION SITE BOUNDARY

no.	description	date
C	GENERAL REVISION	
B	GENERAL REVISION	19/12/24
A	GENERAL REVISION	10/12/24

REVISION

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 and Pump Station for Salt and Fresh Water
 System) in "Government, Institution or
 Community" Zone on Government Land in
 D.D. 186, Tung Lo Wan Hill Road, Sha Tin

DRAWING TITLE:
 SLOPE TREE
 PLANTING SECTION &
 ELEVATION

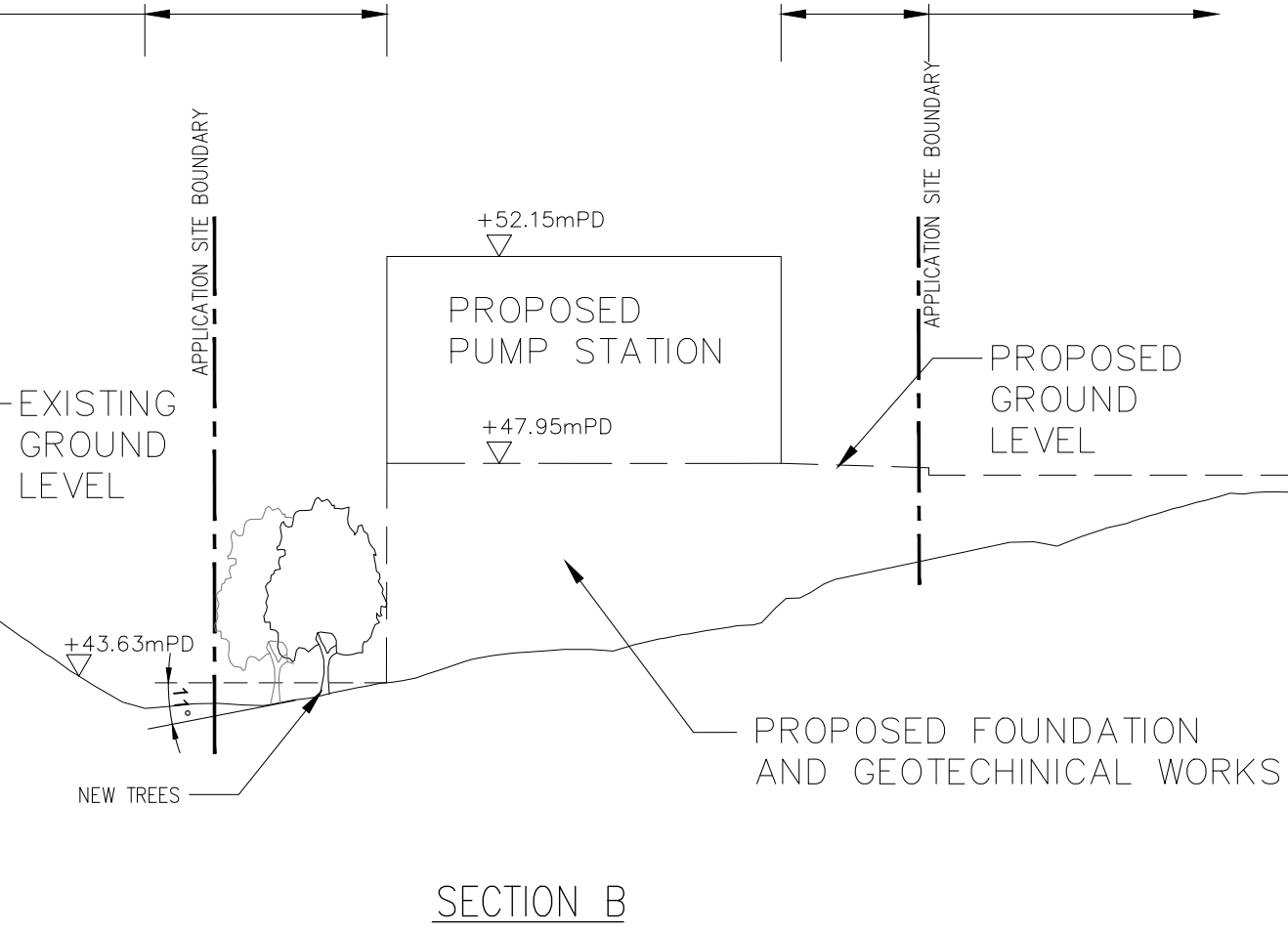
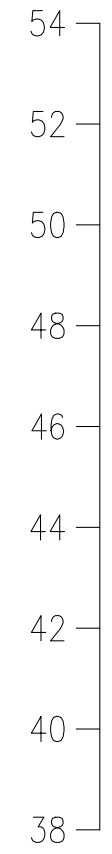
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Drawn:	LS		
Checked:	CL		
Project No:	2017205	REV.	C

CAD Ref.: 2017205-S16-PR-SEC-01

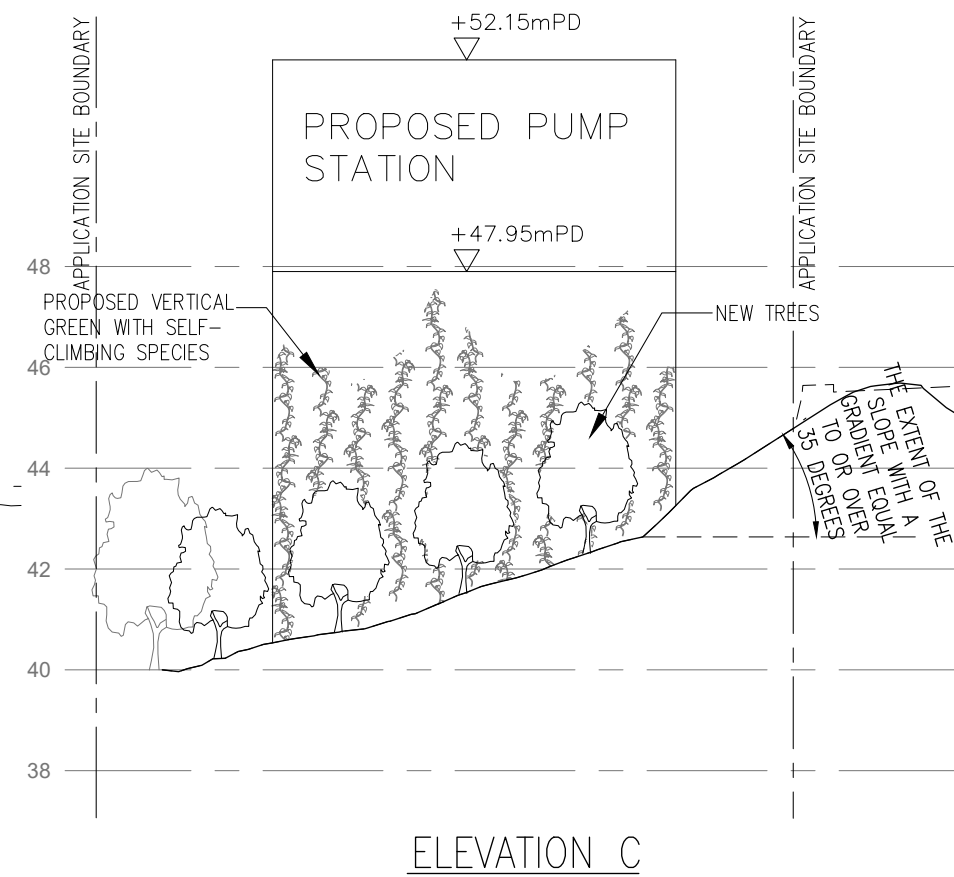
FEATURE NO. 7SW-D/C1014 7SW-D/FR549

TUNG LO WAN HILL ROAD
 FOOTPATH

ELEVATION
(+mPD)



SECTION B



ELEVATION C