

Environmental Permit No. EP-388/2010

Development of a Bathing Beach at Lung Mei, Tai Po

Independent Environmental Checker Verification


Reference Document/Plan

Document/ Plan to be Certified / Verified:	Landscape Plan (Revision 5)
Date of Report:	21 June 2021
Date received by IEC:	21 June 2021

Reference EP Condition / Updated EM&A Manual Requirement

Environmental Permit Condition / Updated EM&A Manual Reference	2.5
<p>The Permit Holder shall, at least one month before the commencement of construction of the Project, submit four hardcopies and one electronic copy of landscape plan to the Director for approval. The landscape plan shall show the locations, size, number and species of planting, design details, implementation programme, maintenance and management schedules, and drawings in the scale of 1:1000 or other appropriate scale showing the landscape and visual mitigation measures of the Project, in particular the landscape and compensatory planting and architectural and chromatic treatment of the beach building including the blank wall facing Ting Kok Road. Before submission to the Director, the landscape plan shall be certified by the ET Leader and verified by the IEC as conforming to the information and recommendations contained in the approved EIA report (Register No. AEIAR-123/2008).</p>	

IEC Verification

I hereby verify that the above referenced document/ plan complies with the above referenced condition / section of EP-388/2010 / Updated EM&A Manual	
Mr Terence Fong	Date: 22 June 2021
Independent Environmental Checker	

Our ref: P:\Projects\0206709 IEC for Lung Mei EM&A\02 Communications\03 Incoming\Landscape Plan

Our Ref: TCS00874/16/300/L0734

Civil Engineering and Development Department
Civil Engineering Office
Port Works Division
Projects Section 3
4/F, Civil Engineering and Development Building,
101 Princess Margaret Rd,
Homantin, Kowloon

Attn: Mr. CHAN Kam Fai

21 June 2021
By e-mail

Dear Sir,

Re: CEDD Contract No. CV/2012/05 - Bathing Beach at Lung Mei, Tai Po
Environmental Permit No. EP-388/2010
Landscape Plan (Rev.5)

With reference to the Landscape Plan (Rev.5) dated 21 June 2021, we have no adverse comments on the captioned submission. We herewith certify the Landscape Plan in accordance with Condition 2.5 of Environmental Permit No. EP-388/2010.

Should you have any queries, 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
TW/nh

c.c.

Welcome	Mr. William Lam	By email
IEC	Mr. Terence Fong/ Mr. Jovy Tam	By email

Development of a Bathing Beach at Lung Mei, Tai Po
Landscape Plan

Environmental Permit No. EP-388/2010

Title of Designated Project:

Development of a Bathing Beach at Lung Mei, Tai Po

LANDSCAPE PLAN

(REVISION 5)

21 JUNE 2021

DELIVERABLE

The general objective of the Landscape Plan is to mitigate and compensate landscape and visual impacts resulting from the development of a Bathing Beach at Lung Mei, Tai Po in accordance with the requirements of Development of a Bathing Beach at Lung Mei, Tai Po Environmental Permit No. EP-388/2010 Condition 2.5. In particular, the proposal aims to show the

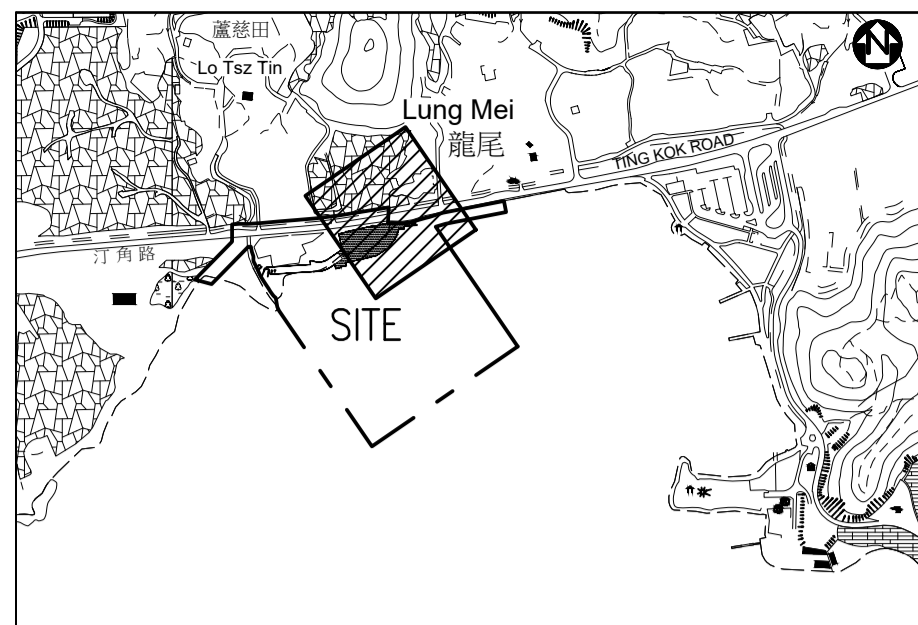
- locations, size, number and species of planting, design details, drawings in appropriate scale showing the landscape and visual mitigation measures of the Project (Annex A)
- implementation programme (Annex B);
- maintenance and management schedules (Annex C)
- comparison between current landscape plan and the one under Review Report for Final EIA Assessment Study (January 2010) (Annex D)
- Mangrove Seedling Planting Proposal approved under Condition 3.12 (Annex E)

ANNEX A

(locations, size, number and species of planting, design details, drawings in appropriate scale showing the landscape and visual mitigation measures of the Project)

Summary of EIA landscape mitigation measures considered in the Drawings

Drawing no.	Drawing Title	landscape mitigation measures in revised landscape mitigation plan
AB/5465/EW102c for planting at beach building PW-1205-210D for planting at beach	Ground Floor and Lower Ground Floor Planting Plan – Beach Building	1, 3, 8, 10
PW-1205-202F (same as AB/5465/EW103d)	Ground Floor Planting Plan – Sun deck	1, 2, 3, 8, 9, 10
AB/5465/EW104a	Lower Ground Floor Roof & Roof Planting Plan – Beach Building	3, 4
AB/5465/EW105c	Ground Floor Shrub Plan – Beach Building	1, 3, 8, 9
PW-1205-211C (same as AB/5465/EW106b)	Ground Floor Shrub Plan – Sun Deck	1, 2, 3, 8, 9, 10
AB/5465/EW107a	Ground Floor Soiling Plan – Beach Building	1, 3, 8, 9
PW-1205-206D (same as AB/5465/EW108b)	Ground Floor Soiling Plan – Sun Deck	1, 2, 3, 8, 9, 10
AB/5465/EW109a	Lower Ground Floor & Roof Soiling Plan – Beach Building	3, 4
PW-1205-203B	Groyne Planting Plan	3
PW-1205-204E	Eastern Box Culvert and Western Box Culvert Planting Plans	1, 3, 6, 10
PW-1205-207A	Groyne Soiling Plan	3
PW-1205-208C	Eastern Box Culvert and Western Box Culvert Soiling Plans	1, 3, 6
PW-1205-401D	Layout Plan of Eastern Groyne	5
PW-1205-402F	Details of Eastern Groyne	5
PW-1205-403E	Layout Plan of Western Groyne	5
PW-1205-404F	Details of Western Groyne	5



LOCATION PLAN SCALE 1:10,000

TREE PLANTING SCHEDULE FOR BEACH BUILDING ON GROUND FLOOR

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (HT x SP x DBH) (mm)	SPACING	QUANTITY	REMARKS
PLU.RUB	PLUMERIA RUBRA	紅花雞蛋花	2000 X 2500 X 60	as shown	5	
PLU.RUB3	PLUMERIA RUBRA 'ACUTIFOLIA'	黃花雞蛋花	2750 X 1500 X 80	as shown	2	
TER.MAN	TERMINALIA MANTALY VARIEGATA	錦紫櫻仁	3000 X 2500 X 85	as shown	18	

NEW TREE BY OTHERS

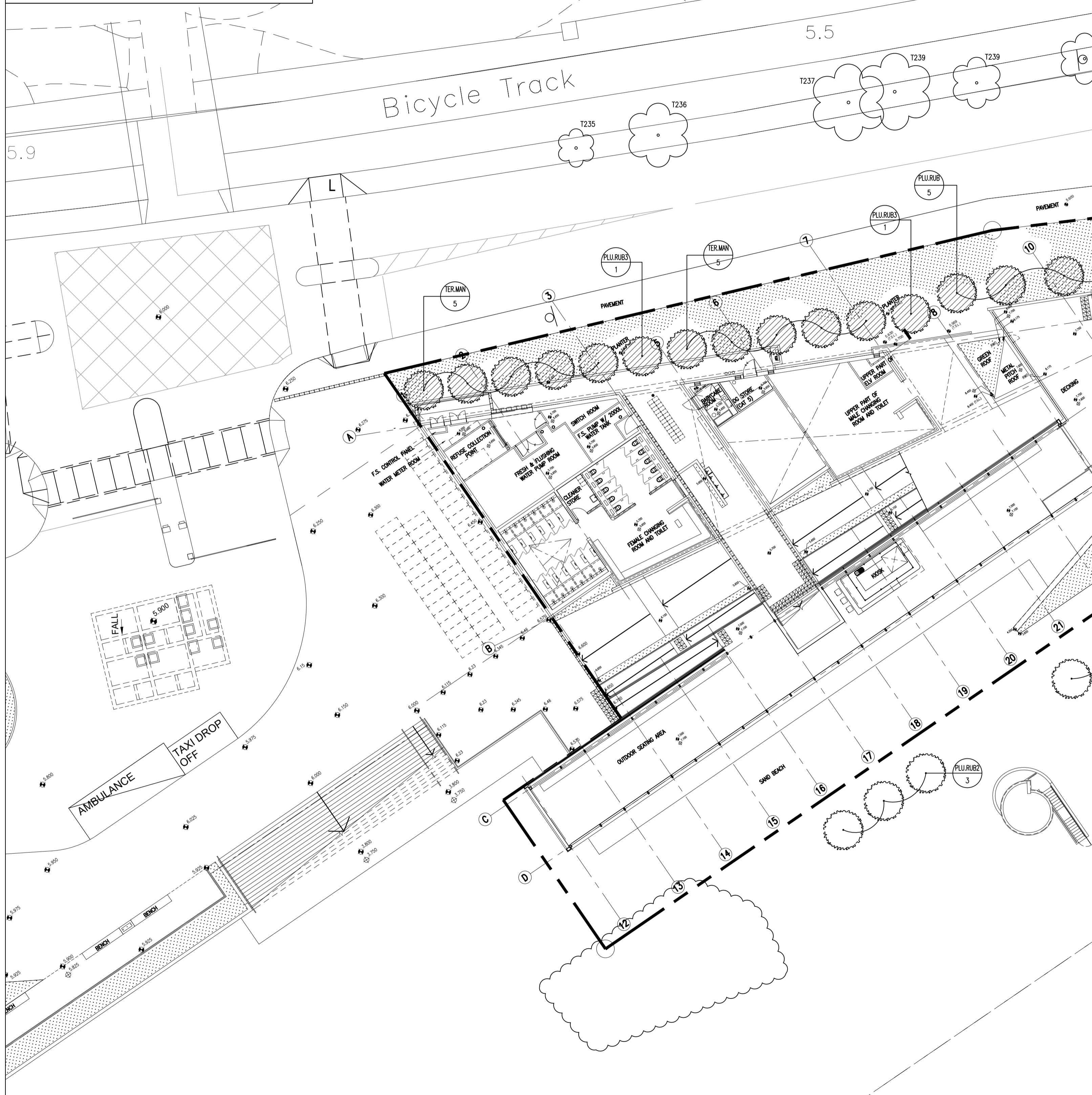
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (HT x SP x DBH) (mm)	SPACING	QUANTITY	REMARKS
HIB.TIL	HIBISCUS TILACEUS	芙蓉	2750 X 1500 X 45	as shown	4	
PLU.RUB2	PLUMERIA RUBRA	紅花雞蛋花	2750 X 1500 X 45	as shown	10	
TER.CAT	TERMINALIA CATAPPA	樹桐	2750 X 1500 X 45	as shown	3	

- NOTES
- CONTRACTOR SHALL SUBMIT PHOTO FOR INDIVIDUAL SPECIES WITH DIMENSIONS SHOWN FOR ARCHITECT'S REVIEW.
 - NURSERY VISIT IN HONG KONG MAY BE REQUIRED TO CHECK PLANT QUALITY BEFORE DELIVERY TO THE SITE.
 - EXACT SETTING OUT TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF PLANTING WORK.
 - THE AREA WITHIN 250mm FROM EDGE OF TREE TRUNK SHALL BE FREE FROM VEGETATION AND MULCH.

- LEGENDS:
- T244 (circle with dot) EXISTING TREE W/ TREE NUMBER
 - (circle with diagonal lines) NEW TREE FOR THIS PROJECT
 - (circle with dot) NEW TREE BY OTHERS
 - SITE BOUNDARY

no.	date	description	initial
C	06/2021	3. REVISED AS CLOUDED.	SLA/1
-	04/2021	AS PLANTED DRAWING	SIGNED SLA/1
B	11/2020	2. REVISED AS CLOUDED.	SIGNED SLA/1
A	11/2020	1. REVISED AS CLOUDED.	SIGNED SLA/1

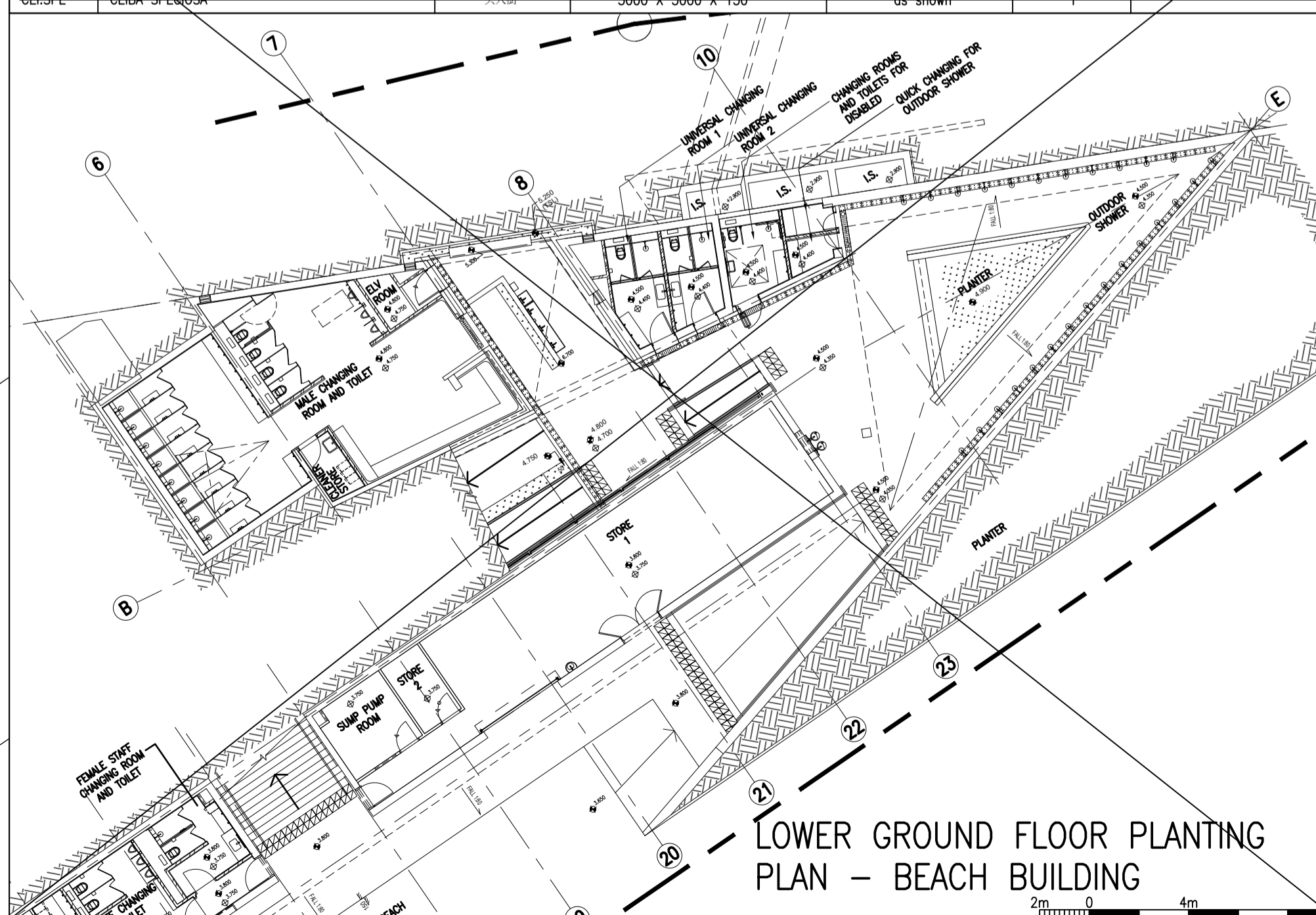
REVISION	name	date
designed	J.S.Y. LEUNG	04/2020
drawn	K.W. WONG	04/2020
checked	K.M. HO	04/2020
approved		
Chief Landscape Architect	SIGNED T. MUI (CLA)	04/2020
Senior Landscape Architect	SIGNED E. LEE (SLA/1)	04/2020
Project Landscape Architect	SIGNED J.S.Y. LEUNG (LA/6)	04/2020



GROUND FLOOR PLANTING PLAN – BEACH BUILDING

TREE PLANTING SCHEDULE FOR BEACH BUILDING ON LOWER GROUND FLOOR

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (HT x SP x DBH) (mm)	SPACING	QUANTITY	REMARKS
GEL.SPE	CEIBA SPECIOSA	大樹	5000 X 3000 X 150	as shown	1	



LOWER GROUND FLOOR PLANTING PLAN – BEACH BUILDING

contract no. TC F511

file no. ASD51/5465/RB/RCC/904

works order no. ASD 012338

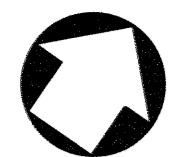
contract DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title GROUND FLOOR AND LOWER GROUND FLOOR PLANTING PLAN – BEACH BUILDING

drawing no. AB/5465/EW102c scale 1:200 @A1 1:400 @A3

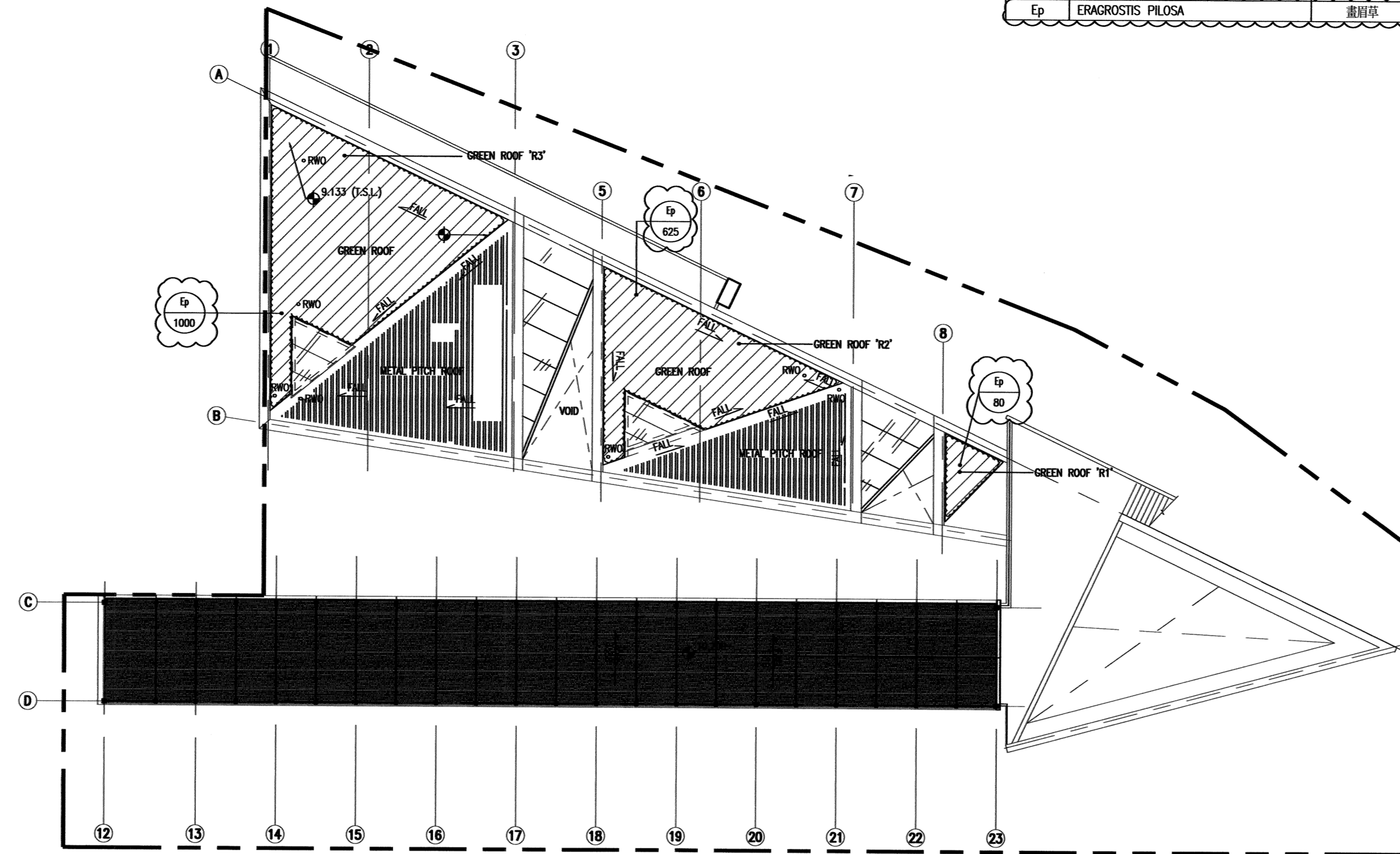
office ARCHITECTURAL BRANCH

ARCHITECTURAL SERVICES DEPARTMENT



PLANTING SCHEDULE FOR BEACH BUILDING ON ROOF

GROUNDCOVER						
CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY
Ep	ERAGROSTIS PILOSA	畫眉草	500	400	350	1705



NOTES

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- EXACT SETTING OUT TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF PLANTING WORK.
- QUANTITIES SHOWN ARE INDICATIVE AND SHALL BE VERIFIED.
- THE AREA WITHIN 250MM DIAMETER AT THE BASE OF TREE SHALL BE FREE FROM VEGETATION AND MULCH.
- ALL SHRUBS AND GROUNDCOVER SHALL BE PLANTED ACCORDING TO THE SPACING AS SPECIFIED. QUANTITY SHOWN ON DRAWINGS IS INDICATIVE. SHRUBS SHALL BE PLANTED IN STAGGERED.
- SUBMIT SAMPLE, SUPPLY, TAKE DELIVERY, SPREAD AND LEVEL 50mm THICK OF PINE BARK MULCH TO ALL PLANTING AREAS, IN ACCORDANCE WITH GS CLAUSE 25.29(e). PINE BARK MULCH SHALL COMPLY WITH GS 25.20(b).

LEGENDS:

- SHRUB PLANTING
- PINE BARK MULCH IN COMPLIANCE WITH GS 25.20(b)
- SITE BOUNDARY
- NAME OF SPECIES (FOR ArchSD)
QUANTITY OF SPECIES (FOR ArchSD)
- NAME OF SPECIES (FOR CEDD)
QUANTITY OF SPECIES (FOR CEDD)

ROOF PLANTING PLAN – BEACH BUILDING

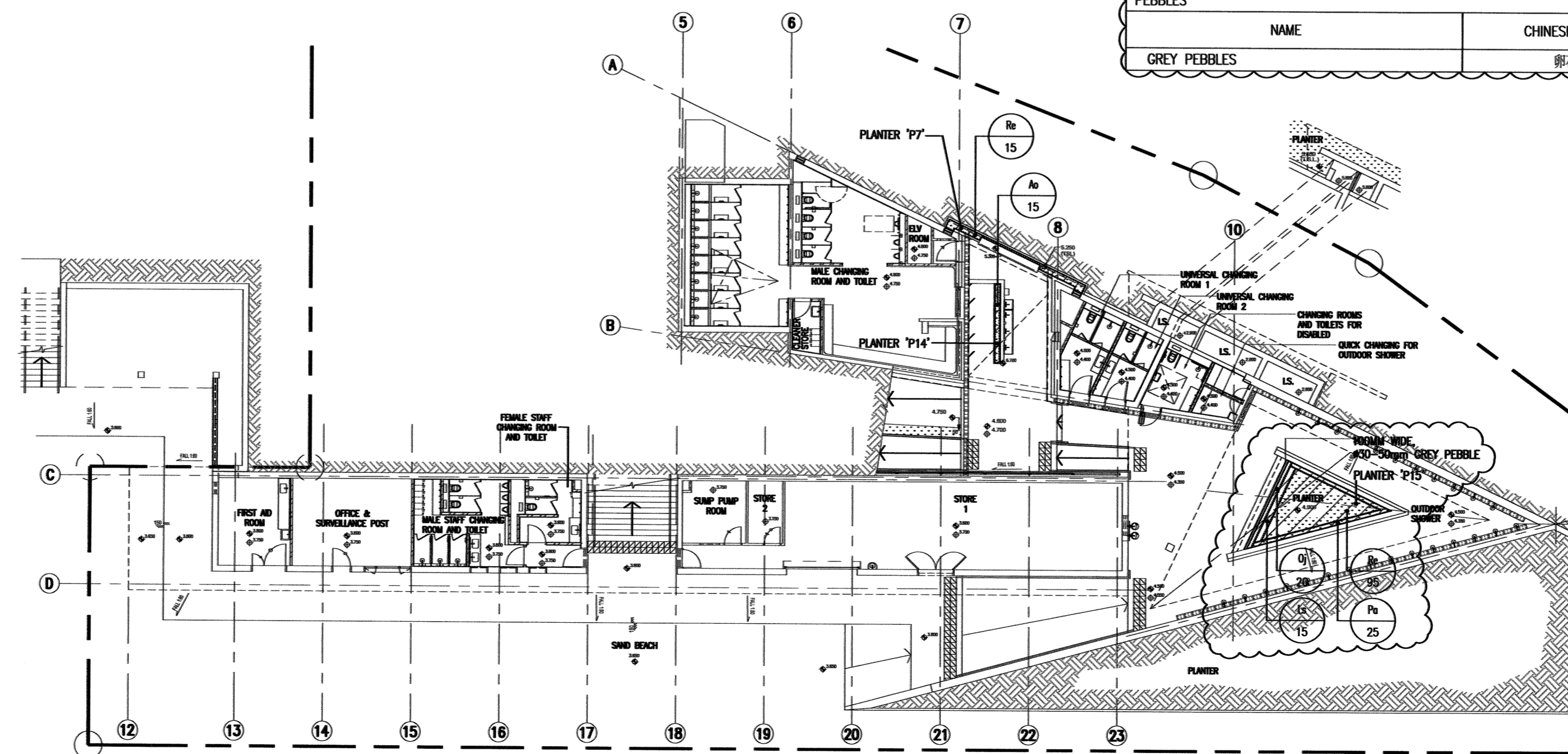


PLANTING SCHEDULE FOR BEACH BUILDING ON LOWER GROUND FLOOR

SHRUBS						
CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY
Re	RHAPIS EXCELSA	簕竹	1000	350	350	95
Ls	LIGUSTRUM SINENSE 'VARIEGATUM'	花葉女貞	400	400	350	15
Pa	PENNISETUM ALOPECUROIDES	銀髮草	500	400	350	25

GROUNDCOVER						
CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY
Ag	AGLAIA ODORATA	赤牡丹	350	300	300	15
Oj	OPHROPOGON JABURAU	花鵝泊蘭草	150	200	200	20

PEBBLES			
NAME	CHINESE NAME	DIAMETER (mm)	QUANTITY (m sq.)
GREY PEBBLES	卵石	30-50	0.5



no.	date	description	initial
A	11/2020	1. REVISED AS CLOUDED.	SLA/1
			LA/6

REVISION	
name	date
designed	J.S.Y. LEUNG 04/2020
drawn	K.W. WONG 04/2020
checked	K.M. HO 04/2020
approved	
Chief Landscape Architect	SIGNED: T. MU (CLA) 04/2020
Senior Landscape Architect	SIGNED: E. LEE (SLA/1) 04/2020
Project Landscape Architect	SIGNED: S.Y. LEUNG (LA/6) 04/2020
contract no.	TC FS11
file no.	AS051/5465/RB/RCC/904
works order no.	ASD 012338

contract
DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title
LOWER GROUND FLOOR & ROOF PLANTING PLAN – BEACH BUILDING

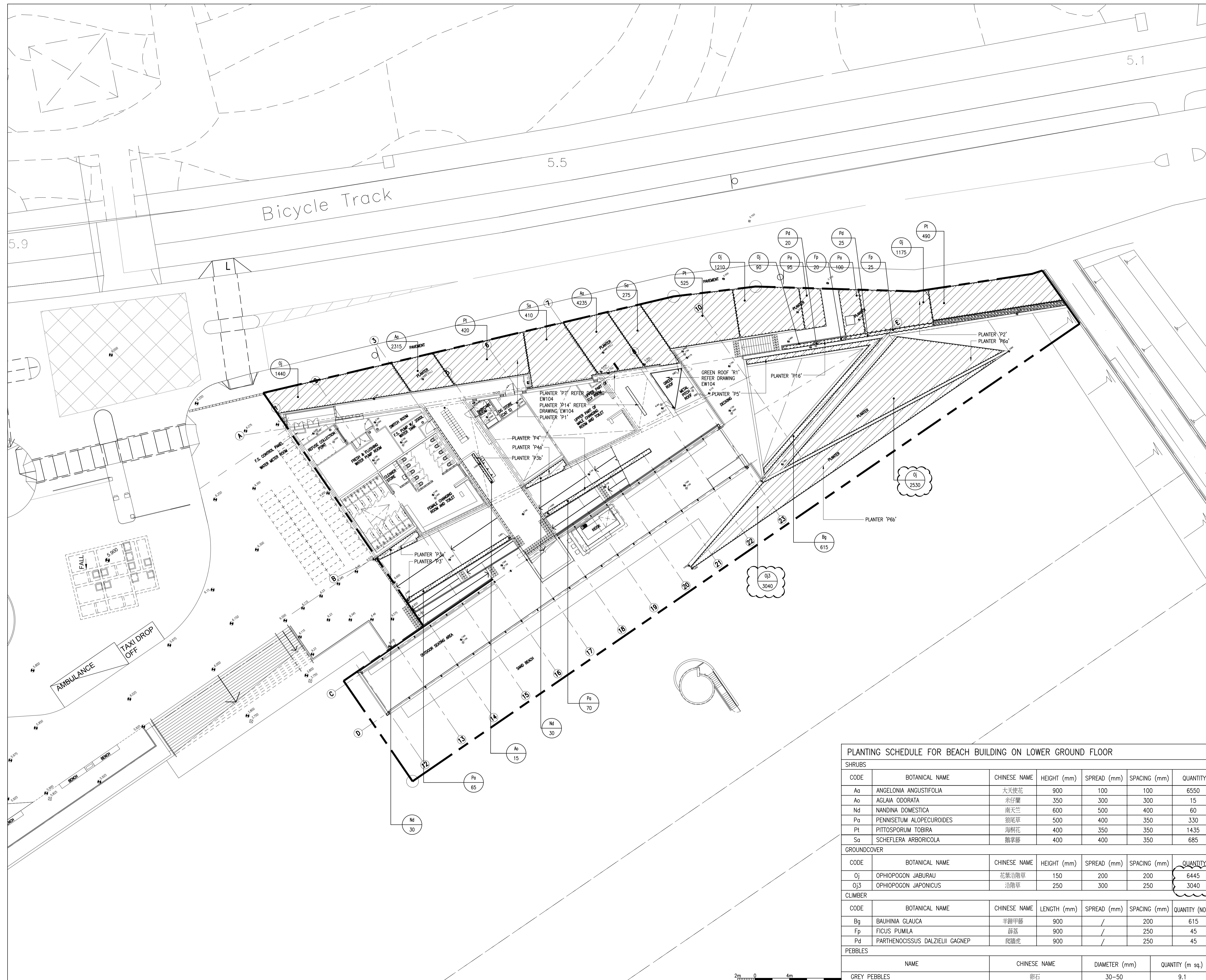
drawing no.
AB/5465/EW104a

scale
 1:200 @A1
 1:400 @A3

office
ARCHITECTURAL BRANCH



LOWER GROUND FLOOR PLANTING PLAN – BEACH BUILDING



- NOTES
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LEGENDS:

- SHRUB PLANTING
- 30MM THICK GREY PEBBLES (30-50MM DIAMETER)
- SITE BOUNDARY
- NAME OF SPECIES (FOR ArchSD)
QUANTITY OF SPECIES (FOR ArchSD)
- NAME OF SPECIES (FOR CEDD)
QUANTITY OF SPECIES (FOR CEDD)

no.	date	description	initial
C	04/2021	AS PLANTED DRAWING	SLA/1 LA/6
B	11/2020	2. REVISED AS CLOUDED.	SIGNED SLA/1 SIGNED LA/6
A	11/2020	1. REVISED AS CLOUDED.	SIGNED SLA/1 SIGNED LA/6

REVISION

name	date
designed	J.S.Y. LEUNG 04/2020
drawn	K.W. WONG 04/2020
checked	K.M. HO 04/2020
approved	
Chief Landscape Architect	SIGNED T. MUI (CLA) 04/2020
Senior Landscape Architect	SIGNED E. LEE (SLA/1) 04/2020
Project Landscape Architect	SIGNED J.S.Y. LEUNG (LA/6) 04/2020

contract no.	TC F511
file no.	ASD51/5465/RB/RCC/904
works order no.	ASD 012338
contract	DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title
GROUND FLOOR SHRUB PLAN – BEACH BUILDING

drawing no.	AB/5465/EW105c	scale	1:200 @A1
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office
ARCHITECTURAL BRANCH



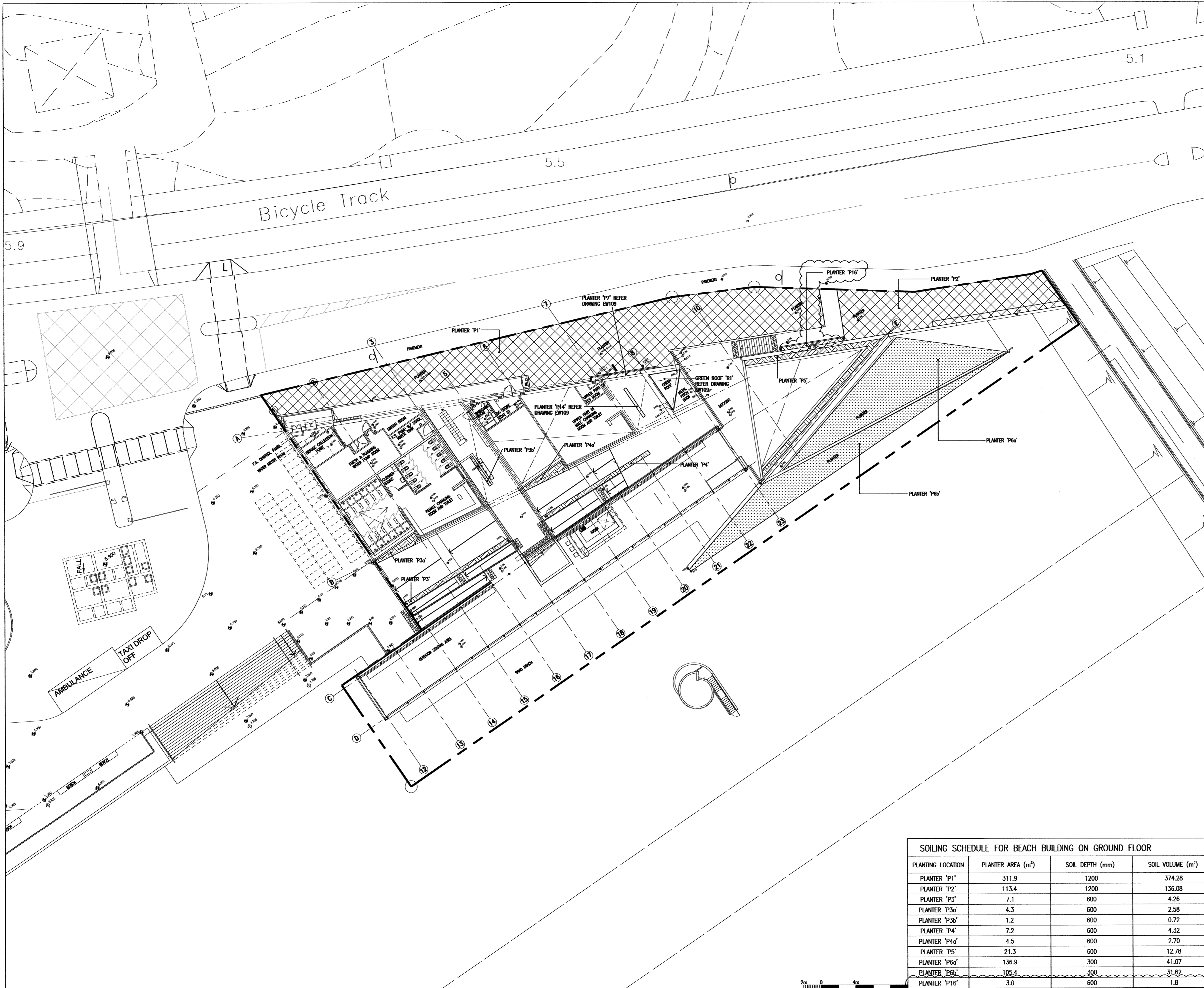
PLANTING SCHEDULE FOR BEACH BUILDING ON LOWER GROUND FLOOR

CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY
Aa	ANGELONIA ANGUSTIFOLIA	大天使花	900	100	100	6550
Ao	AGLAIA ODORATA	米仔蘭	350	300	300	15
Nd	NANDINA DOMESTICA	南天竺	600	500	400	60
Pa	PENNISETUM ALOPECUROIDES	狼尾草	500	400	350	330
Pt	PITTIOSPORUM TOBIRA	海桐花	400	350	350	1435
Sa	SCHEFLERA ARBORICOLA	鵝掌藤	400	400	350	685

CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY
Oj	OPHIPOGON JABURAU	花葉沿階草	150	200	200	6445
Oj3	OPHIPOGON JAPONICUS	沿階草	250	300	250	3040

CODE	BOTANICAL NAME	CHINESE NAME	LENGTH (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY (NOS.)
Bg	BAUHINIA GLAUCA	羊蹄甲藤	900	/	200	615
Fp	FICUS PUMILA	薔荔	900	/	250	45
Pd	PARTHENCISSUS DALZIELII GAGNEP	爬牆虎	900	/	250	45

NAME	CHINESE NAME	DIAMETER (mm)	QUANTITY (m sq.)
GREY PEBBLES	卵石	30-50	9.1



- NOTES
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- LEGENDS:
- SITE BOUNDARY
 - BACKFILL 1200mm SOIL-MIX
 - BACKFILL 600mm SOIL-MIX
 - BACKFILL 300mm SOIL-MIX
 - BACKFILL 200mm SOIL-MIX

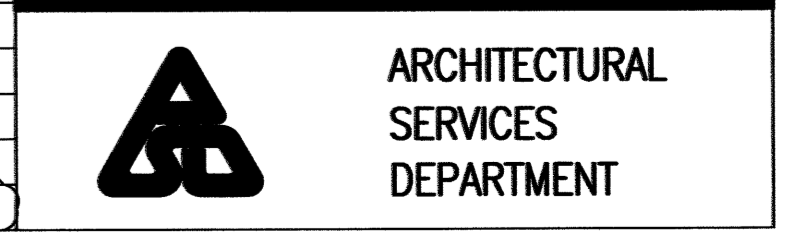
A	11/2020	1. REVISED AS CLOUDED.	SLA/1 LA/6
no.	date	description	initial
REVISION			
designed		J.S.Y. LEUNG	04/2020
drawn		K.W. WONG	04/2020
checked		K.M. HO	04/2020
approved			
Chief Landscape Architect	SIGNED	T. MUI (CLA)	04/2020
Senior Landscape Architect	SIGNED	E. LEE (SLA/1)	04/2020
Project Landscape Architect	SIGNED	J.S.Y. LEUNG (LA/6)	04/2020
contract no.	TC F311		
file no.	ASD51/5465/RB/RCC/904		
works order no.	ASD 012338		

contract
DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title
GROUND FLOOR SOILING PLAN – BEACH BUILDING

drawing no. **AB/5465/EW107a** scale **1:200 @A1**

office
ARCHITECTURAL BRANCH

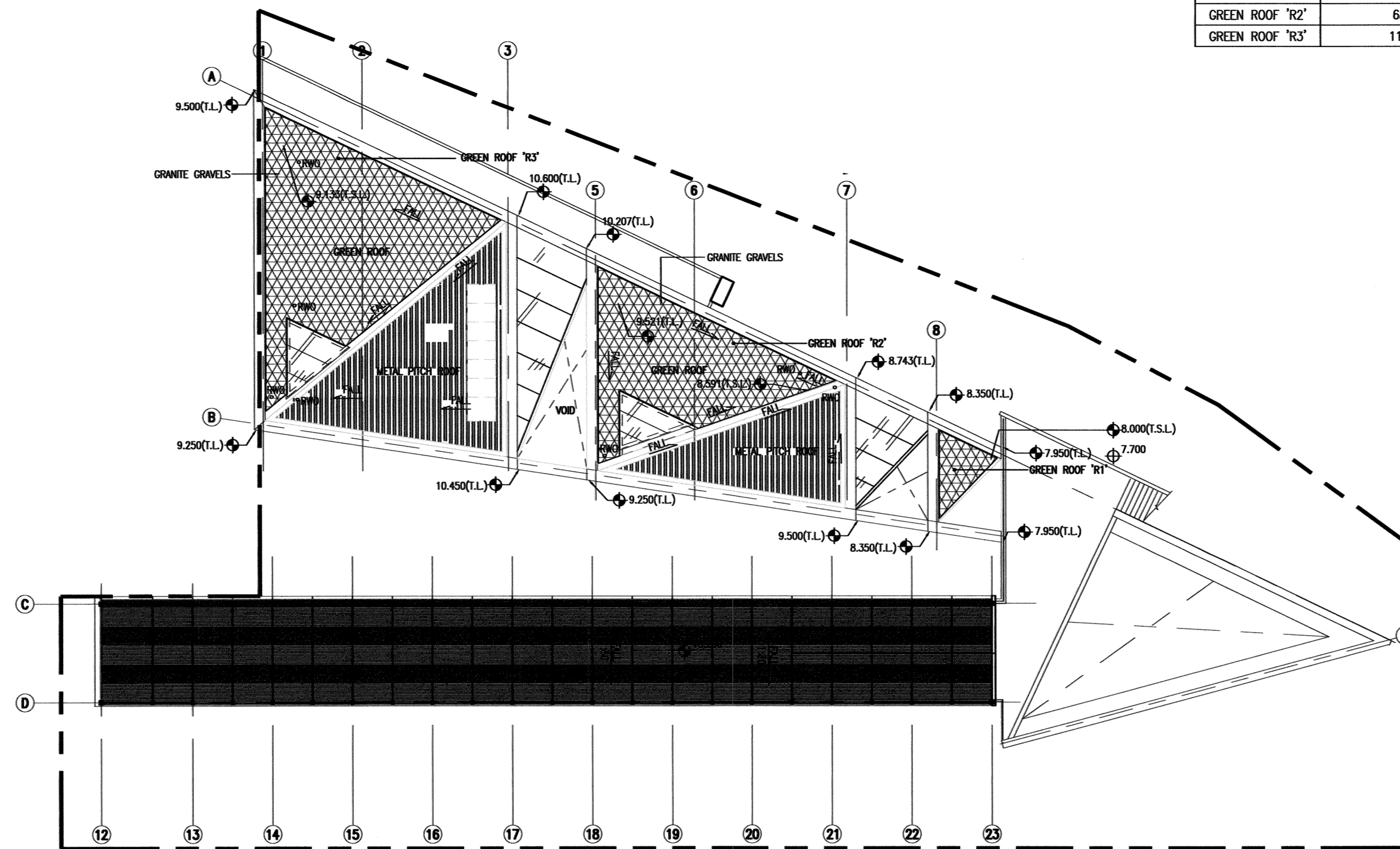


PLANTING LOCATION	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
PLANTER 'P1'	311.9	1200	374.28
PLANTER 'P2'	113.4	1200	136.08
PLANTER 'P3'	7.1	600	4.26
PLANTER 'P3a'	4.3	600	2.58
PLANTER 'P3b'	1.2	600	0.72
PLANTER 'P4'	7.2	600	4.32
PLANTER 'P4a'	4.5	600	2.70
PLANTER 'P5'	21.3	600	12.78
PLANTER 'P6a'	136.9	300	41.07
PLANTER 'P6b'	105.4	300	31.62
PLANTER 'P16'	3.0	600	1.8

SOILING SCHEDULE FOR BEACH BUILDING ON ROOF

PLANTER LOCATION	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
GREEN ROOF 'R1'	8.4	200	1.68
GREEN ROOF 'R2'	68.6	200	13.71
GREEN ROOF 'R3'	110.6	200	22.11

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- SITE BOUNDARY
- ▨ BACKFILL 1200mm SOIL-MIX
- ▩ BACKFILL 600mm SOIL-MIX
- ▧ BACKFILL 300mm SOIL-MIX
- ▦ BACKFILL 200mm SOIL-MIX

A	1/2020	1. REVISED AS CLOUDED.	SLA/1
no.	date	description	initial

REVISION		
no.	description	initial
designed	J.S.Y. LEUNG	04/2020
drawn	K.W. WONG	04/2020
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contract no.	TC F511
file no.	ASD51/5465/RB/RCC/904
works order no.	ASD 012338

contract
DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title
LOWER GROUND FLOOR & ROOF SOILING PLAN - BEACH BUILDING

drawing no.	scale
AB/5465/EW109a	1:200 @A1

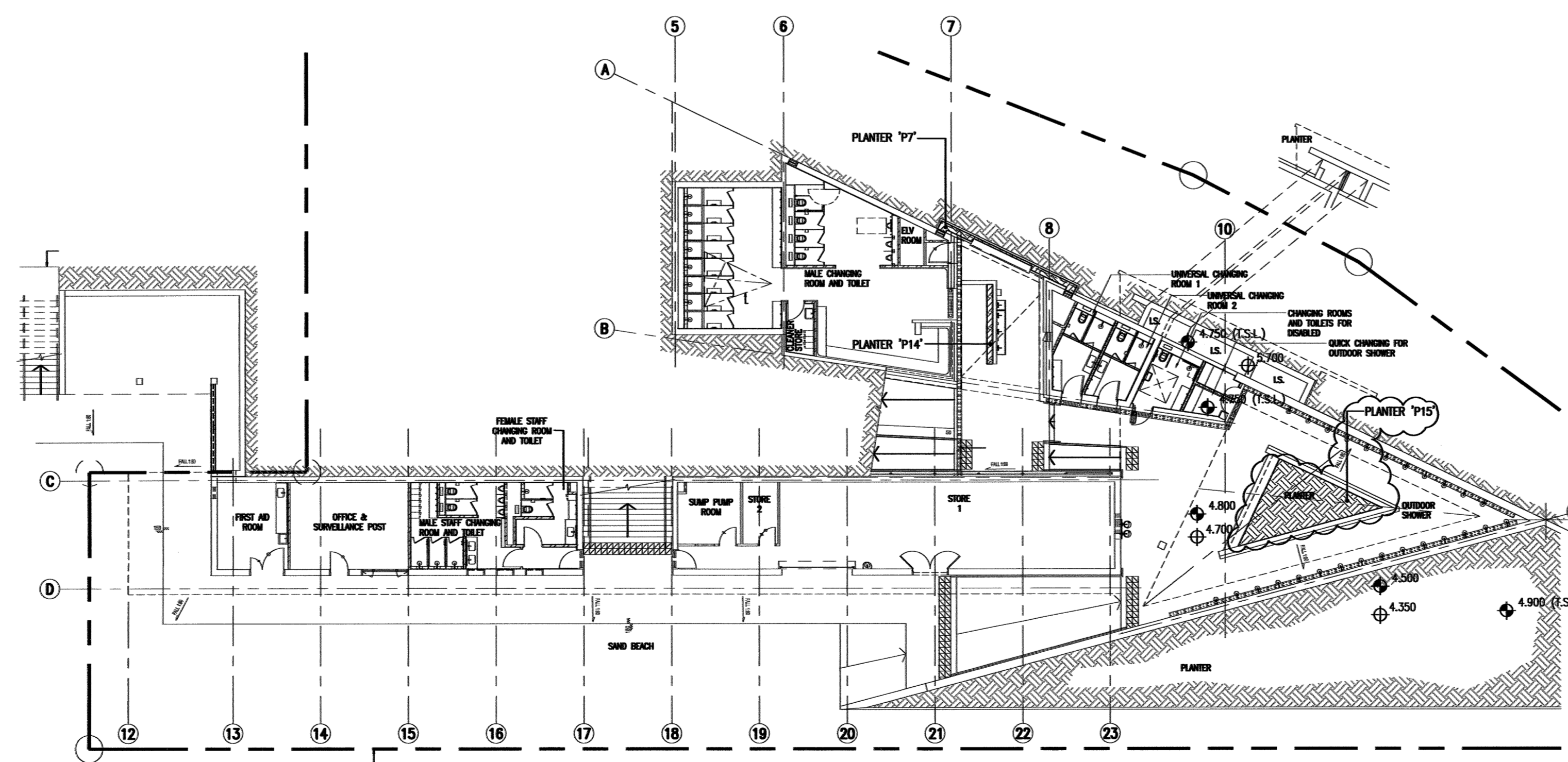
office
ARCHITECTURAL BRANCH



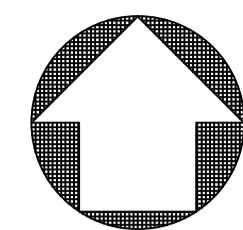
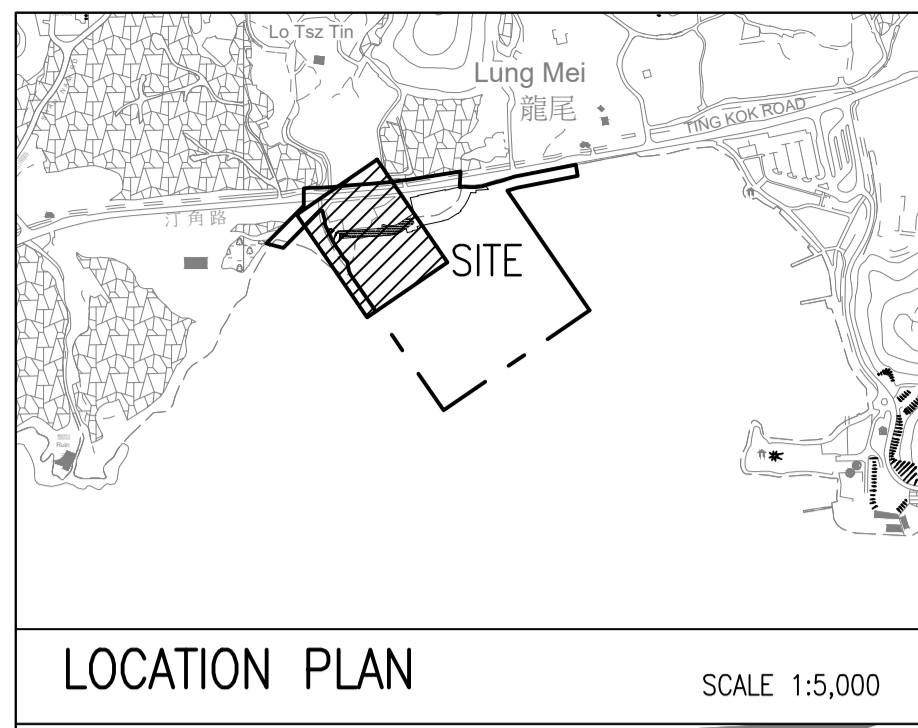
ROOF SOILING PLAN - BEACH BUILDING

SOILING SCHEDULE FOR BEACH BUILDING ON LOWER GROUND FLOOR

PLANTER LOCATION	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
PLANTER 'P7'	1.8	600	1.08
PLANTER 'P14'	1.2	600	0.72
PLANTER 'P15'	14.4	600	8.64



LOWER GROUND FLOOR SOILING PLAN - BEACH BUILDING

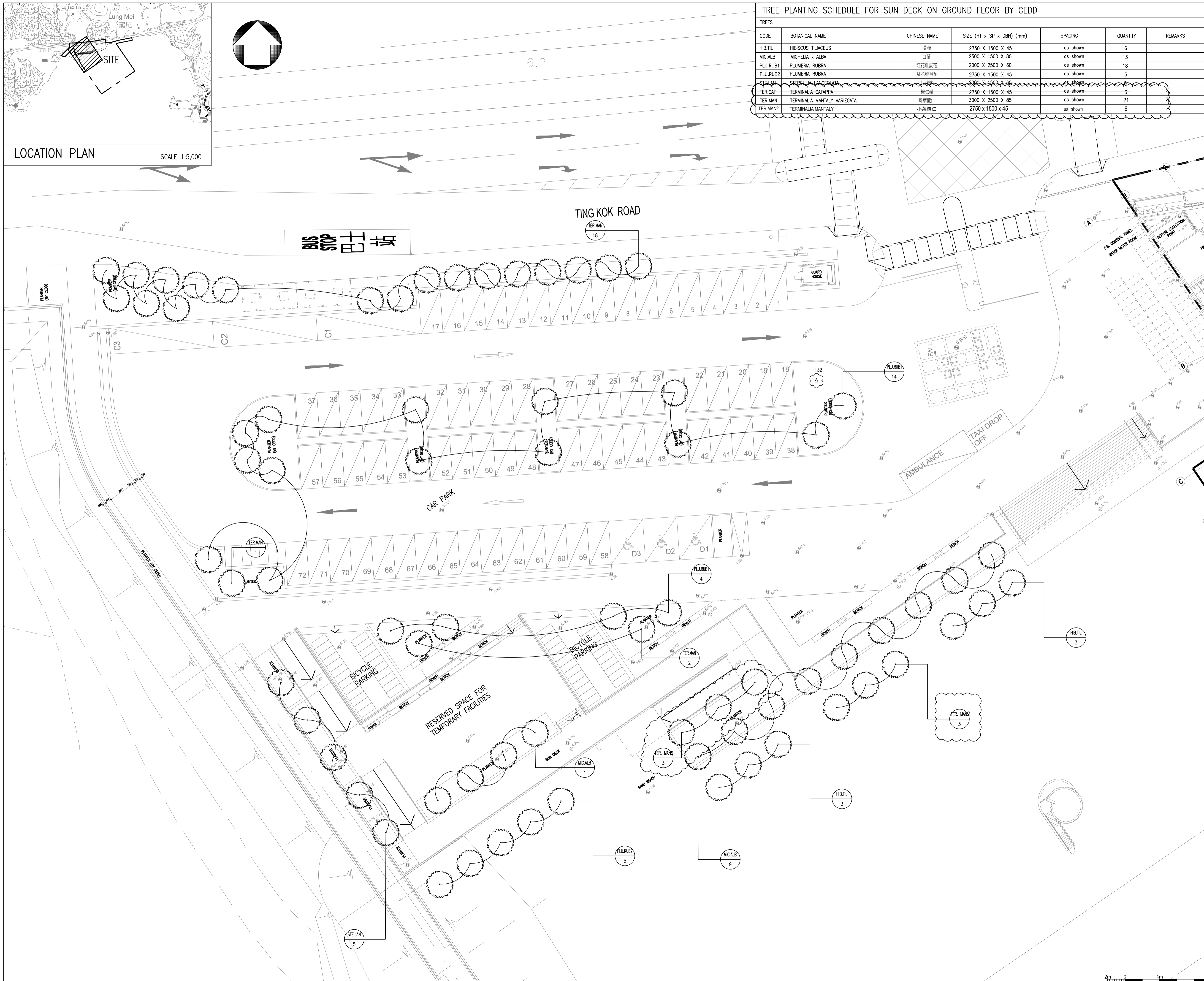


TREE PLANTING SCHEDULE FOR SUN DECK ON GROUND FLOOR BY CEDD

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (HT x SP x DBH) (mm)	SPACING	QUANTITY	REMARKS
HIB.TIL	HIBISCUS TILACEUS	芙蓉	2750 X 1500 X 45	as shown	6	
MC.ALB	MICHELIA x ALBA	白蘭	2500 X 1500 X 80	as shown	13	
PLU.RUB1	PLUMERIA RUBRA	紅花雞蛋花	2000 X 2500 X 60	as shown	18	
PLU.RUB2	PLUMERIA RUBRA	紅花雞蛋花	2750 X 1500 X 45	as shown	5	
STEL.LAN	STECHELIJA LANCEOLATA	銀桂	2000 X 1500 X 50	as shown	5	
TER.GAT	TERMINALIA GATAPPA	糖豆樹	2750 X 1500 X 45	as shown	3	
TER.MAN	TERMINALIA MANTALY VARIEGATA	錦象欄仁	3000 X 2500 X 85	as shown	21	
TER.MAN2	TERMINALIA MANTALY	小象欄仁	2750 X 1500 X 45	as shown	6	

- NOTES
- CONTRACTOR SHALL SUBMIT PHOTO FOR INDIVIDUAL SPECIES WITH DIMENSIONS SHOWN FOR ARCHITECT'S REVIEW.
 - NURSERY VISIT IN HONG KONG MAY BE REQUIRED TO CHECK PLANT QUALITY BEFORE DELIVERY TO THE SITE.
 - EXACT SETTING OUT TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF PLANTING WORK.
 - THE AREA WITHIN 250mm FROM EDGE OF TREE TRUNK SHALL BE FREE FROM VEGETATION AND MULCH.

- LEGENDS:
- T244
 - EXISTING TREE W/ TREE NUMBER
 - NEW TREE BY CEDD
 - SITE BOUNDARY



no.	date	description	initial
d	06/2021	4. GENERAL REVISION AS CLOUDED.	SLA/1
c	03/2021	3. GENERAL REVISION AS CLOUDED.	SIGNED SLA/1
b	11/2020	2. GENERAL REVISION AS CLOUDED.	SIGNED SLA/1
a	06/2020	1. GENERAL REVISION AS CLOUDED.	SIGNED SLA/1

name	date
designed J.S.Y. LEUNG	04/2020
drawn K.W. WONG	04/2020
checked K.M. HO	04/2020

approved	ORIGINAL SIGNED	MUI (CLA)	04/2020
Chief Landscape Architect	ORIGINAL SIGNED	E. LEE (SLA/1)	04/2020
Senior Landscape Architect	ORIGINAL SIGNED	J.S.Y. LEUNG (LA/6)	04/2020
Project Landscape Architect	signed		date

contract no. TC F511
 file no. ASD51/5465/RB/RCC/904
 works order no. ASD 012338

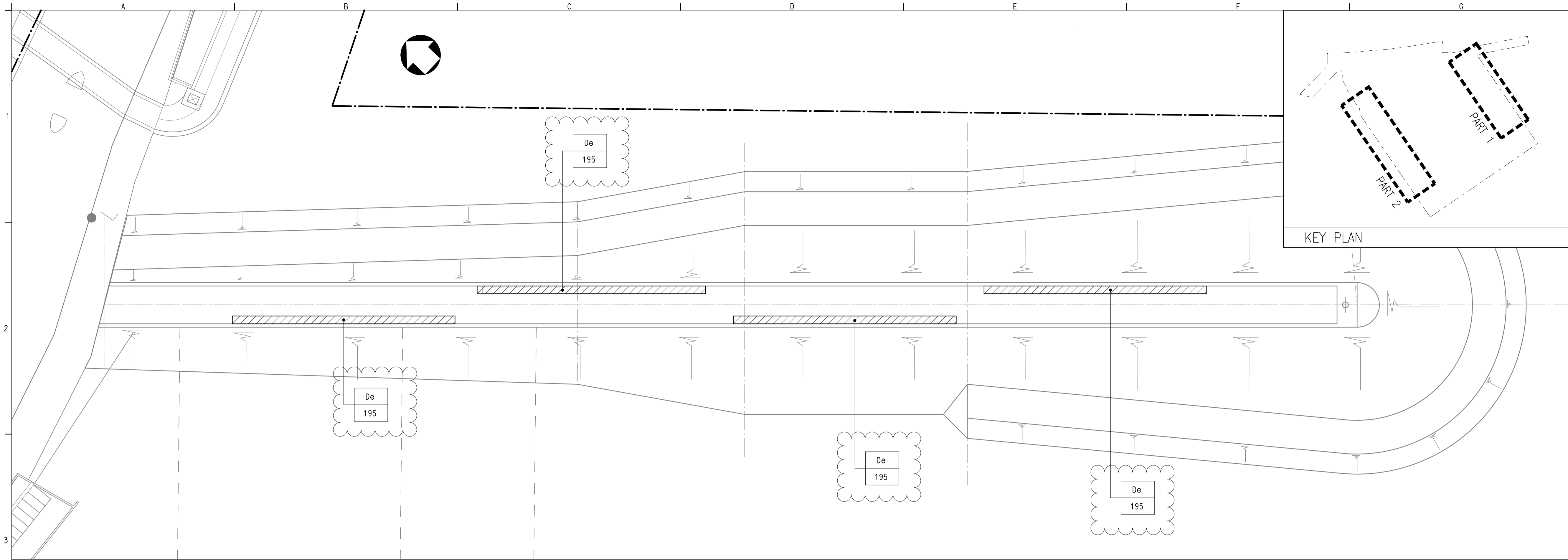
contract
DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title
GROUND FLOOR PLANTING PLAN – SUN DECK

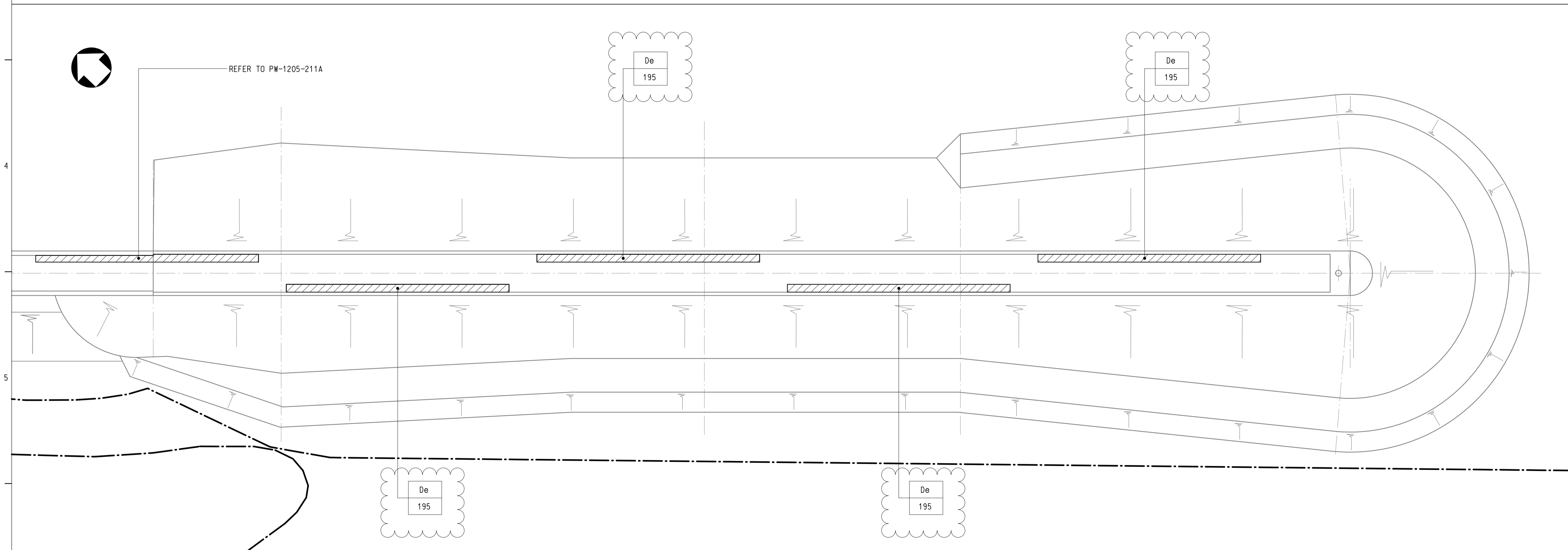
drawing no. **PW-1205-202F** scale 1:200 @A1
 1:400 @A3

office
ARCHITECTURAL BRANCH

ARCHITECTURAL SERVICES DEPARTMENT



PART 1 OF GROYNE



PART 2 OF GROYNE

NOTES:

LEGENDS:

- PLANTING AREA
- WORK BOUNDARY
- De • NAME OF SPECIES
- 195 • QUANTITY OF SPECIES

no.	date	description	checked	approved
A	04.05.2020	GENERAL REVISION		
A	25.11.2019	GENERAL REVISION		

REVISION

	name	initial	date
designed	K M CHENG	SIGNED	17.08.2012
drawn	K W LAM	SIGNED	27.08.2012
traced	K W LAM	SIGNED	27.08.2012
checked	T W POON	SIGNED	27.08.2012

approved

SIGNED
(K. S. LI)
Chief Engineer
date: 27.08.2012

contract no. CV/2012/05

file no.

project no. 5258RS

contract

BATHING BEACH AT LUNG MEI, TAI PO

drawing title

GROYNE PLANTING PLAN

drawing no. PW-1205-203B

scale 1 : 200

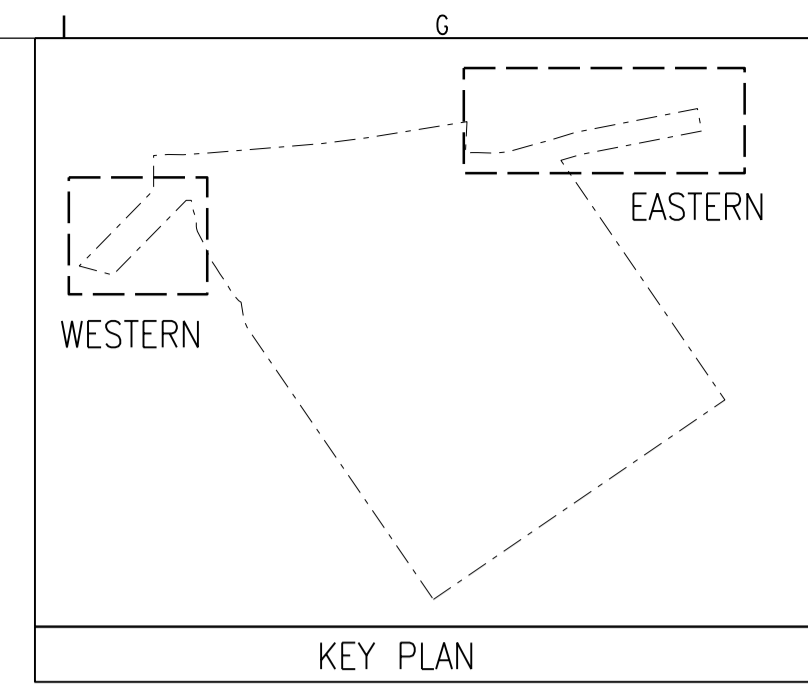
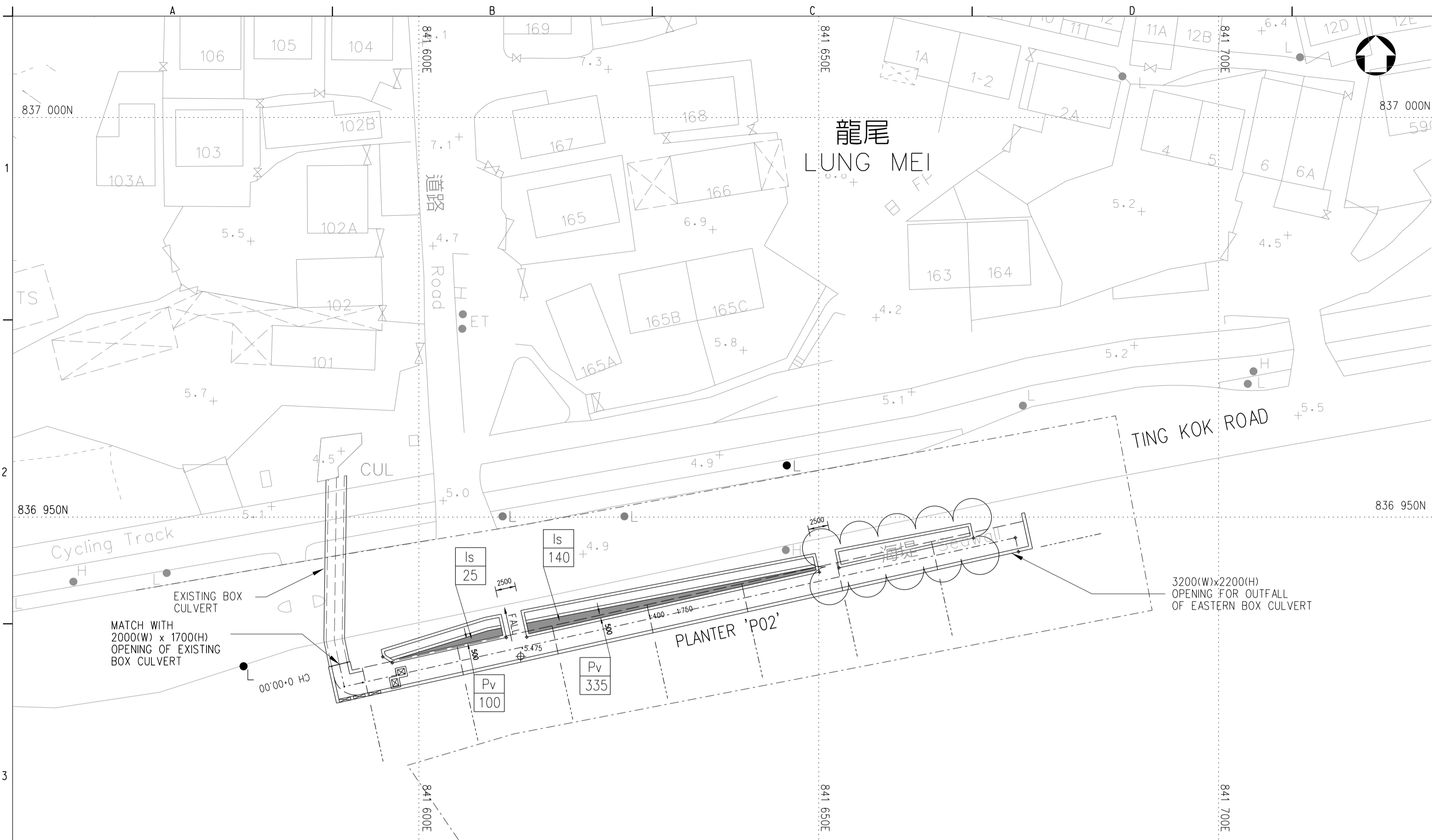
office

PORT WORKS DIVISION
CIVIL ENGINEERING OFFICE

PLANTING SCHEDULE FOR GROUYNE						
SHRUBS						
CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	NOS./m ²	QUANTITY (NOS.)
De	DURANTA ERECTA (GOLDEN)	金蓮翹	350	300	15	1560

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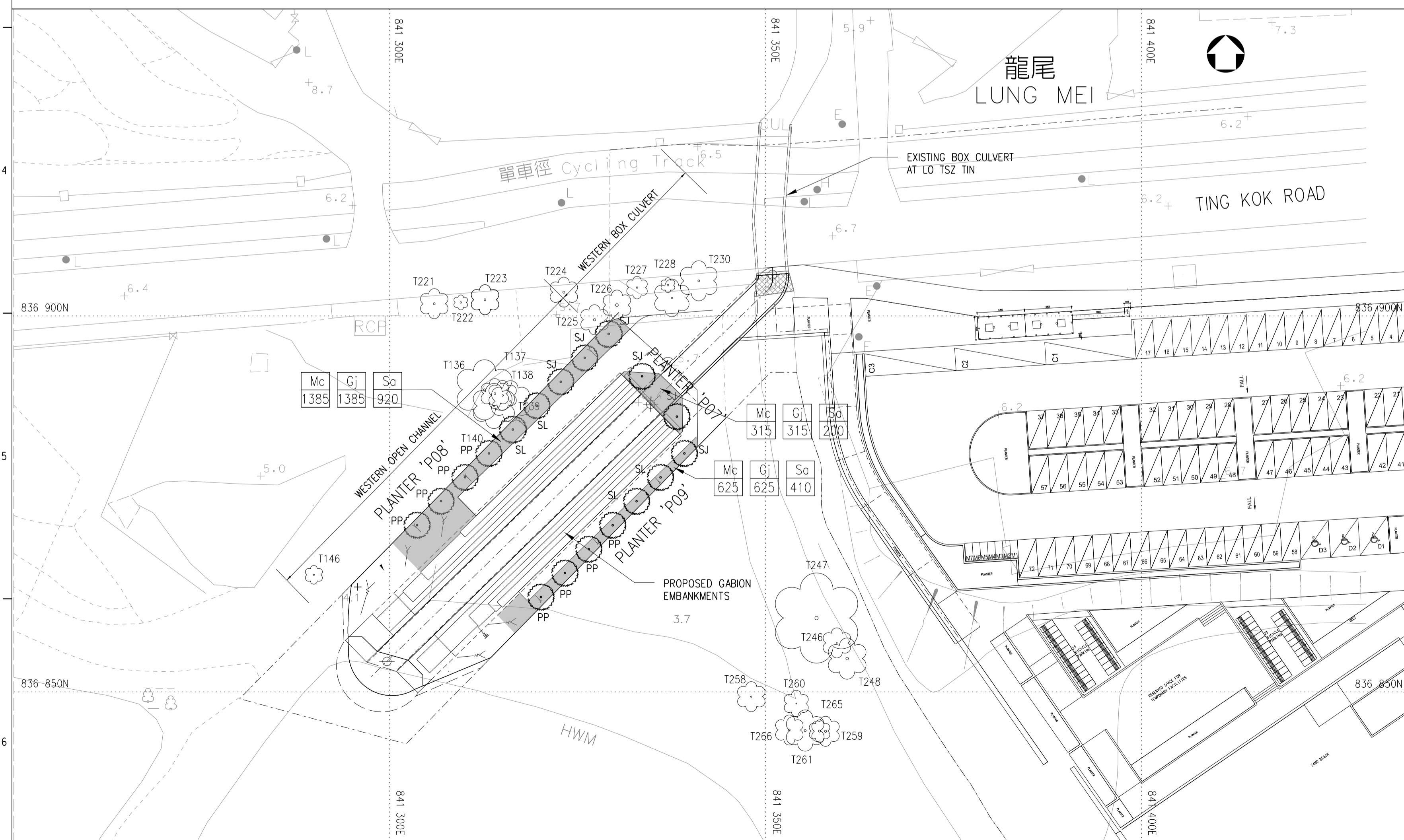
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT



- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS.
 - ALL CO-ORDINATES REFER TO HONG KONG GEODETIC DATUM 1980 AND ARE IN METRES.
 - ALL LEVELS REFER TO PRINCIPAL DATUM (P.D.) AND ARE IN METERS.
- LEGENDS:**
- T244 EXISTING TREE W/ TREE NUMBER
 - PROPOSED TREE
 - PLANTING AREA
 - WORK BOUNDARY

PLANTING SCHEDULE					
SHRUB					
CODE	BOTANICAL NAME	CHINESE	SIZE (HT X SP)mm	NO. / SQ. M	QUANTITY (NOS.)
Is	IXORA STRICTA	細葉龍船花	350 X 300	10	165
CLIMBER					
CODE	BOTANICAL NAME	CHINESE	SIZE (HT X SP X DBH)mm	QUANTITY (NOS.)	
Pv	PYROSTEGIA VENUSTA	炮仗花	4 SHOOTS PER PLANT, EACH SHOOT 900mm LONG	435	SPACING 250

EASTERN BOX CULVERT PLANTING PLAN



REVISION			
no.	date	description	checked
E	22.06.2021	GENERAL REVISION	
D	25.09.2020	GENERAL REVISION	SIGNED SIGNED
C	03.09.2020	GENERAL REVISION	SIGNED SIGNED
B	12.02.2020	GENERAL REVISION	SIGNED SIGNED
A	16.08.19	GENERAL REVISION	SIGNED SIGNED

DESIGNATION			
role	name	initial	date
designed	K M CHENG	SIGNED	17.08.2012
drawn	S P LEUNG	SIGNED	27.08.2012
traced	S P LEUNG	SIGNED	27.08.2012
checked	T W POON	SIGNED	27.08.2012

approved

SIGNED
K. S. LI
Chief Engineer
date: 27.08.2012

contract no. CV/2012/05

file no.

project no. 5258RS

BATHING BEACH AT LUNG MEI, TAI PO

drawing title

EASTERN BOX CULVERT AND WESTERN BOX CULVERT PLANTING PLANS

drawing no. PW-1205-204E

scale 1 : 400

office

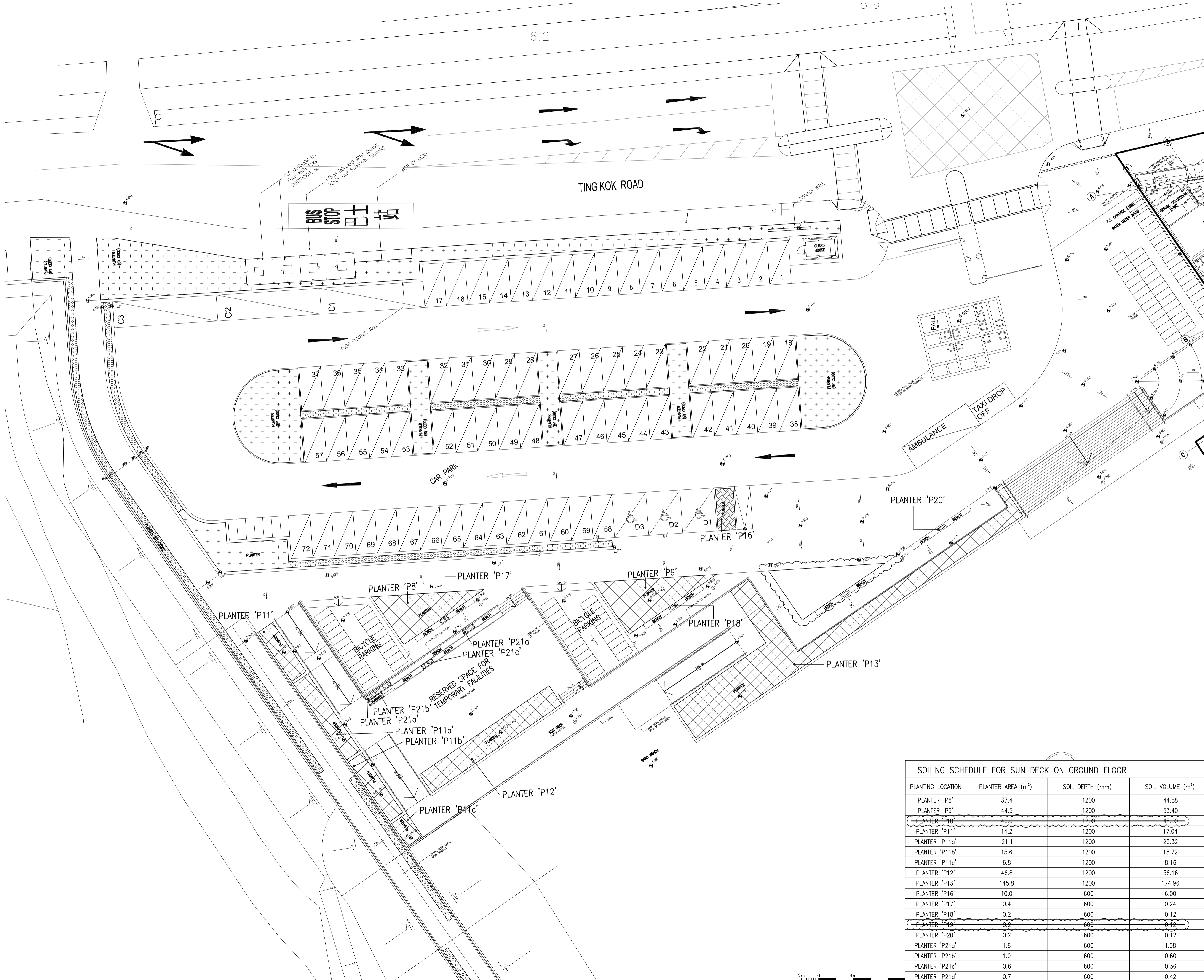
PORT WORKS DIVISION
CIVIL ENGINEERING OFFICE

PLANTING SCHEDULE					
TREE					
CODE	BOTANICAL NAME	CHINESE	SIZE (HT X SP X DBH)mm	QUANTITY (NOS.)	
SL	STERCULIA LANCEOLATA	假蘋婆	3500 X 2500 X 85	4	
SJ	SYZYGIUM JAMBOS	蒲桃	3500 X 2500 X 85	6	
PP	PONGAMIA PINNATA	水黃皮	3500 X 2500 X 85	8	
SHRUB					
CODE	BOTANICAL NAME	CHINESE	SIZE (HT X SP)mm	NO. / SQ. M	QUANTITY (NOS.)
Mc	MELASTOMA CANDIDUM	野牡丹	300 X 250	12	2325
Gj	GARDENIA JASMINOIDES	白蟻	300 X 250	12	2325
Sa	SCHEFFLERA ARBORICOLA	鵝掌藤	450 X 400	8	1530

WESTERN BOX CULVERT PLANTING PLAN

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- LEGENDS:**
- SITE BOUNDARY
 - BACKFILL 1200mm SOIL-MIX UNDER THE CONTRACT
 - BACKFILL 600mm SOIL-MIX UNDER THE CONTRACT
 - BACKFILL 300mm SOIL-MIX UNDER THE CONTRACT
 - BACKFILL 200mm SOIL-MIX UNDER THE CONTRACT
 - BACKFILL 600mm SOIL-MIX UNDER THE CONTRACT
 - BACKFILL 1200mm SOIL-MIX UNDER THE CONTRACT

b	06/2021	1. GENERAL REVISION AS CLOUDED.	SLA/1
			LA/6
a	06/2020	1. GENERAL REVISION AS CLOUDED.	SIGNED SLA/1
			SIGNED LA/1
no.	date	description	initial

REVISION		
designed	J.S.Y. LEUNG	04/2020
drawn	K.W. WONG	04/2020
checked	K.M. HO	04/2020
approved		
Chief Landscape Architect	T. MUI (CLA)	04/2020
Senior Landscape Architect	E. LEE (SLA/1)	04/2020
Project Landscape Architect	J.S.Y. LEUNG (LA/6)	04/2020
	signed	date

contract no. TC F511
 file no. ASD51/5465/RB/RCC/904
 works order no. ASD 012338

DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

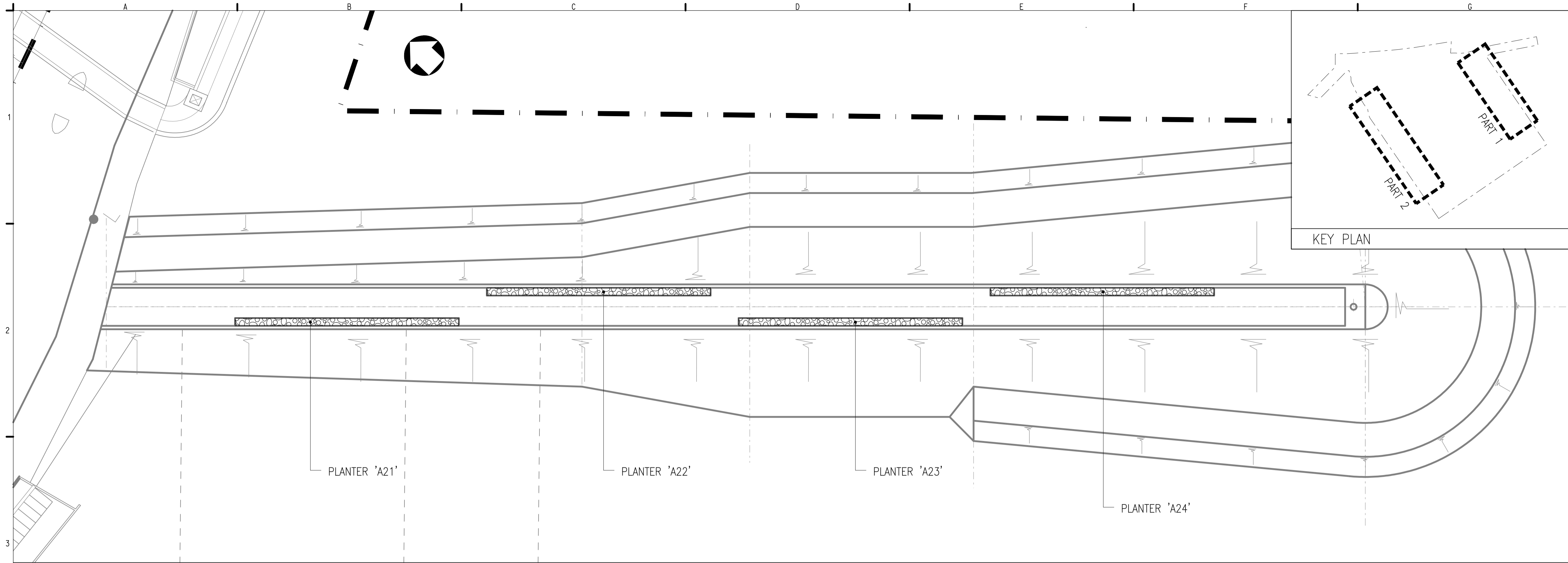
drawing title
GROUND FLOOR SOILING PLAN – SUN DECK

drawing no. **PW-1205-206D** scale 1:200 @A1

office
ARCHITECTURAL BRANCH



SOILING SCHEDULE FOR SUN DECK ON GROUND FLOOR			
PLANTING LOCATION	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
PLANTER 'P8'	37.4	1200	44.88
PLANTER 'P9'	44.5	1200	53.40
PLANTER 'P10'	46.8	1200	56.16
PLANTER 'P11'	14.2	1200	17.04
PLANTER 'P11a'	21.1	1200	25.32
PLANTER 'P11b'	15.6	1200	18.72
PLANTER 'P11c'	6.8	1200	8.16
PLANTER 'P12'	46.8	1200	56.16
PLANTER 'P13'	145.8	1200	174.96
PLANTER 'P16'	10.0	600	6.00
PLANTER 'P17'	0.4	600	0.24
PLANTER 'P18'	0.2	600	0.12
PLANTER 'P19'	0.2	600	0.12
PLANTER 'P20'	0.2	600	0.12
PLANTER 'P21a'	1.8	600	1.08
PLANTER 'P21b'	1.0	600	0.60
PLANTER 'P21c'	0.6	600	0.36
PLANTER 'P21d'	0.7	600	0.42



NOTES:

LEGENDS:

- BACKFILL 600mm SOIL-MIX
- WORK BOUNDARY

KEY PLAN

no.	date	description	checked	approved
A	25.11.2019	GENERAL REVISION		

REVISION

	name	initial	date
designed	K M CHENG	SIGNED	17.08.2012
drawn	K W LAM	SIGNED	27.08.2012
traced	K W LAM	SIGNED	27.08.2012
checked	T W POON	SIGNED	27.08.2012

approved

SIGNED
K. S. LI
Chief Engineer
date : 27.08.2012

contract no. CV/2012/05

file no.

project no. 5258RS

contract

BATHING BEACH AT LUNG MEI, TAI PO

drawing title

GROYNE SOILING PLAN

drawing no. PW-1205-207A

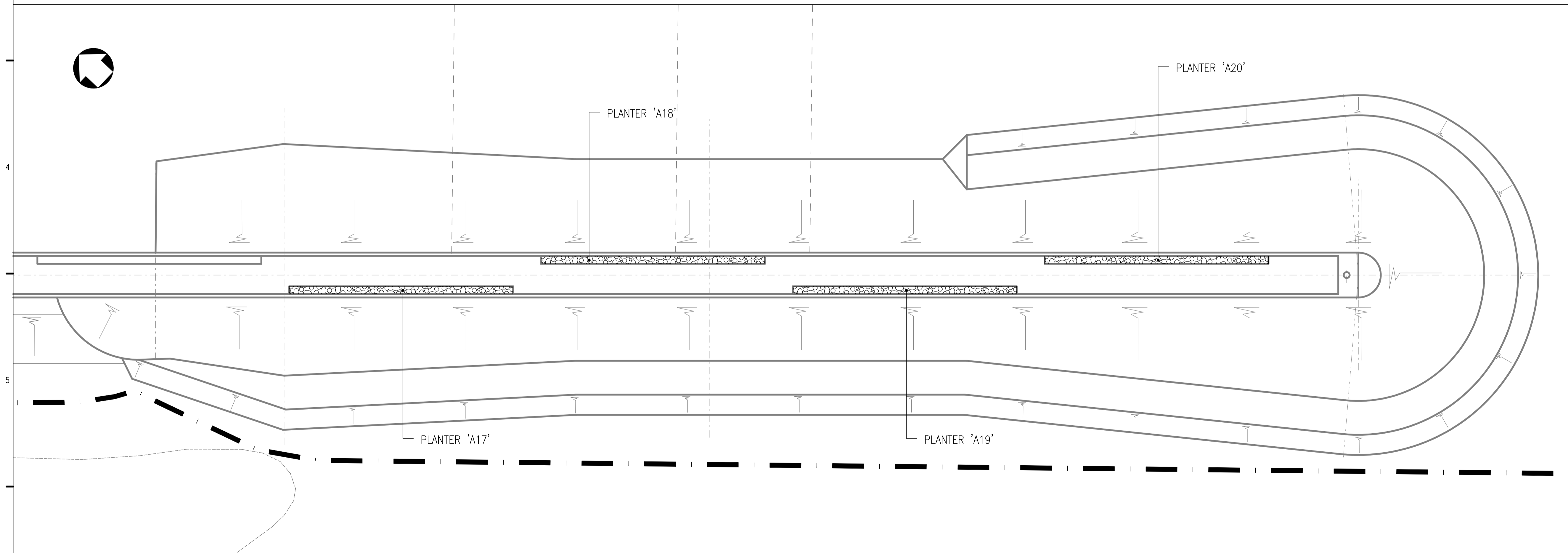
scale 1 : 200

office

**PORT WORKS DIVISION
CIVIL ENGINEERING OFFICE**

**CEDD
CIVIL ENGINEERING
AND DEVELOPMENT
DEPARTMENT**

PART 1 OF GROYNE



PART 2 OF GROYNE

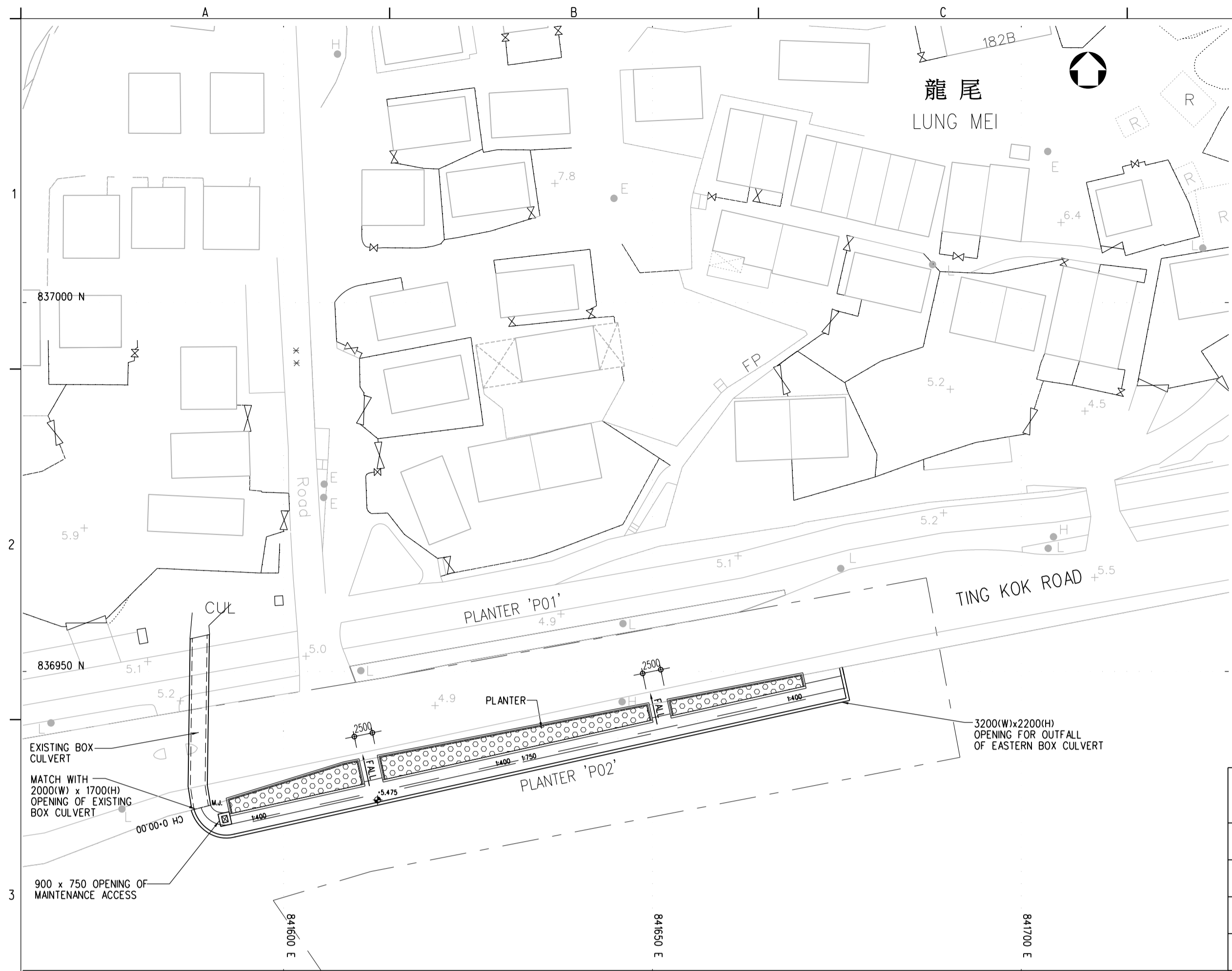
SOILING SCHEDULE FOR PART 1 OF GROYNE

PLANTING LOCATION	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
PLANTER 'A21'	14.0	600	8.40
PLANTER 'A22'	14.0	600	8.40
PLANTER 'A23'	14.0	600	8.40
PLANTER 'A24'	14.0	600	8.40

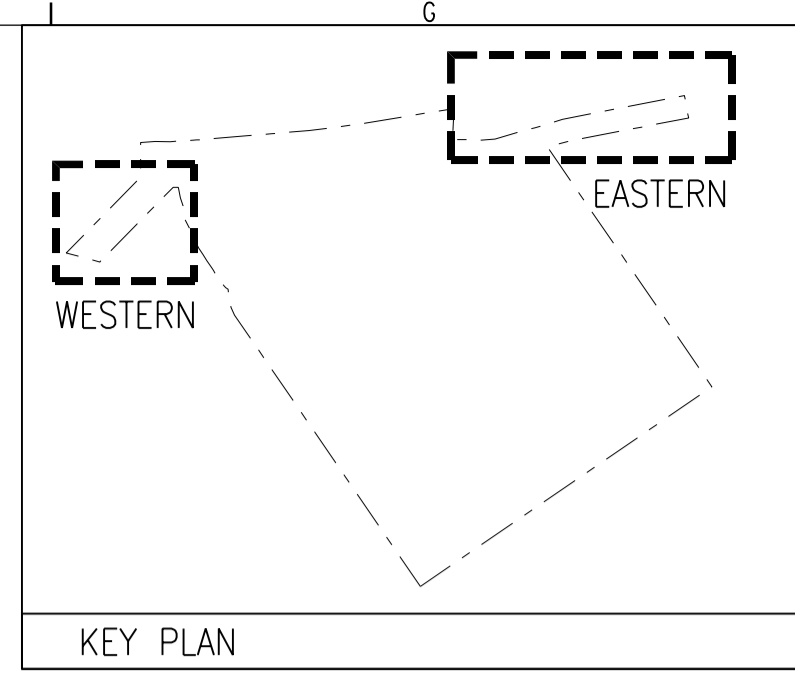
SOILING SCHEDULE FOR PART 2 OF GROYNE

PLANTING LOCATION	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
PLANTER 'A17'	14.0	600	8.40
PLANTER 'A18'	14.0	600	8.40
PLANTER 'A19'	14.0	600	8.40
PLANTER 'A20'	14.0	600	8.40

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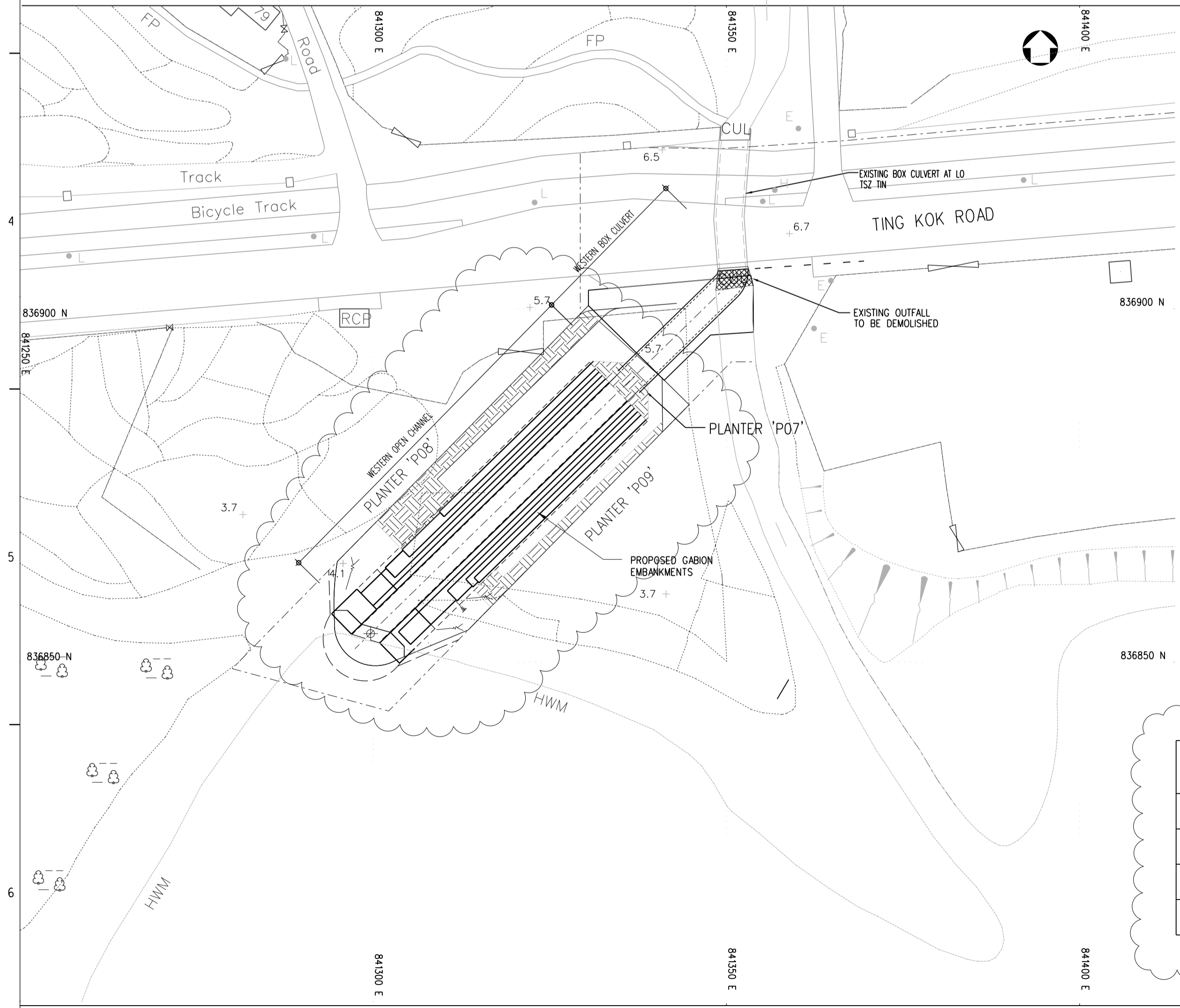
SOILING SCHEDULE			
PLANTER NO.	PLANTER AREA (m ²)	SOIL DEPTH (mm)	SOIL VOLUME (m ³)
P02	172.635	600	103.581



- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS.
 - ALL CO-ORDINATES REFER TO HONG KONG GEODETIC DATUM 1980 AND ARE IN METRES.
 - ALL LEVELS REFER TO PRINCIPAL DATUM (P.D.) AND ARE IN METRES.
- LEGEND:
- BACKFILL 600mm TOP SOIL FOR SHRUB PLANTING
 - BACKFILL 1500mm TOP SOIL FOR TREE PLANTING
 - WORK BOUNDARY

no.	date	description	checked	approved
C	25.09.2020	GENERAL REVISION		
B	03.09.2020	GENERAL REVISION		
A	16.08.2019	GENERAL REVISION		

EASTERN BOX CULVERT PLANTING PLAN



SOILING SCHEDULE		
PLANTER NO.	PLANTER AREA (m ²)	SOIL DEPTH (mm)
P07	30.25	1500mm OR DOWN TO THE TOP OF STRUCTURE WHICHEVER IS SMALLER
P08	129.08	
P09	131.033	

REVISION			
	name	initial	date
designed	K M CHENG	SIGNED	17.08.2012
drawn	S P LEUNG	SIGNED	27.08.2012
traced	S P LEUNG	SIGNED	27.08.2012
checked	T W POON	SIGNED	27.08.2012

approved

SIGNED

(K. S. LI)

Chief Engineer

date : 27.08.2012

contract no. CV/2012/05

file no.

project no. 5258RS

contract

BATHING BEACH AT LUNG MEI, TAI PO

drawing title

EASTERN BOX CULVERT AND WESTERN BOX CULVERT SOILING PLANS

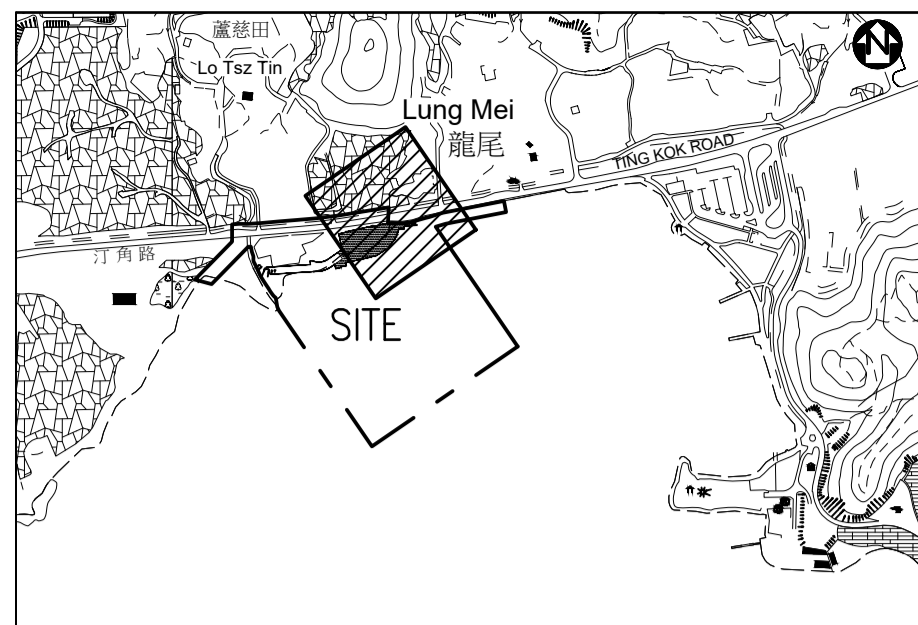
drawing no. PW-1205-208C

scale 1 : 500

office

PORT WORKS DIVISION
CIVIL ENGINEERING OFFICE

WESTERN BOX CULVERT PLANTING PLAN

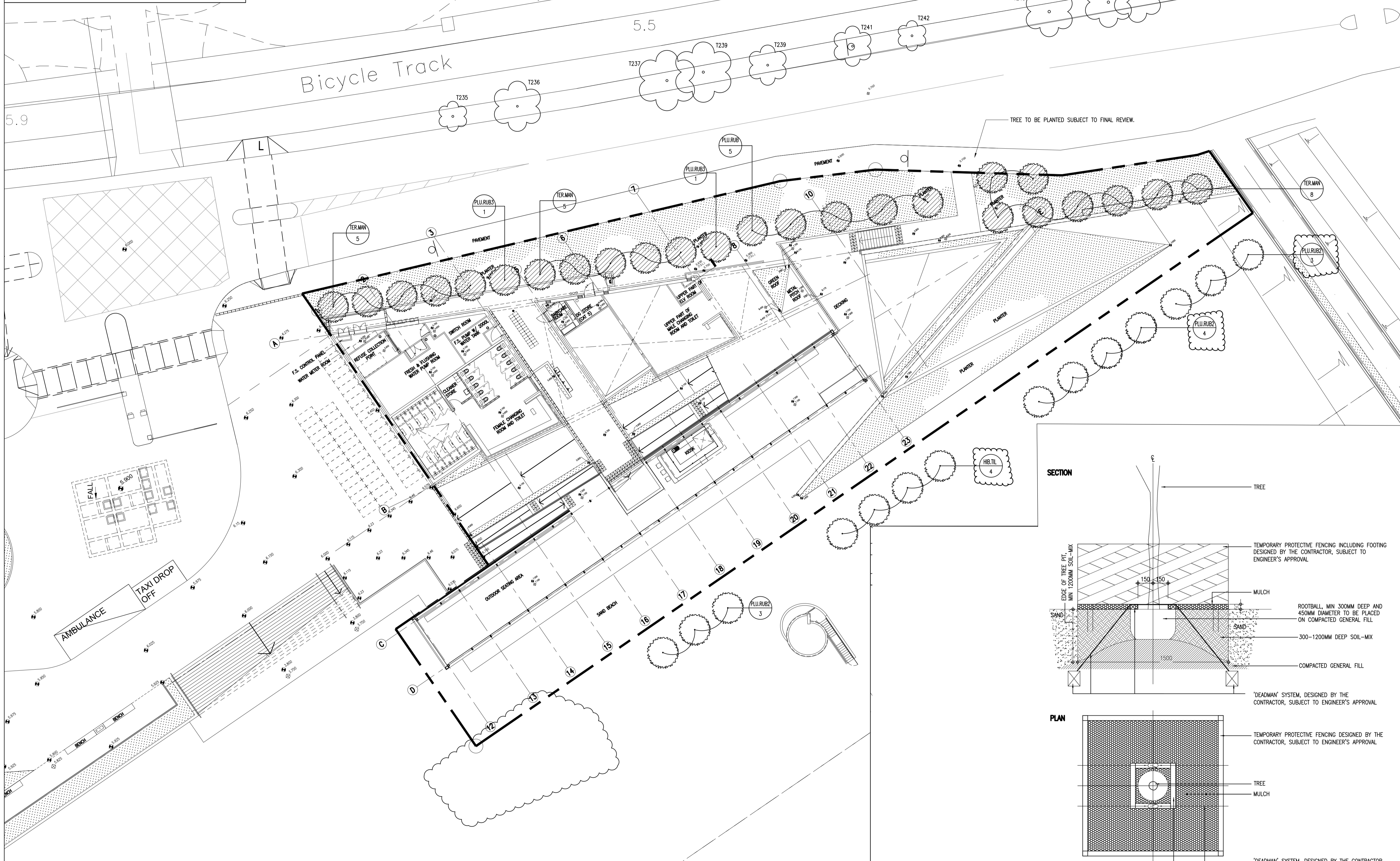


LOCATION PLAN SCALE 1:10,000

TREE PLANTING SCHEDULE FOR BEACH BUILDING ON GROUND FLOOR

TREES						
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (HT x SP x DBH) (mm)	SPACING	QUANTITY	REMARKS
PLU.RUB	PLUMERIA RUBRA	紅花雞蛋花	2000 X 2500 X 60	as shown	5	
PLU.RUB3	PLUMERIA RUBRA 'ACUTIFOLIA'	黃花雞蛋花	2750 X 1500 X 80	as shown	2	
TER.MAN	TERMINALIA MANTALY VARIEGATA	錦葉櫻仁	3000 X 2500 X 85	as shown	18	
NEW TREE BY OTHERS						
TREES						
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (HT x SP x DBH) (mm)	SPACING	QUANTITY	REMARKS
HIB.TL	HIBISCUS TILACEUS	芙蓉	2750 X 1500 X 45	as shown	4	
PLU.RUB2	PLUMERIA RUBRA	紅花雞蛋花	2750 X 1500 X 45	as shown	10	
TER.CAT	TERMINALIA CATAPPA	櫻仁樹	2750 X 1500 X 45	as shown	3	

- NOTES
- CONTRACTOR SHALL SUBMIT PHOTO FOR INDIVIDUAL SPECIES WITH DIMENSIONS SHOWN FOR ARCHITECT'S REVIEW.
 - NURSERY VISIT IN HONG KONG MAY BE REQUIRED TO CHECK PLANT QUALITY BEFORE DELIVERY TO THE SITE.
 - EXACT SETTING OUT TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF PLANTING WORK.
 - THE AREA WITHIN 250mm FROM EDGE OF TREE TRUNK SHALL BE FREE FROM VEGETATION AND MULCH.



- LEGENDS:
- T244 (circle with dot) EXISTING TREE W/ TREE NUMBER
 - (circle with diagonal lines) NEW TREE FOR THIS PROJECT
 - (circle with dot) NEW TREE BY OTHERS
 - SITE BOUNDARY

no.	date	description	initial
C	06/2021	3. REVISED AS CLOUDED.	SLA/1
-	04/2021	AS PLANTED DRAWING	SIGNED SLA/1
B	11/2020	2. REVISED AS CLOUDED.	SIGNED SLA/1
A	11/2020	1. REVISED AS CLOUDED.	SIGNED SLA/1

designed	name	date
	J.S.Y. LEUNG	04/2020
drawn	K.W. WONG	04/2020
checked	K.M. HO	04/2020

approved	name	date
Chief Landscape Architect	SIGNED T. MUI (CLA)	04/2020
Senior Landscape Architect	SIGNED E. LEE (SLA/1)	04/2020
Project Landscape Architect	SIGNED J.S.Y. LEUNG (LA/6)	04/2020

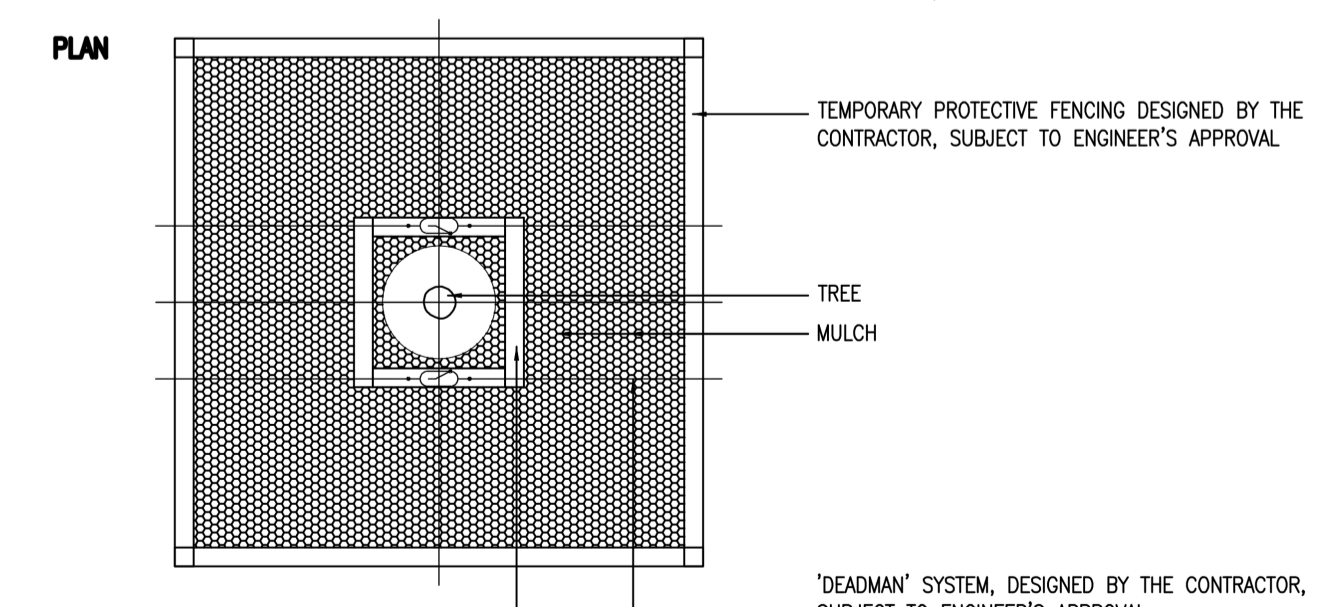
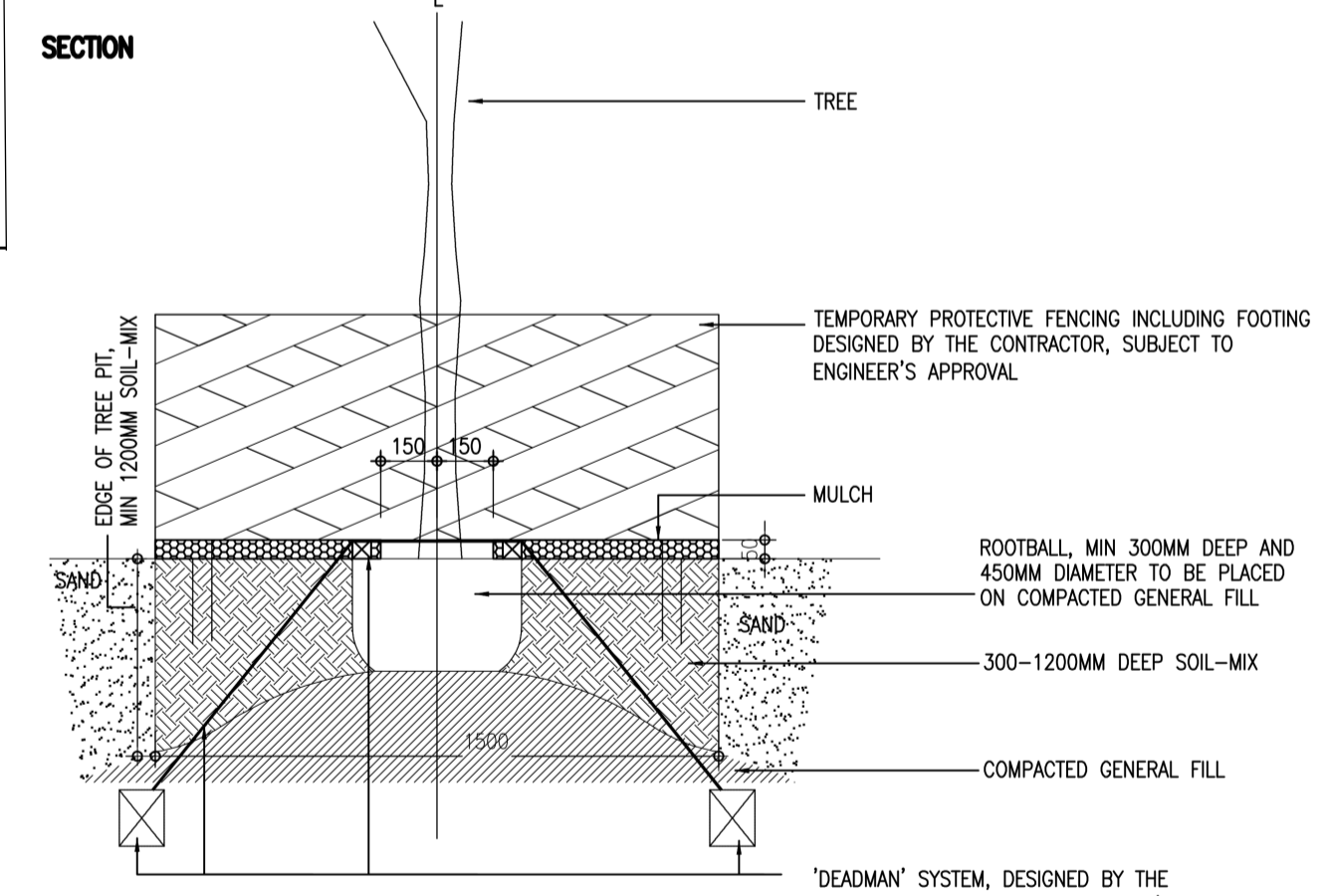
contract no. TC F511
 file no. ASD51/5465/RB/RCC/904
 works order no. ASD 012338

contract
DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title
GROUND FLOOR AND LOWER GROUND FLOOR PLANTING PLAN – BEACH BUILDING

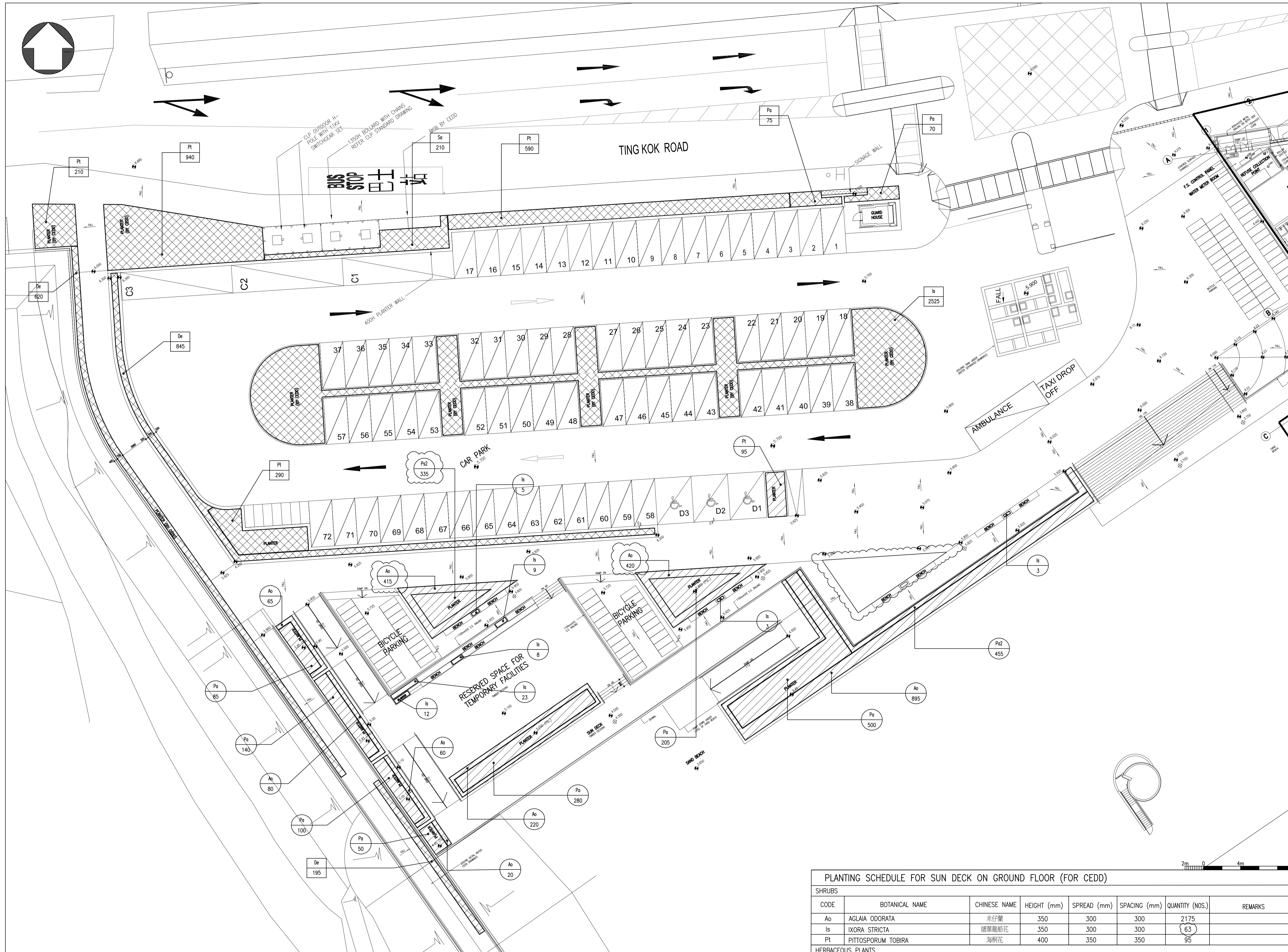
drawing no. PW-1205-210D
 scale 1:200 @A1
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office
ARCHITECTURAL BRANCH



NOTE
 1) DETAILS IS INDICATIVE ONLY, SUBMIT TREE PIT DETAILS AT LEAST 3 MONTHS PRIOR TO PLANTING FOR THE ENGINEER APPROVAL
 2) TEMPORARY PROTECTIVE FENCING (THE FENCE) AND 'DEADMAN' SYSTEM (THE SYSTEM) TO BE MAINTAINED BY THE CONTRACTOR UNTIL COMPLETION OF ESTABLISHMENT WORKS
 3) WHEN INSTRUCTED BY THE ENGINEER, THE CONTRACTOR SHOULD REVIEW THE STABILITY OF ALL TREES AND SUBMIT A REPORT COMPRISING THE FINDINGS AND RECOMMENDATIONS ON WHETHER THE INSTALLATION OF THE FENCE AND/OR THE SYSTEM SHOULD CONTINUE TO BE IN PLACE FOR ENGINEER APPROVAL. SHOULD INSTALLATION OF THE FENCE AND/OR THE SYSTEM BE NOT REQUIRED DURING OR AFTER ESTABLISHMENT WORKS PERIOD, THE CONTRACTOR SHOULD REMOVE THE FENCE AND/OR THE SYSTEM FROM THE SITE WHEN INSTRUCTED BY THE ENGINEER

GROUND FLOOR PLANTING PLAN – BEACH BUILDING



- LEGENDS:
- SHRUB PLANTING UNDER THE CONTRACT
 - SHRUB PLANTING UNDER THE CONTRACT
 - MULCH
 - SITE BOUNDARY
 - NAME OF SPECIES UNDER THE CONTRACT
 - QUANTITY OF SPECIES UNDER THE CONTRACT
 - NAME OF SPECIES UNDER THE CONTRACT
 - QUANTITY OF SPECIES UNDER THE CONTRACT

b	06/2021	1. GENERAL REVISION AS CLOUDED.	SLA/1
a	06/2020	1. GENERAL REVISION AS CLOUDED.	LA/6
no.	date	description	SIGNED SLA/1 SIGNED LA/1
initial			
REVISION			
name		date	
designed	J.S.Y. LEUNG	04/2020	
drawn	K.W. WONG	04/2020	
checked	K.M. HO	04/2020	
approved			
Chief Landscape Architect	T. MUI (CLA)	04/2020	
Senior Landscape Architect	E. LEE (SLA/1)	04/2020	
Project Landscape Architect	J.S.Y. LEUNG (LA/6)	04/2020	
signed		date	

contract no. TC F511

file no. ASD51/5465/RB/RCC/904

works order no. ASD012338

contract

DEVELOPMENT OF BATHING BEACH AT LUNG MEI, TAI PO

drawing title

GROUND FLOOR SHRUB PLAN – SUN DECK

drawing no. **PW-1205-211C**

scale 1:200 @A1

office

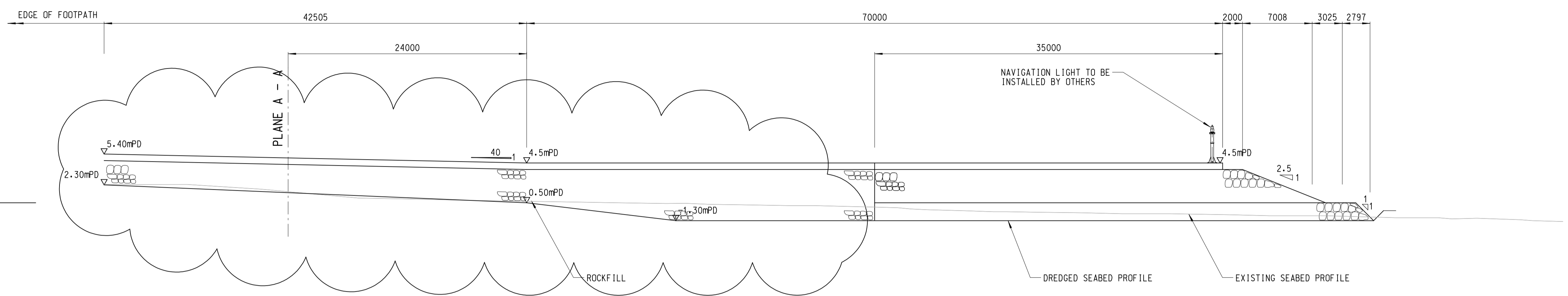
ARCHITECTURAL BRANCH



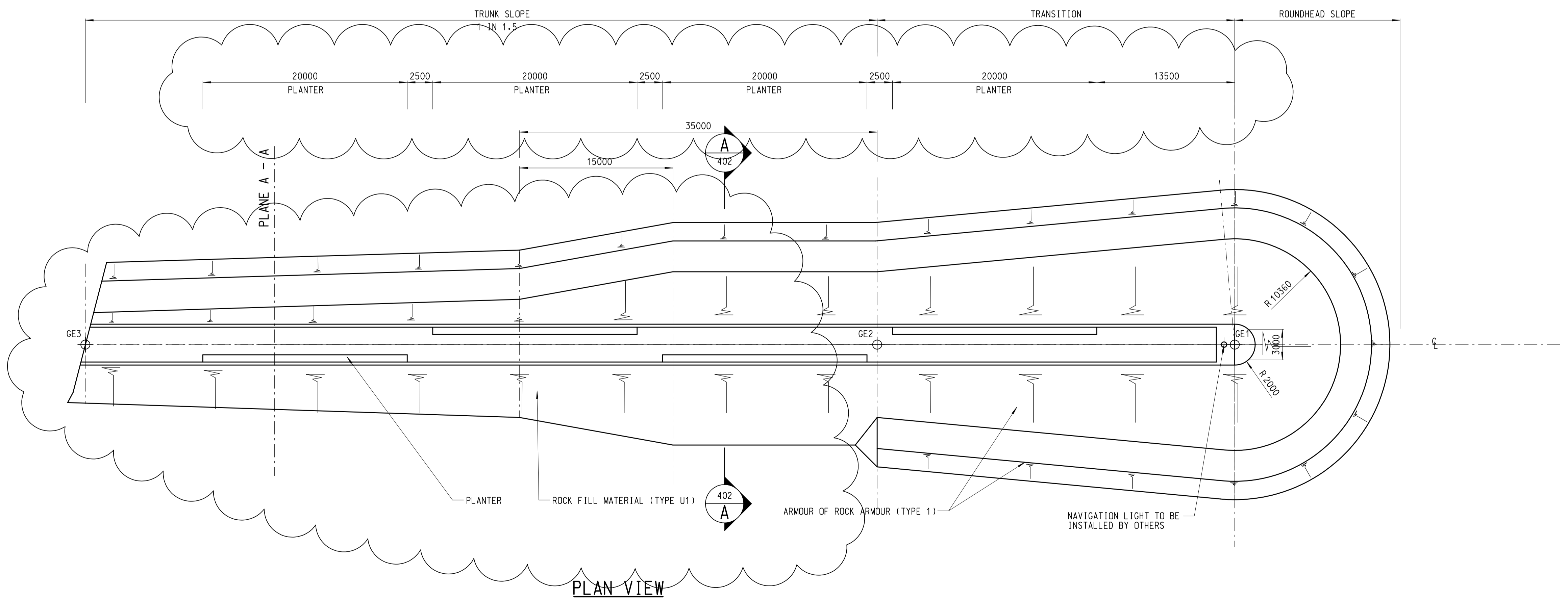
CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	NOS./m ²	QUANTITY (NOS.)
De	DURANTA ERECTA (GOLDEN)	金蓮翹	350	300	15	1660
Is	IXORA STRICTA	細葉龍船花	350	300	10	2525
Pt	PITTIOSPORUM TOBIRA	海桐花	400	350	10	2030
Pa	PENNISETUM ALOPECUROIDES	狼尾草	500	400	10	145
Sa	SCHFEFLERA ARBORICOLA	鵝掌藤	400	400	8	210

SHRUBS	CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY (NOS.)	REMARKS
	Ao	AGLAIA ODORATA	米仔蘭	350	300	300	2175	
	Is	IXORA STRICTA	細葉龍船花	350	300	300	63	
	Pt	PITTIOSPORUM TOBIRA	海桐花	400	350	350	95	
HERBACEOUS PLANTS	CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	SPREAD (mm)	SPACING (mm)	QUANTITY (NOS.)	REMARKS
	Pa	PENNISETUM ALOPECUROIDES	狼尾草	500	400	350	1360	
	Ps2	PENNISETUM SETACEUM 'RUBRUM'	紫葉狗尾草	500	400	350	335	
BAMBOO	CODE	BOTANICAL NAME	CHINESE NAME	HEIGHT (mm)	NO./m ²	QUANTITY (NOS.)	REMARKS	
	Pa2	PHYLLOSTACHYS AUREA	人面竹	2000	20	455	MIN. 3 SHOOTS FOR EACH POT DEEP PLANT IN STAGGERING PATTERN.	

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED..
 2. ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
 3. THE FOUNDATION LEVEL OF GROYNE STARTING FROM PLANE A-A TOWARDS THE SEASIDE SHALL BE ALLUVIUM OR -1.30mPD WHICHEVER IS LOWER AND SHALL BE LIMITED TO 2.9m BELOW SEABED OR AS DETERMINED ON SITE BY THE ENGINEER.



ELEVATION OF EASTERN GROUYNE
(RAILING NOT SHOWN FOR CLARITY)



PLAN VIEW

TABLE OF SETTING OUT POINT

POINT	EASTING (m)	NORTHING (m)
GE1	841 636.728	836 833.339
GE2	841 616.652	836 862.008
GE3	841 572.196	836 925.496

no.	date	description	checked	approved
D	31.3.2020	PLANTER REVISED		
C	26.9.18	GENERAL LAYOUT REVISED	SIGNED	SIGNED
B	20.8.18	GENERAL LAYOUT REVISED	SIGNED	SIGNED
A	21.8.17	GROYNE LAYOUT REVISED AND NOTE. 3. DELETED	SIGNED	SIGNED

REVISION

no.	date	description	checked	approved
designed		K M CHENG	SIGNED	17.08.2012
drawn		S P LEUNG	SIGNED	27.08.2012
traced		S P LEUNG	SIGNED	27.08.2012
checked		T W POON	SIGNED	27.08.2012

approved
 SIGNED
 (Signature)
 Chief Engineer
 date : 27.08.2012

contract no. CV/2012/05
 file no.
 project no. 5258RS
 contract

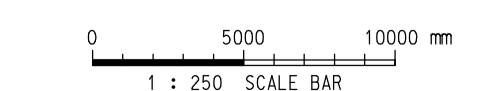
BATHING BEACH AT LUNG MEI, TAI PO

drawing title
LAYOUT PLAN OF EASTERN GROUYNE

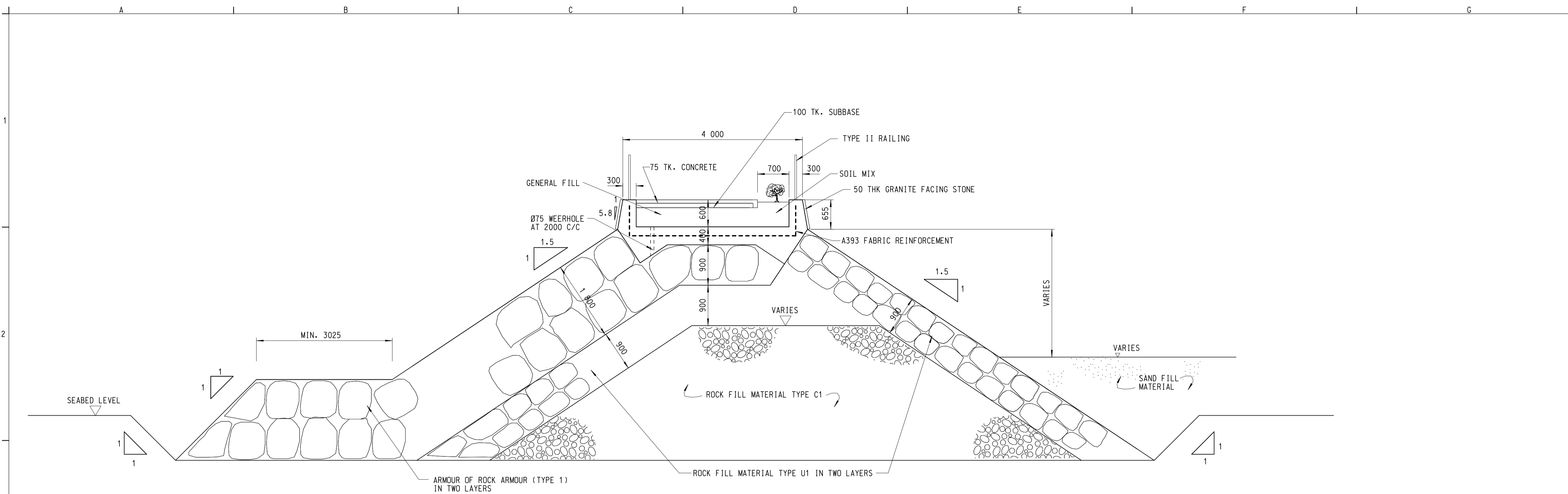
drawing no. **PW-1205-401D** scale 1 : 250

office
**PORT WORKS DIVISION
 CIVIL ENGINEERING OFFICE**

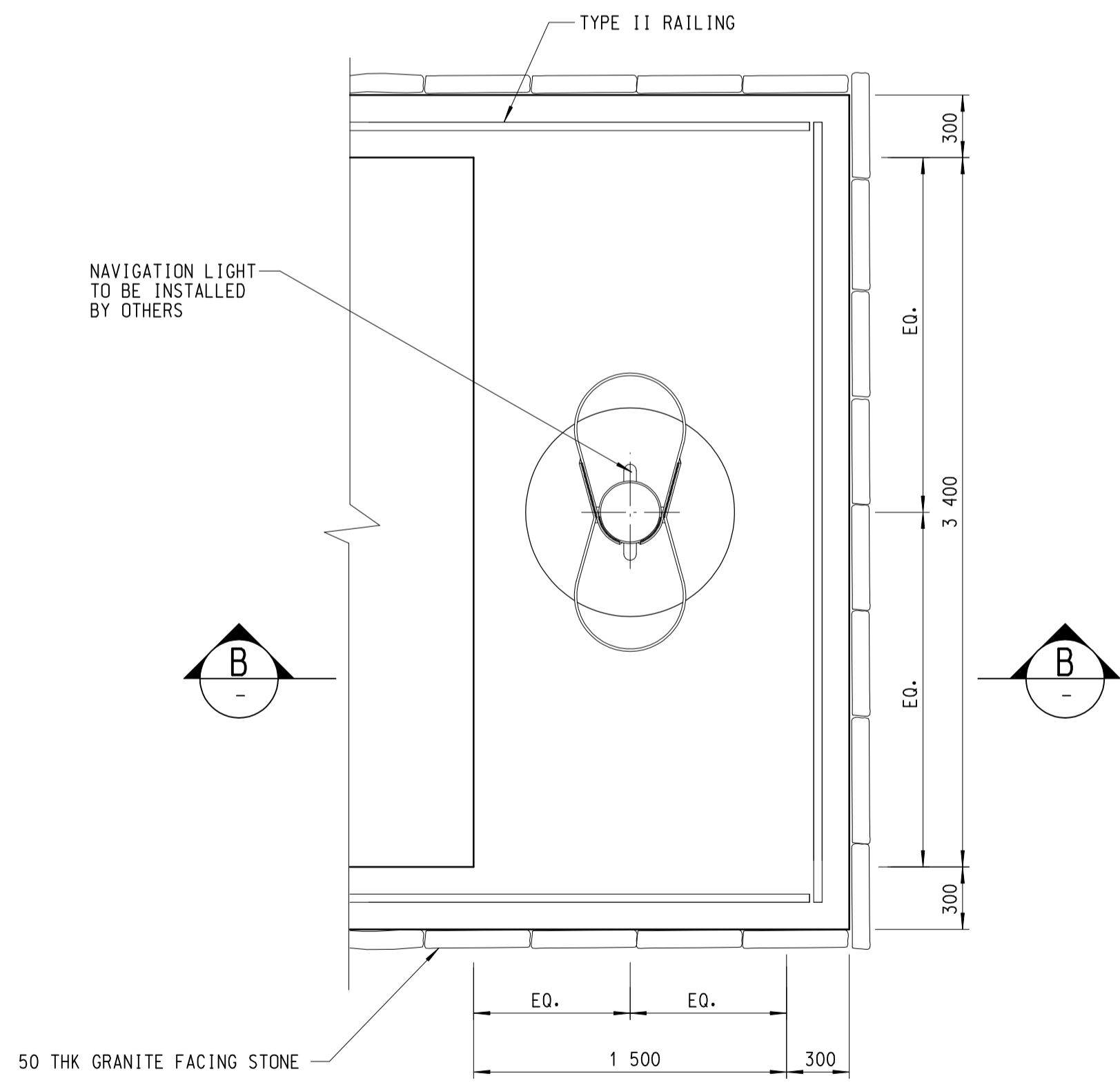
CEDD
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT



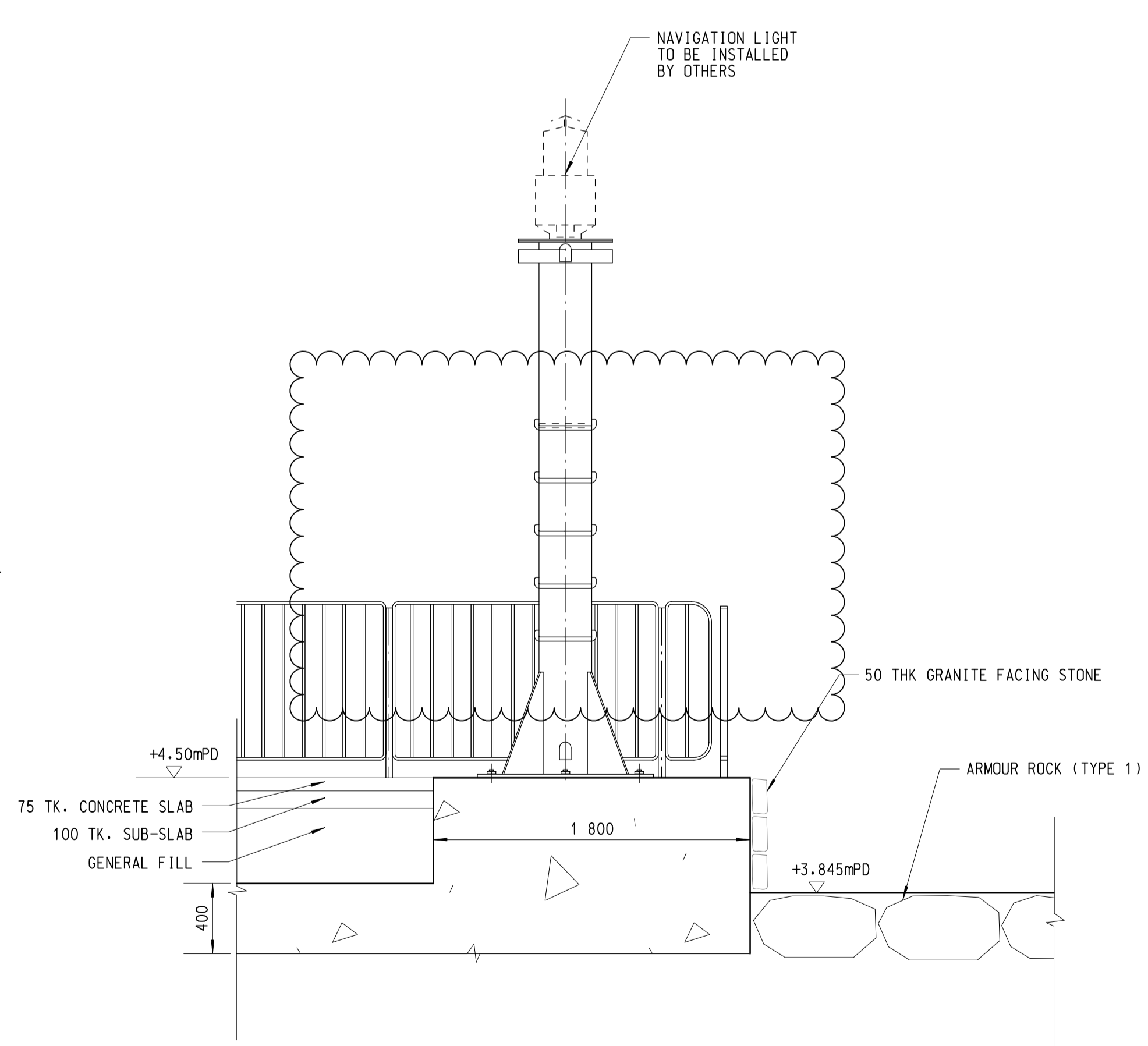
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SECTION A-A
SCALE 1 : 50



DETAILS OF FOUNDATION FOR NAVIGATION LIGHT
SCALE 1 : 25



SECTION B-B
SCALE 1 : 25

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED..
 2. ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
 3. FOR LAYOUT PLAN OF WESTERN GROUYNE, REFER TO PW-1205-403.
 4. ROCK FILL MATERIAL TYPE U1 SHALL CONSIST ROCK OF 39 - 247 Kg WITH 50% \geq 113 Kg
 5. ROCK FILL MATERIAL TYPE C1 SHALL CONSIST ROCK OF 0.50 - 30 Kg WITH 50% \geq 15 Kg AND 15% \leq 0.60 Kg
 6. GRANITE FACING STONES SHALL BE SET IN 1 : 3 CEMENT MORTAR AND POINTED WITH 1 : 2 CEMENT MORTAR.
 7. THE FOUNDATION LEVEL OF GROUYNE SHALL BE ALLUVIUM OR -1.30mPD WHICHEVER IS LOWER AND SHALL BE LIMITED TO 2.9m BELOW SEABED OR AS DETERMINED ON SITE BY THE ENGINEER.

no.	date	description	checked	approved
F	15.5.20	GENERAL REVISION		
E	31.3.20	PLANTER REVISED		
D	26.9.18	GENERAL REVISION	SIGNED	SIGNED
C	20.8.18	GENERAL REVISION	SIGNED	SIGNED
B	26.6.18	DEATILS LEVEL ADDED	SIGNED	SIGNED
A	21.8.17	GROUYNE LAYOUT REVISED	SIGNED	SIGNED

REVISION

	name	initial	date
designed	K M CHENG	SIGNED	17.08.2012
drawn	S P LEUNG	SIGNED	27.08.2012
traced	S P LEUNG	SIGNED	27.08.2012
checked	T W POON	SIGNED	27.08.2012

approved
 SIGNED
 (K. S. LI)
 Chief Engineer
 date : 27.08.2012

contract no. CV/2012/05
 file no.
 project no. 5258RS

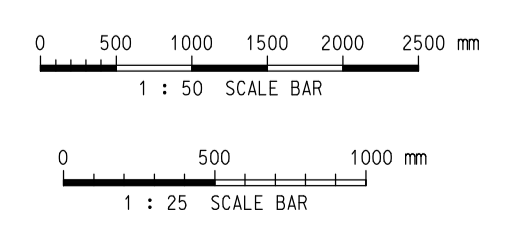
contract
BATHING BEACH AT LUNG MEI, TAI PO

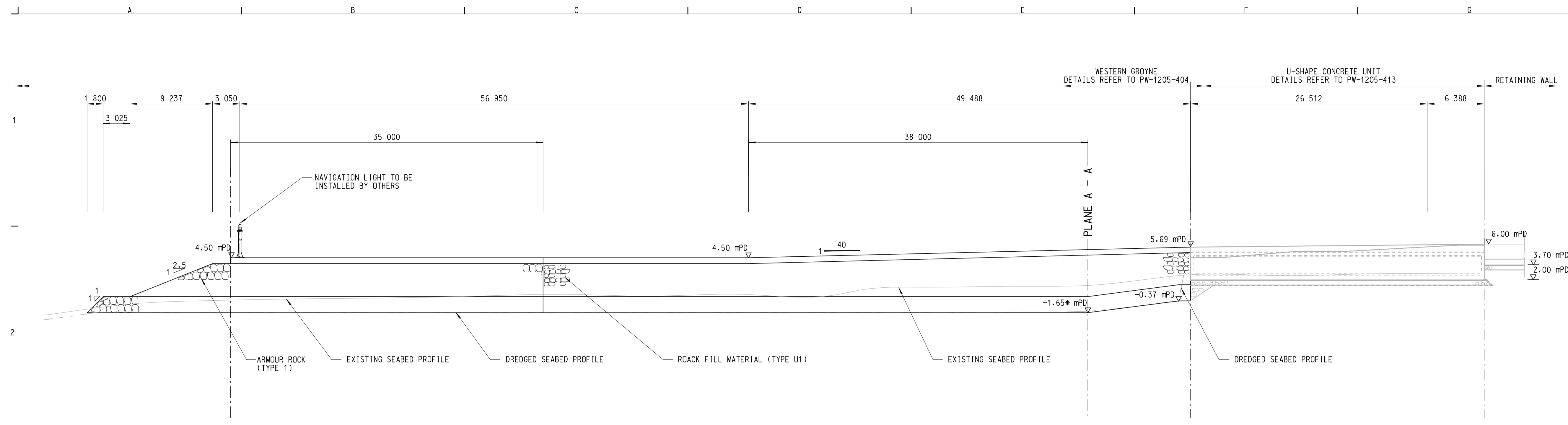
drawing title
DETAILS OF EASTERN GROUYNE

drawing no. **PW-1205-402F** scale AS SHOWN

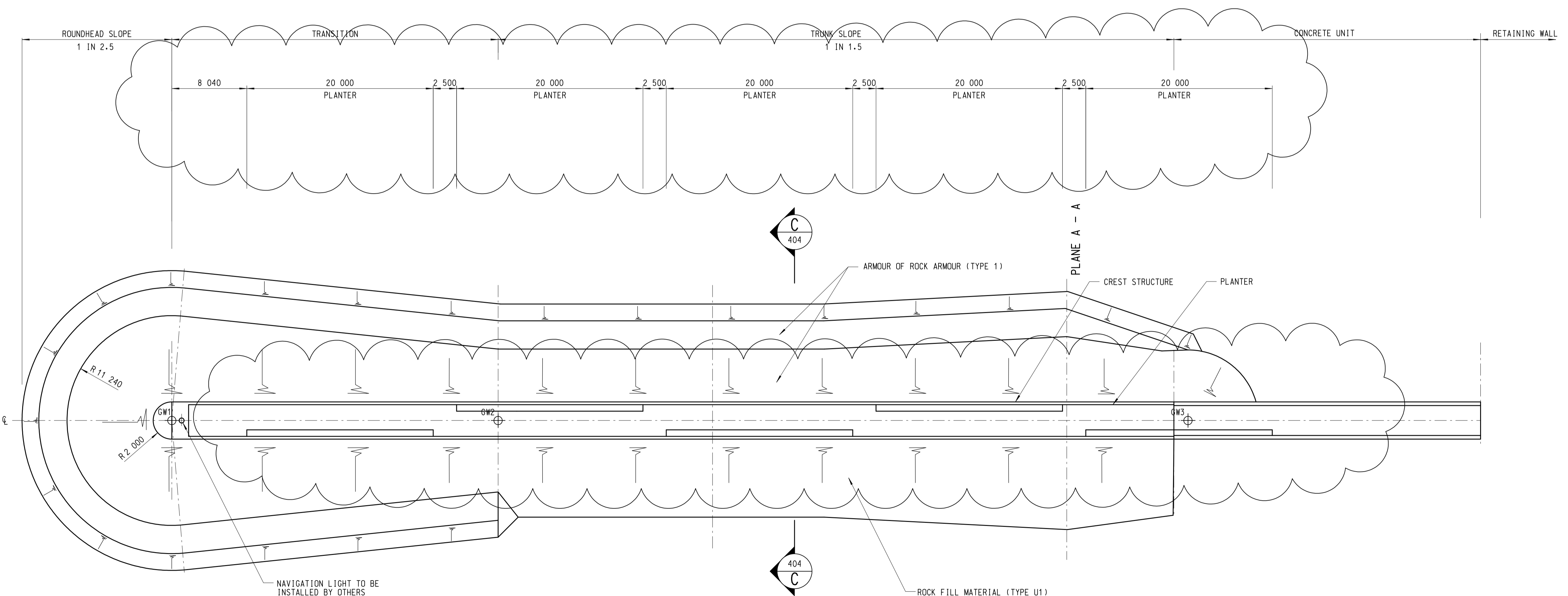
office
 PORT WORKS DIVISION
 CIVIL ENGINEERING OFFICE

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT





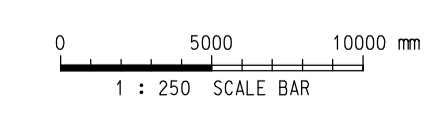
ELEVATION OF THE WESTERN GROYNE
(RAILING NOT SHOWN FOR CLARITY)



PLAN VIEW

TABLE OF SETTING OUT POINT

POINT	EASTING (m)	NORTHING (m)
GW1	841 457.410	836 742.482
GW2	841 437.334	836 771.151
GW3	841 394.970	836 831.650



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- NOTES:**
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 2. ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
 3. THE FOUNDATION LEVEL OF GROUYNE STARTING FROM PLANE A-A TOWARDS THE SEASIDE SHALL BE ALLUVIUM OR -1.65mPD WHICHEVER IS LOWER AND SHALL BE LIMITED TO 2.9m BELOW SEABED OR AS DETERMINED ON SITE BY THE ENGINEER.

no.	date	description	checked	approved
E	31.3.2020	PLANTER REVISED		
D	30.1.19	CONCRETE UNIT REVISED	SIGNED	SIGNED
C	26.9.18	CONCRETE UNIT REVISED	SIGNED	SIGNED
B	17.8.18	GENERAL LAYOUT REVISED	SIGNED	SIGNED
A	27.9.11	GROYNE LAYOUT REVISED AND NOTE. 3. DELETED	SIGNED	SIGNED

REVISION

no.	date	description	checked	approved
designed		K M CHENG	SIGNED	17.08.2012
drawn		S P LEUNG	SIGNED	27.08.2012
traced		S P LEUNG	SIGNED	27.08.2012
checked		T W POON	SIGNED	27.08.2012

approved
 SIGNED
 (K. S. LI)
 Chief Engineer
 date : 27.08.2012

contract no. CV/2012/05
 file no.
 project no. 5258RS
 contract

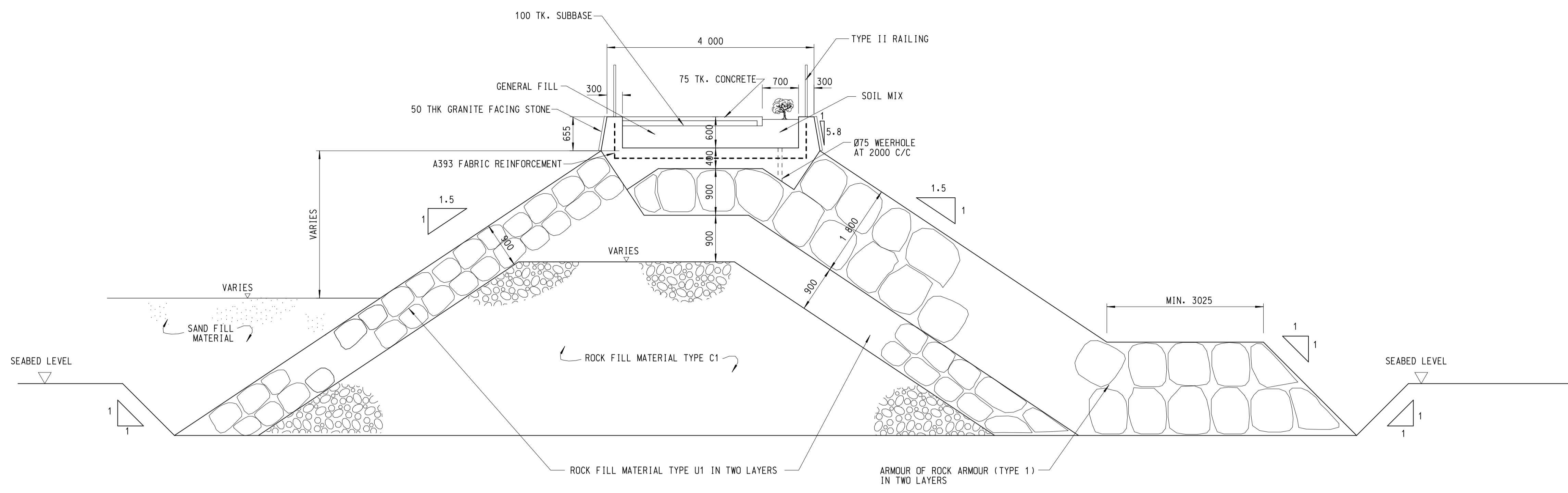
BATHING BEACH AT LUNG MEI, TAI PO

drawing title
LAYOUT PLAN OF WESTERN GROUYNE

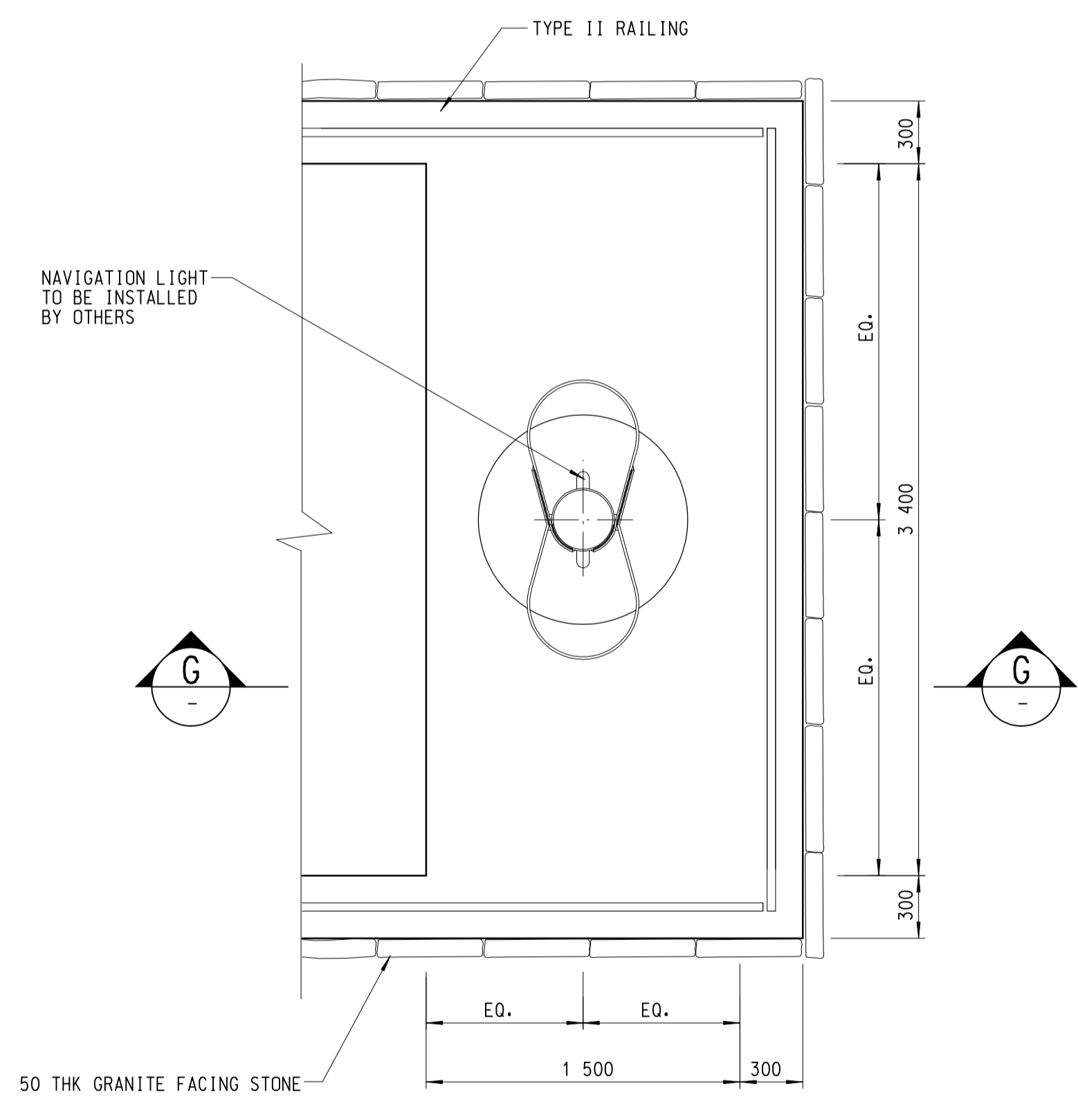
drawing no. **PW-1205-403E** scale 1 : 250

office
**PORT WORKS DIVISION
 CIVIL ENGINEERING OFFICE**

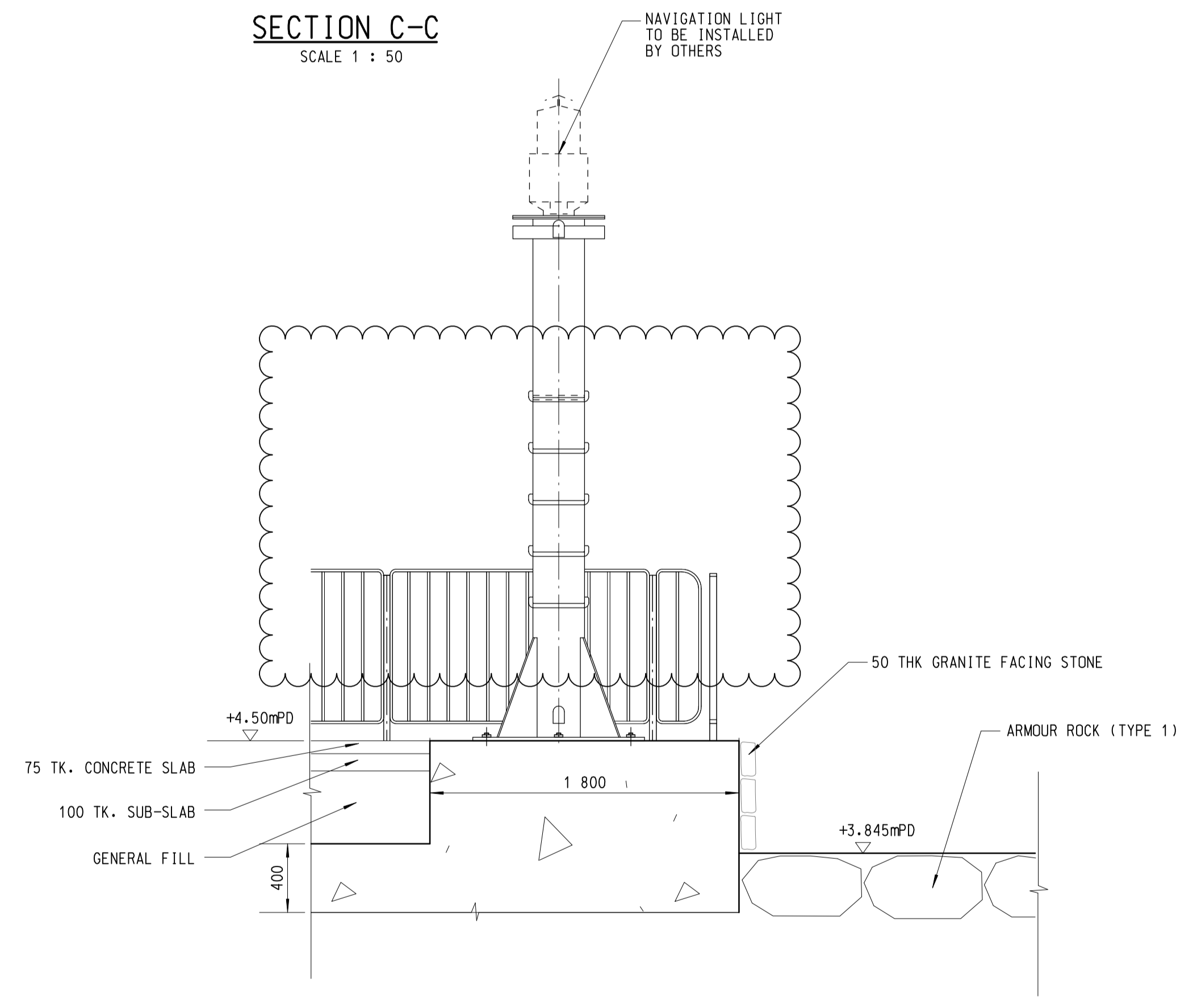
CEDD
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT



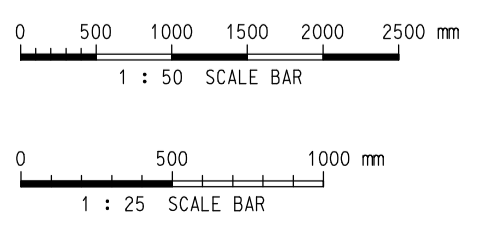
SECTION C-C
SCALE 1 : 50



DETAILS OF FOUNDATION FOR NAVIGATION LIGHT
SCALE 1 : 25



SECTION G-G
SCALE 1 : 25



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED..
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 3. FOR LAYOUT PLAN OF WESTERN GROYPE, REFER TO PW-1205-403.
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 7. THE FOUNDATION LEVEL OF GROYPE SHALL BE ALLUVIUM OR -1.65mPD WHICHEVER IS LOWER AND SHALL BE LIMITED TO 2.9m BELOW SEABED OR AS DETERMINED ON SITE BY THE ENGINEER.

no.	date	description	checked	approved
F	15.5.20	GENERAL REVISION		
E	31.3.20	GENERAL REVISION		
D	26.9.18	GENERAL REVISION	SIGNED	SIGNED
C	16.8.18	GENERAL REVISION	SIGNED	SIGNED
B	26.6.18	GENERAL REVISION	SIGNED	SIGNED
A	21.8.17	GROYNE LAYOUT REVISED	SIGNED	SIGNED

REVISION

	name	initial	date
designed	K M CHENG	SIGNED	17.08.2012
drawn	S P LEUNG	SIGNED	27.08.2012
traced	S P LEUNG	SIGNED	27.08.2012
checked	T W POON	SIGNED	27.08.2012

approved
 SIGNED
 (K. S. LI)
 Chief Engineer
 date : 27.08.2012

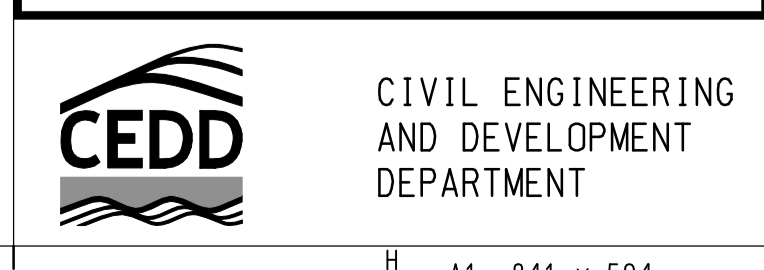
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 project no. 5258RS

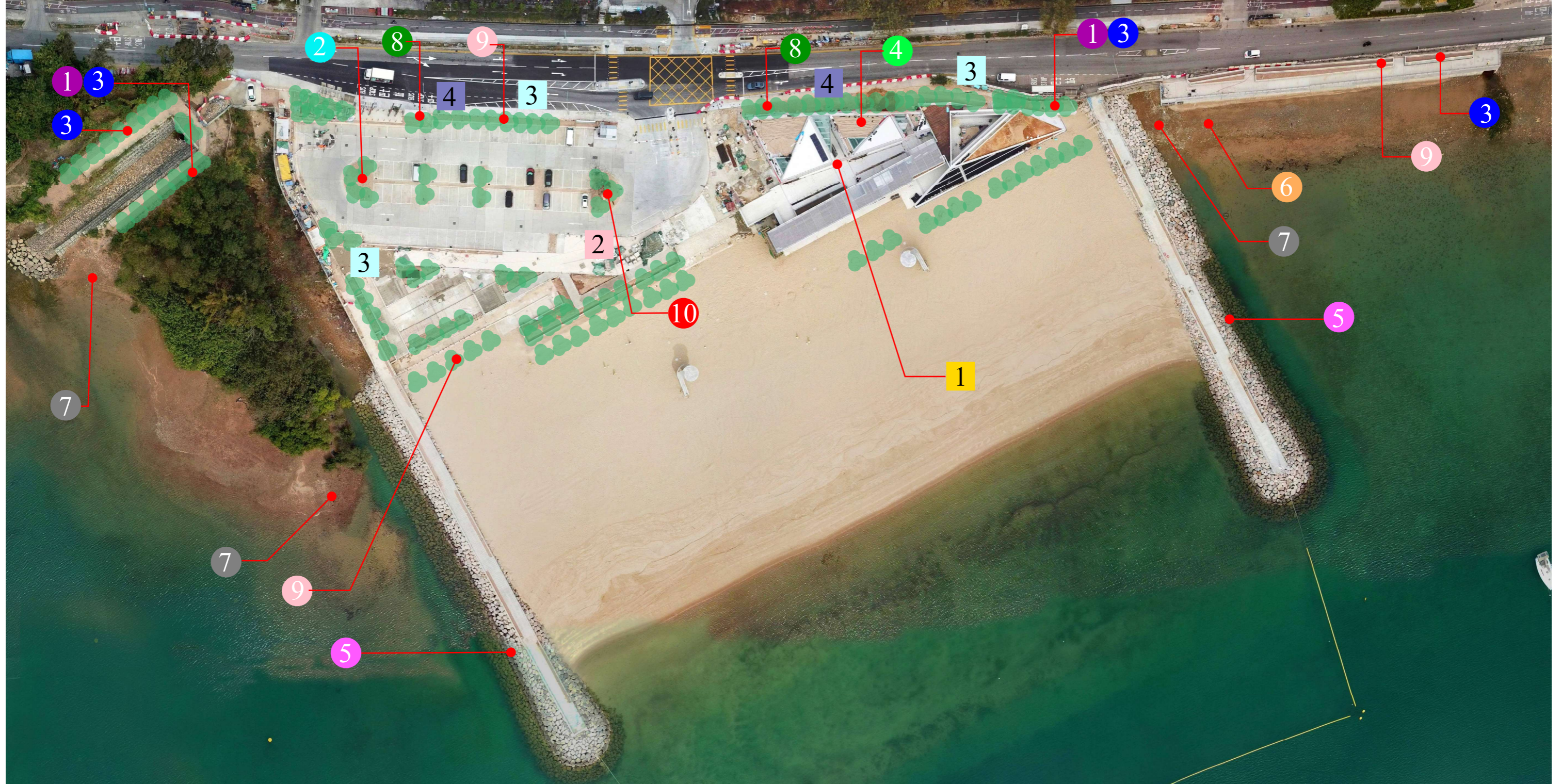
contract
BATHING BEACH AT LUNG MEI, TAI PO

drawing title
DETAILS OF WESTERN GROYPE - SHEET 1 OF 2

drawing no. **PW-1205-404F** scale AS SHOWN

office
 PORT WORKS DIVISION
 CIVIL ENGINEERING OFFICE





LANDSCAPE AND VISUAL MITIGATION MEASURES

- 1** CULTIVATION OF AREAS IMPACTED DURING CONSTRUCTION
Areas impacted during the construction phase that are not required during the operations phase, are to be cultivated to a depth of 300mm in accordance with accepted Hong Kong practices and guidelines.
- 2** CAR PARK TREE PLANTING
Advanced trees are to be planted to provide shade to the car park areas and to reduce the mass of the paved areas.
- 3** TREE AND SHRUB PLANTING
All planting of trees and shrubs is to be carried out in accordance with accepted Hong Kong practices and guidelines. Plant densities are to be provided in future detailed design documents and are to be selected so as to achieve a finished landscape that matches the surrounding, undisturbed, equivalent landscape types. This mitigation measure will require establishment maintenance which will be the responsibility of the project proponent.
- 4** ROOF TERRACE PLANTING
Trees, shrubs and climbers shall be established in planters on the roof terraces or the new structures where technically feasible.

- 5** NATRUAL ROCK GROYNES
The new rock groyne are to utilise natural stone.
- 6** INTER-TIDAL RE-GENERATION
It is likely that a build up of sediment and sand will occur at the outer edges of the rock groyne. This is a natural process and the development proponent has no control over the implementation of this mitigation measure.
- 7** MANGROVE RE-GENERATION
Mangroves of similar species to existing to be established.
- 8** BUFFER PLANTING
Trees and shrubs are to be planted along Ting Kok Road to screen the development from nearby village/ developed area.
- 9** EARLY PLANTING
Works where technically feasible, new plantings are to be installed during the construction works to reduce landscape impacts.
- 10** TREE PROTECTION/TRANSPLANTATION
Where technically feasible, existing trees in the Trees/Backshore Vegetation LR are to be retained. Those trees that cannot be retained that are of value are to be transplanted.

- 1** VVM1 DESIGN OF STRUCTURES
Where possible, built structures will utilise appropriate designs to complement the surrounding landscape. Material and finishes will also be considered during detailed design
- 2** VVM2 COLOURS
Colours for the structures can be used to complement the surrounding area. Lighter colours such as shades of light grey and light brown may be utilised where technically feasible to reduce the visibility of the structures.
- 3** VVM3 PLANTINGS
Appropriate new plantings will be installed as appropriate to help integrate the new structures into the surrounding landscape.
- 4** VVM4 COLOUR OF SITE HOARDINGS
Construction hoardings to be erected at a uniform height with a uniform colour to complement the surrounding landscape.

LANDSCAPE MITIGATION PLAN

PHOTOMONTAGE

(View from Ting Kok Road to the Beach)



VIEWING ANGLE



Given that latest beach building height is significantly reduced, the blank wall which aims at creating an aesthetic view to hidden the beach building is deleted. This photomontage is to provide a visual illustration to the visual mitigation adopted in the building design.

SITE PHOTOS AT STREET LEVEL



VIEW A



VIEW B



VIEW C



VIEW D



AERIAL PHOTO FOR DEMONSTRATING VISUAL MITIGATION MEASURES



VVM3 PLANTINGS

Appropriate new plantings will be installed as appropriate to help integrate the new structures into the surrounding landscape.

VVM2 COLOURS

Colours for the structures can be used to complement the surrounding area. Lighter colours such as shades of light grey and light brown may be utilised where technically feasible to reduce the visibility of the structures.

AERIAL PHOTO FOR DEMONSTRATING VISUAL MITIGATION MEASURES



VVM3 PLANTINGS

Appropriate new plantings will be installed as appropriate to help integrate the new structures into the surrounding landscape.

VVM2 COLOURS

Colours for the structures can be used to complement the surrounding area. Lighter colours such as shades of light grey and light brown may be utilised where technically feasible to reduce the visibility of the structures.

AERIAL PHOTO FOR DEMONSTRATING VISUAL MITIGATION MEASURES



VVM4 COLOUR OF SITE HOARDINGS
Construction hoardings to be erected at a uniform height with a uniform colour to complement the surrounding landscape.

VVM1 DESIGN OF STRUCTURES
Where possible, built structures will utilise appropriate designs to complement the surrounding landscape. Material and finishes will also be considered during detailed design

VVM3 PLANTINGS
Appropriate new plantings will be installed as appropriate to help integrate the new structures into the surrounding landscape.

VVM2 COLOURS
Colours for the structures can be used to complement the surrounding area. Lighter colours such as shades of light grey and light brown may be utilised where technically feasible to reduce the visibility of the structures.

ANNEX B

(implementation programme)

Development of a Bathing Beach at Lung Mei, Tai Po
Landscape Plan

Landscape Implementation Program

	Start	Finish
Tree Felling	30/10/2017	2/11/2017
Tree Transplanting	5/3/2018	7/3/2018
Soiling	Oct 2020	Nov 2020
Planting of Trees	Jan 2021	Jun 2021
Planting of Shrubs	Feb 2021	Jun 2021
Grassing	Feb 2021	Jun 2021

ANNEX C

(maintenance and management schedules)

Maintenance and management schedules

Type	Numbers
Trees to be retained	1
Trees to be fell	127
Trees to be transplanted	15
Compensatory trees	131

Summary of changes in Tree Works under the project

LCSD will manage and maintain the compensatory trees (i.e. 113 nos. out of 131 nos. compensatory trees) at Ting Kok Road, carpark and beach building, groins, eastern box culvert while AFCD will manage and maintain the compensatory trees (i.e. 18 nos. out of 131 nos. compensatory trees) at western open channel western box culvert.

ANNEX D

(comparison between current landscape plan and the one under Review Report for
Final EIA Assessment Study (January 2010))

Summary

In comparison to the detail under Review Report for Final EIA Assessment Study (January 2010), the major change under current landscape plan is the beach building layout. The beach building layout is changed from three structures to four structures with a significant reduction in the height in order to achieve a better “clean and tidy” outlook of the beach building from Ting Kok Road. The change under this landscape plan is still consistent with the one under the Review Report for Final EIA Assessment Study (January 2010). The detail of change is summarized in table below.

Change	Review Report of Final EIA Assessment Study (January 2010)	Latest Details under this Landscape Plan
Overall building height	approximately 9.75m (derived from subtracting 16.30mPD from 6.55mPD; where the maximum building level is at 16.30mPD and the average pavement level is at 6.55mPD)	approximately 4.05m (derived from subtracting 10.60mPD from 6.55mPD; where the maximum building level is at 10.45mPD and the average pavement level is at 6.55mPD)
Deletion of Wall fronting Ting Kok Road	The wall fronting Ting Kok Road is designed to be extended above the main roof level to hide various building services that will be installed on the roof, in order to maintain a “clean and tidy” outlook of the beach building from Ting Kok Road.	The wall fronting Ting Kok Road is deleted as the height of the building is significantly reduced which already achieved “a clean and tidy” outlook of the beach building from Ting Kok Road.
Composition of Block of Structure	Three Structures 1. Management building and other facilities + female/family change room 2. Male change room 3. Food Kiosk	Four Structures 1. Management building, other facilities and Food Kiosk 2. Female change room 3. Male change room 4. Family Change room

Table of Comparison between the tree works numbers under the current scheme and that in the approved EIA report

Type	Number under Approved Final EIA Report in Jan 2010 described in Tree Removal Application dated April 2009	Number under current scheme same as Tree Preservation and Removal Proposal (Revision 03) dated 13/12/2019
Trees to be retained	33	1
Trees to be fell	91	127
Trees to be transplanted	32	15
Compensatory trees	Not mentioned	131

As the time gap between the Final EIA Report and construction of landscape works are very large, i.e almost 10 years, the condition of trees on site changed significantly. The proposed tree works under current scheme were approved under Tree Preservation and Removal Proposal which complies to DEVB TC (Works) No.7/2015.

ANNEX E

(Mangrove Seedling Planting Proposal approved under Condition 3.12)

→ M45-200

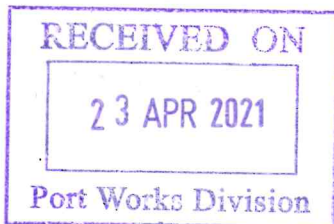
本署檔號
OUR REF: () in EP2/N5/C/46 Pt.9
來函檔號
YOUR REF: () in PW-30-0010-CV1205-M45-600
電話
TEL. NO.: 2835 1186
圖文傳真
FAX NO.: 2591 0558
電子郵件
E-MAIL: adahyfung@epd.gov.hk
網址
HOMEPAGE: http://www.epd.gov.hk

Environmental Protection Department
Branch Office

28th Floor, Southern Centre,
130 Hennessy Road,
Wan Chai, Hong Kong.



環境保護署分處
香港灣仔
軒尼詩道
一百三十號
修頓中心廿八樓



22 April 2021

By Fax (2714 2054)

Civil Engineering and Development Department
4/F, Civil Engineering and Development Building
101 Princess Margaret Rd
Homantin, Kowloon
(Attn: Mr. K F CHAN)

Dear Mr. CHAN,

Environmental Impact Assessment Ordinance, Cap.499
Project Title: Development of a Bathing Beach at Lung Mei, Tai Po
Environmental Permit No. EP-388/2010

Condition 3.12 – Mangrove Seedling Planting Proposal

I refer to your letter, dated 17 March 2021 of which we received on 19 March 2021 submitting the revised Mangrove Seedling Planting Proposal as required under Condition 3.12 of the Environmental Permit No. EP-388/2010.

2. Please be informed that we have no comment on the Proposal. A copy of the Proposal will be placed in the EIAO Register and EIAO Internet Website for public inspection as per EP Condition 1.10. As stipulated in Condition 3.12 of the EP, the mangrove seedling planting works shall be implemented according to the Proposal.

Yours sincerely,

(Ms. Ada H. Y. FUNG)

Environmental Protection Officer
for Director of Environmental Protection

c.c.

WCCL

AUES (ET)

ERM (IEC)

AFCD

(Attn.: Mr. William Lam)

(Attn.: Mr. T W Tam)

(Attn.: Mr. Terence Fong)

(Attn.: Dr. June LEUNG)

Fax: 2682 3222

Fax: 2959 6079

Fax: 2723 5660

Fax: 2377 4427

Internal

S(RN)1 – w/ copy of f(7) f.i., S(SA)6

CE	SE/D	SE/M1	SE/M2	SE/P3	SE/P4	SE/P5	SE/P6	CERS/C1	CERS/C2	E/P30
1/5				6						16
B.U.	C.C.						Cir to			

Environmental Permit No. EP-388/2010

Development of a Bathing Beach at Lung Mei, Tai Po

Independent Environmental Checker Verification

Reference Document/Plan

Document/ Plan to be Certified/ Verified:	Mangrove Seedling Planting Proposal
Date of Report:	4 March 2021
Date received by IEC:	12 March 2021

Reference EP Condition / Updated EM&A Manual Requirement

Environmental Permit Condition / Updated EM&A Manual Reference	Condition 3.12
<p>To mitigate the loss of mangrove seedlings/plants within the site boundary during construction, mangrove seedling plantings of plant species, namely <i>Aegiceras corniculatum</i>, <i>Avicennia marina</i> and <i>Kandelia obovata</i> shall be provided before the commencement of operation. The Permit Holder shall, no later than three months before commencement of mangrove seedling planting works, deposit with the Director three hard copies and one electronic copy of mangrove seedling planting proposal. Before submission to the Director, the proposal shall be certified by the ET Leader and verified by the IEC as conforming to the information and recommendations contained in the approved EIA report (Register No. AEIAR-123/2008). The detailed mangrove seedling planting proposal shall include the following information:</p> <ul style="list-style-type: none">(a) qualification of the specialist(s) to supervise the planting works;(b) number and species of planting;(c) locations of the planting sites;(d) methodology and implementation programme; and(e) detailed schedule for post-plantation maintenance and monitoring of plants. <p>The mangrove seedling planting works shall be implemented according to the planting proposal.</p>	

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-388/2010.

Mr Terence Fong

Date:

12 March 2021

Independent Environmental Checker



Our ref: P:\Projects\0206709 IEC for Lung Mei EM&A\07_ET Submission\38_Mangrove Planting Proposal

Our Ref: TCS00874/16/300/L0693

Welcome Construction Co., Ltd.

Flat 01, 19/F, Westley Square,
48 Hoi Yuen Road,
Kwun Tong, Kowloon.

Attn: Mr. William Lam

12 March 2021

By e-mail

Dear Sir,

**Re: CEDD Contract No. CV/2012/05 - Bathing Beach at Lung Mei, Tai Po
Mangrove Seedling Planting Proposal (Rev.2)**

With reference to the Mangrove Seedling Planting Proposal (Rev.2), we have no adverse comment on the Proposal. We herewith certify the captioned submission in accordance with EP-388/2010 Condition 3.12.

Should you have any queries, 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
TW/nh

CEDD
ERM

Mr. K F Chan
Mr. Terence Fong

via email
via email



偉金建築有限公司
Welcome Construction Co., Ltd.

(偉金企業成員)
(A member of Welcome Enterprises)

安全環保齊用心 • 優質工程在偉金

Our Ref : (1579d) in DPI-WCCL-CV201205-21-101

Your Ref :

By Hand

4 March 2021

Port Works Division, Civil Engineering Office, CEDD
4/F, Civil Engineering and Development Building
101 Princess Margaret Road
Kowloon, Hong Kong

Attn.: Mr. K.F. Chan (The ER) and Mr. Jason Cheung (The ER)

Dear Sir,

Contract No. CV/2012/05

Bathing Beach at Lung Mei, Tai Po

Proposal of Mangrove Seedlings/Plants at Lung Mei rev 2

Pursuant to PS3.12, we would like to submit the Proposal of Mangrove Seedlings/
Plants at Lung Mei and request ET Leader and IEC to certify and verify the Proposal
of Mangrove Seedlings/Plants for commencement of works.

Yours Faithfully,

For and on behalf of

Welcome Construction Co. Ltd.

William Lam

Site Agent

WL/wl

c.c. ER's Site Office

Contract No. CV/2012/05 Bathing Beach at Lung Mei, Tai Po

Proposal of Mangrove Seedling Planting rev 2

1. Introduction

1.1 Refer to EP condition 3.12, a detailed mangrove seedling planting proposal shall be submitted to mitigate the loss of mangrove seedlings/ plants within the site boundary during construction, mangrove seedling plant of plant species, namely *Aegiceras corniculatum*, *Avicennia marina* and *Kandelia obovata* shall be provided.

2. Qualification of the specialists to supervise the planting works

2.1 Hong Kong Landscape Company Limited who is an approved supplier of material and specialist contractors for Public Works will be undertaken to supervise the planting works with Mangrove planting experience (see Appendix 1).

3. Number and species of planting

3.1 Refer to EIA Report Clause 8.10.3- Compensation, approximately 80 mangrove seedlings/plants (with a height below 0.5m) within the Project Site may be removed during construction. As an additional measure to further minimize the ecological impact, the mangrove seedling planting is proposed to be undertaken along the outsides of the groynes and western drainage channel at a level of about 1.2 to 1.6 mPD. The planting mix was recommended at a ratio 1:1:1 for *Aegiceras corniculatum*, *Avicennia marina* and *Kandelia obovata*. Assuming the planting distance between each planting individual will be 0.9m, a total of approximately 382 mangrove seedlings will be provided.

3.2 The number and species of planting as shown in Appendix 2, i.e.

- a. 127 nos of *Aegiceras Corniculatum*
- b. 127 nos of *Avicennia Marina*
- c. 128 nos of *Kandelia Obovata*

4. Location of the planting sites

4.1 There are 3 planting locations that are at Portion B near Western Open Channel and Western Groyne and also near Eastern Groyne at the tidal zone of 1.2 to 1.6 mPD as shown in Appendix 3.

5. Methodology and implementation programme

- i. The mangrove seedling/plants will be delivered and inspected before planting;
- ii. The planting will be spaced out with about 0.5m centre to centre in accordance to the planting layout (see Appendix 2);
- iii. The planting will be scheduled when it is at low tide of about 0.5 to 1.0 mPD;
- iv. A hole of about 75mm diameter and 100mm deep will be dug onto the ground for planting the mangrove seedling/plant then tamper lightly until the mangrove is securely upright on the ground and not easily washed out by the tide;
- v. The planting is scheduled in late March 2021 or earlier if consent is given by EPD which will be completed in 2 days.

6. Detailed schedule for post plantation maintenance and monitoring of plants

6.1 After planting, 1-year monitoring will be undertaken to check the performance and health conditions of the planted individuals on a monthly basis. Remedial actions will be discussed with AFCD in the event of unsuccessful mangrove seedling planting and follow an approved Event and Action Plan as indicated in Table 7.1. of the EM&A Manual. (refer to Appendix 4)

6.2 The mangroves will be monitored monthly at the 4th week to ensure they are in good condition by the Hong Kong Landscape Co. Ltd.

6.3 The monitoring will be by visual inspection and the seedlings will be fixed and kept in position should it be affected by the tidal wave or physical disturbance;

6.4 Manual removal of the weed Mikania Micrantha will be carried out as needed;

6.5 Event and Action Plan for Mangrove Seedling Planting under the EM&A Manual Table 7.1 will be followed:

- a. Monthly monitoring will be stepped up to bi-weekly when more than 25% of mortality of mangrove seedling is observed and will notify the relevant government departments (i.e EPD & AFCD);
- b. Bi-weekly monitoring will be stepped up to weekly when 50% mortality mangrove seedling is recorded during the establishment of planting. A proposal for remedial measure and action plan will be submitted to EPD or AFCD for approval.

Prepared by

William Lam (Site Agent)

Contract No. CV/2012/05

4/3/2021

Appendix 1

HONG KONG LANDSCAPING CO., LTD.

JOB REFERENCES FOR MANGROVES

CONTRACT NO.	SITE OF WORKS	MAIN CONTRACTOR	WORKING YEARS
CV/2013/08	Liantang / Heung Yuen Wai Boundary Control Point, Site Formation and Infrastructure Works - Contract 6 Landscaping Works (wetland planting)	CRBC - CEC - Kaden Joint Venture	2015 - New
DC/2011/04	Reconstruction, Improvement and Rehabilitation of Kai Tak River from Wong Tai Sin Police Station to Tung Tau II Estate Landscaping Works	Leader Civil Engineering Corporation Ltd.	2012 - New



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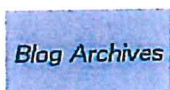
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List of Approved Suppliers of Materials and Specialist Contractors for Public Works

Firms included in the List are published below for general information. The List may include suppliers/specialist contractors who at the present time are suspended from tendering for public works contracts. Suppliers/specialist contractors in the List, unless suspended, may tender for public works contracts only in the works categories, classes and groups for which they are approved.

Category, Class and Group Description

Category: Landscaping

Group: All

Class: All

Search

Position as at 29 Nov 2020

Total No. of Matched: 19

Name of Supplier/Specialist Contractor	Category/Categories in which Supplier/Specialist Contractor is included
Asia Landscaping Limited	Landscaping (Class I) (Group II)
	Landscaping (Class II) (Group II)
Bluet Garden Limited	Landscaping (Class I) (Group I)
	- On probation
Bluet Hydroseeding Limited	Landscaping (Class II) (Group II)
Chun Hing Landscaping Company Limited	Landscaping (Class I) (Group I)
	- On probation
City Landscaping Co. Limited	Landscaping (Class I) (Group II)
Greenland Resources Limited	Landscaping (Class I) (Group II)
	- On probation
	Landscaping (Class II) (Group II)
	- On probation
Hong Chui Landscape Company Limited	Landscaping (Class I) (Group I)
	- On probation
Hong Da Landscaping Limited	Landscaping (Class I) (Group I)
	- On probation
Hong Kong Landscaping Company Limited	Landscaping (Class I) (Group II)
	Landscaping (Class II) (Group II)
Meloffield Nursery and Landscape Contractor Limited	Landscaping (Class I) (Group II)
Oriental Landscapes Limited	Landscaping (Class I) (Group II)
	Landscaping (Class II) (Group II)
Pegasus Greenland Limited	Landscaping (Class I) (Group II)
	Landscaping (Class II) (Group II)
Tak Tai Enviroscap Limited	Landscaping (Class I) (Group II)
Tarzan Landscape Contractors Limited	Landscaping (Class I) (Group II)
Toyo Greenland Company Limited	Landscaping (Class I) (Group II)
	Landscaping (Class II) (Group II)
Tung Kee Garden Horticulture Limited	Landscaping (Class I) (Group II)
Wah On Garden Landscaping Limited	Landscaping (Class I) (Group II)

Wing Ho Yuen Landscaping Company Limited
Yee Sun Garden Limited

Landscaping (Class I) (Group II)
Landscaping (Class I) (Group II)
Landscaping (Class II) (Group I)

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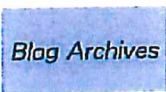
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Category, Class and Group Description

Categories	Suppliers	Specialist Contractors
Air-conditioning Installation		X
Audio Electronics Installation		X
Broadcast Reception Installation		X
Burglar Alarm and Security Installation		X
Catering Equipment Installation		X
Design, Manufacture and Installation of Glass (or Fibre) Reinforced Plastic Units		X
Diesel Generator Installation		X
Electrical and Mechanical Installation for Sewage Treatment and Screening Plant		X
Electrical Installation		X
Electronic Timing and Display Installation		X
Fabrication of Steel Pipe Specials		X
Fabrication of Unfired Pressure Vessels		X
Fire Service Installation		X
Fountain Installation		X
Ground Investigation Field Work		X
Industrial Type Electrical Installation		X
Land Piling		X
Land, Engineering and Hydrographic Survey Services		X
Landscaping		X
Landslip Preventive/Remedial Works to Slopes/Retaining Walls		X
Lift, Escalator and Passenger Conveyor Installation		X
Liquefied Petroleum Gas Installation		X
Low Voltage Cubicle Switchboard Installation		X
Mechanical Handling and Lifting Installation		X
Mechanical Plant and Equipment Installation		X
Motor Vehicle Body-Building and Painting		X
Plumbing Installation		X
Prestressed Concrete Works for Highway Structures	X	X
Radio Electronics Installation		X
Repair and Restoration of Historic Buildings		X
Repair of Motors, Transformers and Switchgear		X
Road Marking		X
Soil and Rock Testing		X
Space Frame Systems	X	X
Specialized Operations for Highway Structures		X
Steam and Compressed Air Installation		X
Structural Steelwork		X
Supply and Installation of Bearings for Highway Structures		X
Supply and Installation of Expansion Joints for Highway Structures		X
Supply and Installation of Pumpssets and Associated Pipework		X

Supply and Installation of Water Treatment Plant		X
Supply of Bituminous Pavement Materials and Construction of Special Bituminous Surfacing	X	X
Survey of Government Land Pressure Receivers subject to Steam and Air Pressure (but excluding Steam Boilers)		X
Survey of Government Land Steam Boilers		X
Survey of Lifting Appliances and Lifting Gear		X
Swimming Pool Water Treatment Installation		X
Transparent Panels for Noise Barriers on Highways [formerly named as "Prefabricated Architectural Walls and Finishes (Screens, Sound Barriers and Retaining Walls)"]	X	
Turn-key Interior Design and Fitting-out Works		X
Uninterruptible Power Supply Installation		X
Video Electronics Installation		X

Class and Group Description

Air-conditioning Installation,
Group I - Contracts/Sub-contracts up to \$5.7 million
Group II - Contracts/Sub-contracts of unlimited value

Electrical Installation,
Group I - Contracts/Sub-contracts up to \$2.3 million
Group II - Contracts/Sub-contracts up to \$5.7 million
Group III - Contracts/Sub-contracts of unlimited value

Fire Service Installation,
Group I - Contracts/Sub-contracts up to \$2.3 million
Group II - Contracts/Sub-contracts of unlimited value

Ground Investigation Field Work,
Group I - Contracts/Sub-contracts up to \$2.3 million
Group II - Contracts/Sub-contracts of unlimited value

Land Piling,
Group I - Contracts/Sub-contracts up to \$3.4 million
Group II - Contracts/Sub-contracts of unlimited value

Landscaping,
Class I - General Landscape work
Class II - Hydroseeding
Group I - Contracts/Sub-contracts up to \$2.3 million
Group II - Contracts/Sub-contracts of unlimited value

Mechanical Plant and Equipment Installation,
Group I - Contracts/Sub-contracts up to \$1.1 million
Group II - Contracts/Sub-contracts of unlimited value

Plumbing Installation,
Group I - Contracts/Sub-contracts up to \$2.3 million
Group II - Contracts/Sub-contracts of unlimited value

Prestressed Concrete Works for Highway Structures,
Class I - Supply and Installation of Prestressing Systems
Class II - Supply of Prestressed Concrete Units

Specialized Operations for Highway Structures,
Class I - Guniting
Class II - Waterproofing of concrete surfaces
Class III - Repair of cracked concrete by resin injection
Class IV - Non-destructive testing of welds
Class V - Hot dip galvanising

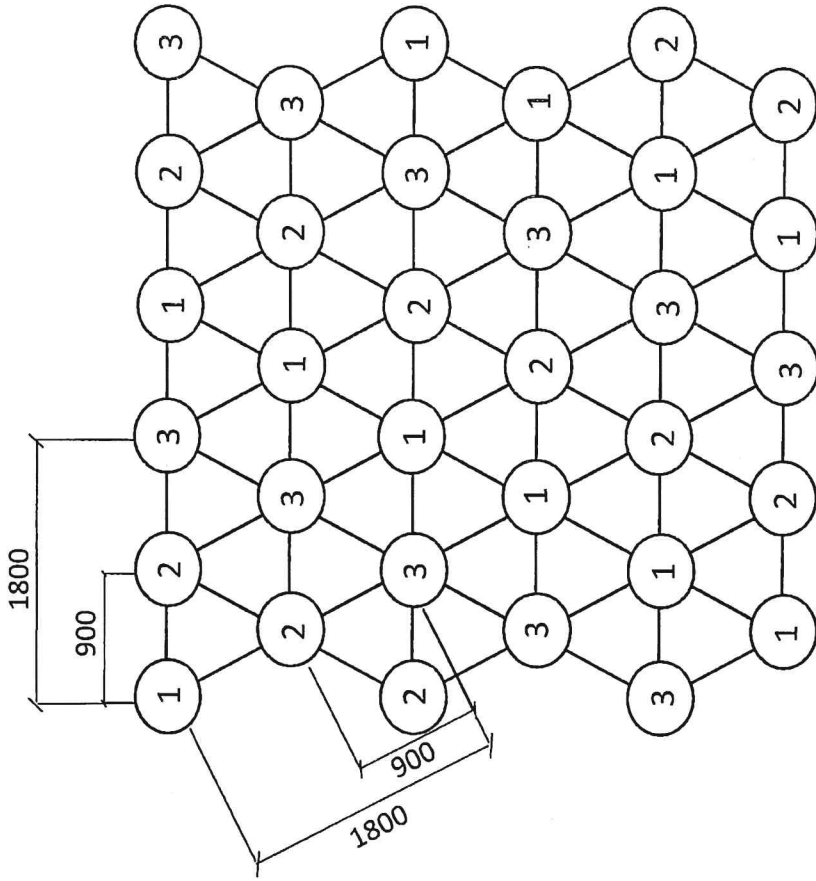
Supply and Installation of Bearings for Highway Structures,
Class I - Mechanical bearings
Class II - Elastomeric bearings

Turn-key Interior Design and Fitting-out Works,
Group I - Eligible to be awarded one contract as a Trade Test
Group II - Eligible to be awarded more than one contract at any one time

Note: Suppliers/specialist contractors in the List, unless suspended, may tender for public works contracts only in the works categories, classes and groups for which they are approved.

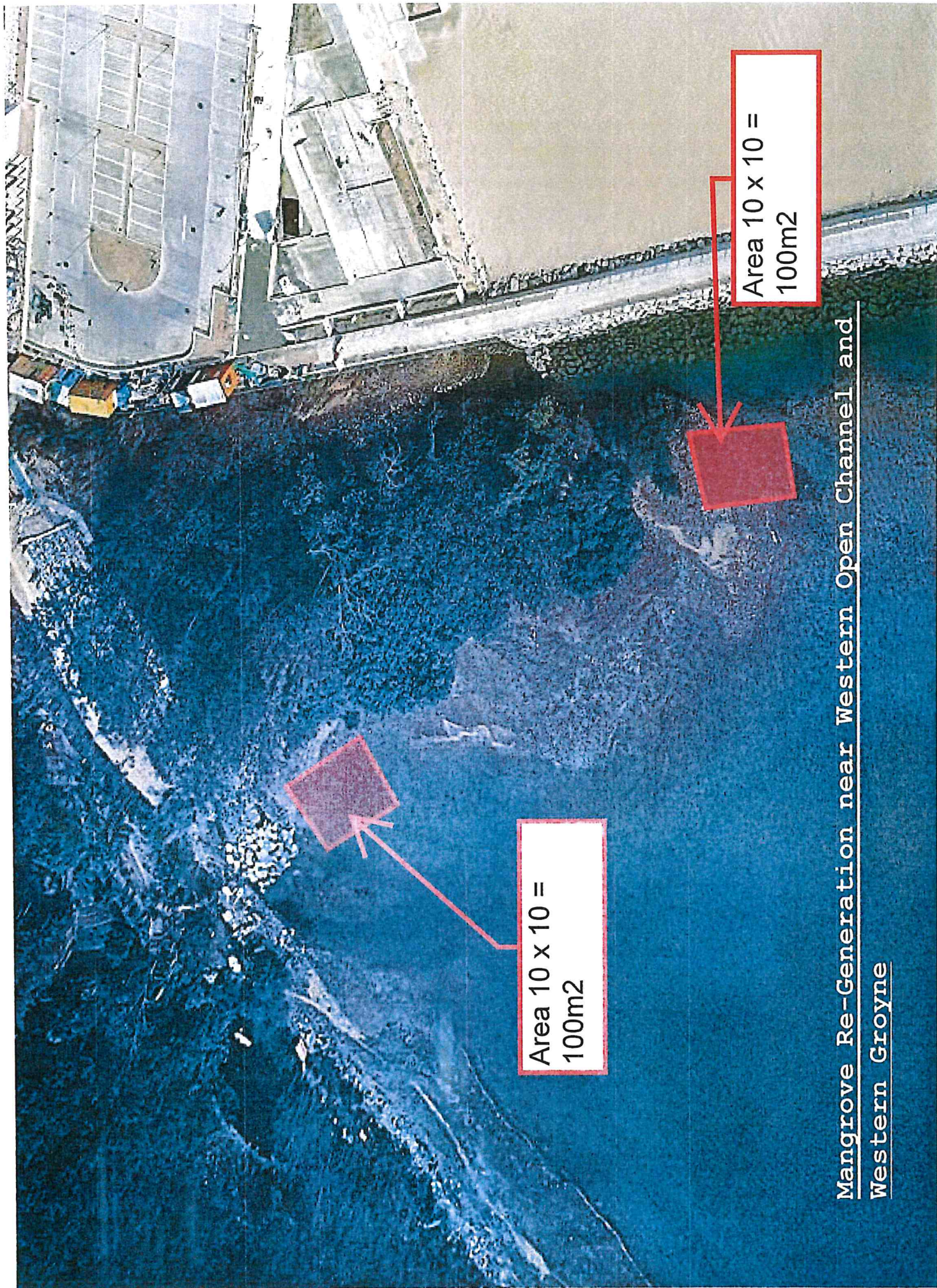
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Appendix 2



PLANTING MATRIX FOR
MANGROVE MIX PLANTING

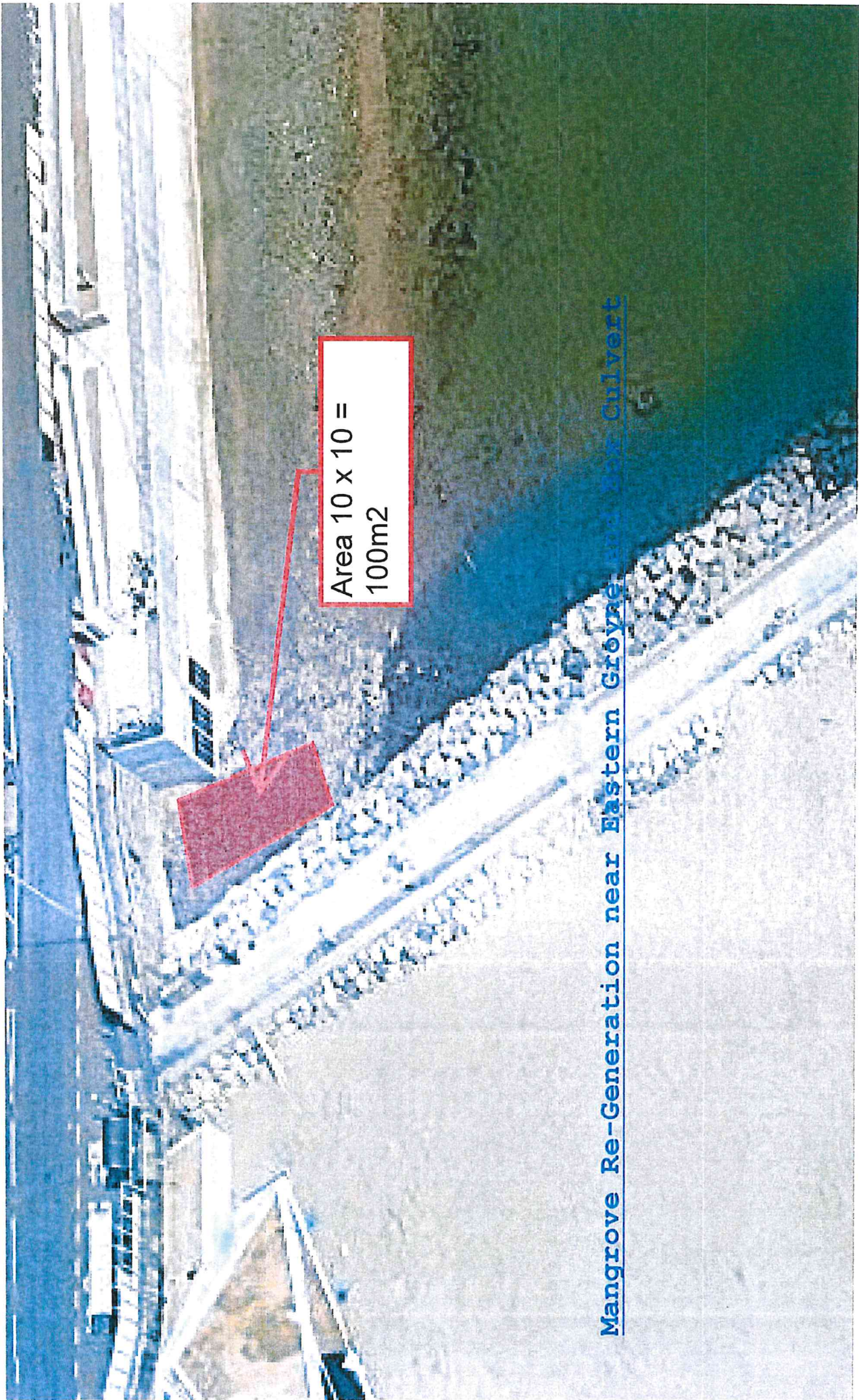
CODE	NAME	QTY
1	Avicennia Marina	127
2	Aegiceras Corniculatum	127
3	Kandelia Obovata	128



Area 10 x 10 =
100m²

Area 10 x 10 =
100m²

Mangrove Re-Generation near Western Open Channel and Western Groyne



Area 10 x 10 =
100m²

Mangrove Re-Generation near Eastern Groynes and Box Culvert

Appendix 3

NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. ALL CO-ORDINATES REFER TO KING LONG.
 3. GEODETIC DATUM 1980 AND ARE IN METRES.

LEGEND:
 - - - - - SITE BOUNDARY
 [Pattern] PORTION A
 [Pattern] PORTION B
 [Pattern] PORTION C

NO.	DATE	DESCRIPTION	DESIGNED BY	DATE
REVISION				
1	11.04.2012	ISSUED FOR TENDER	A. H. CHENG	11.04.2012
2	27.04.2012	ISSUED FOR TENDER	S. P. LEUNG	27.04.2012
3	27.04.2012	ISSUED FOR TENDER	S. P. LEUNG	27.04.2012
4	27.04.2012	ISSUED FOR TENDER	T. W. POON	27.04.2012

STAGED
 1:500
 DATE 27.04.2012

drawing no. 017/2012/05
 title no.
 project no. 5238/RS
 contract

BATHING BEACH AT LUNG MEI, TAI PO

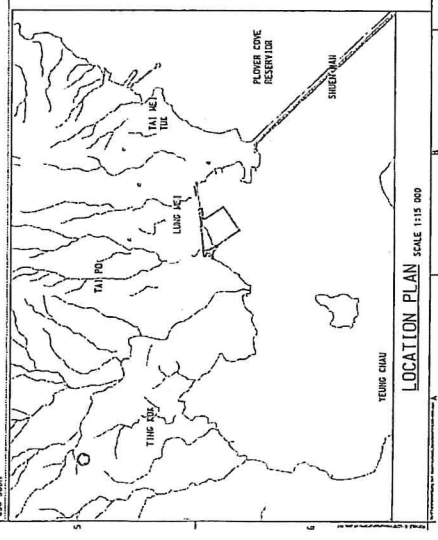
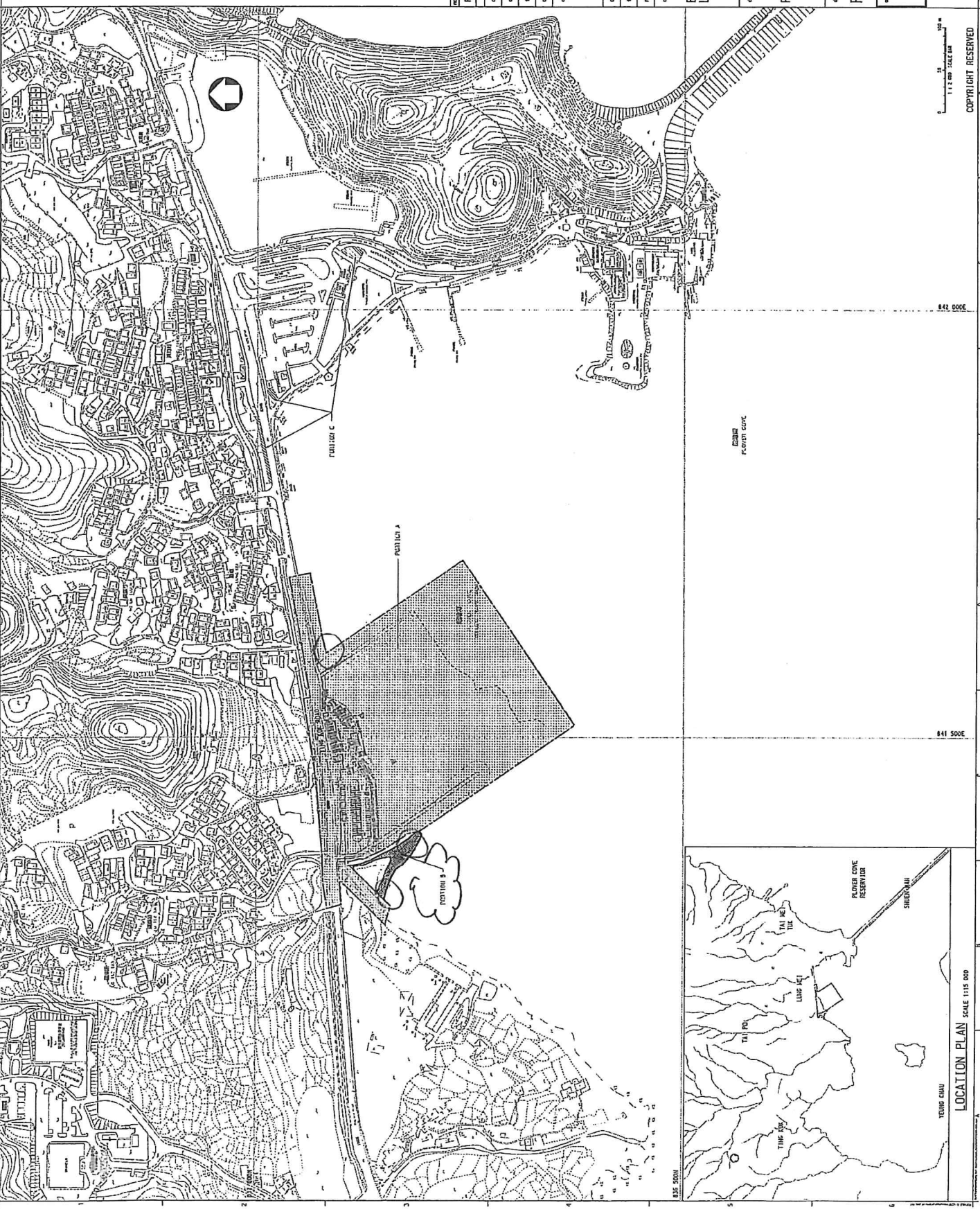
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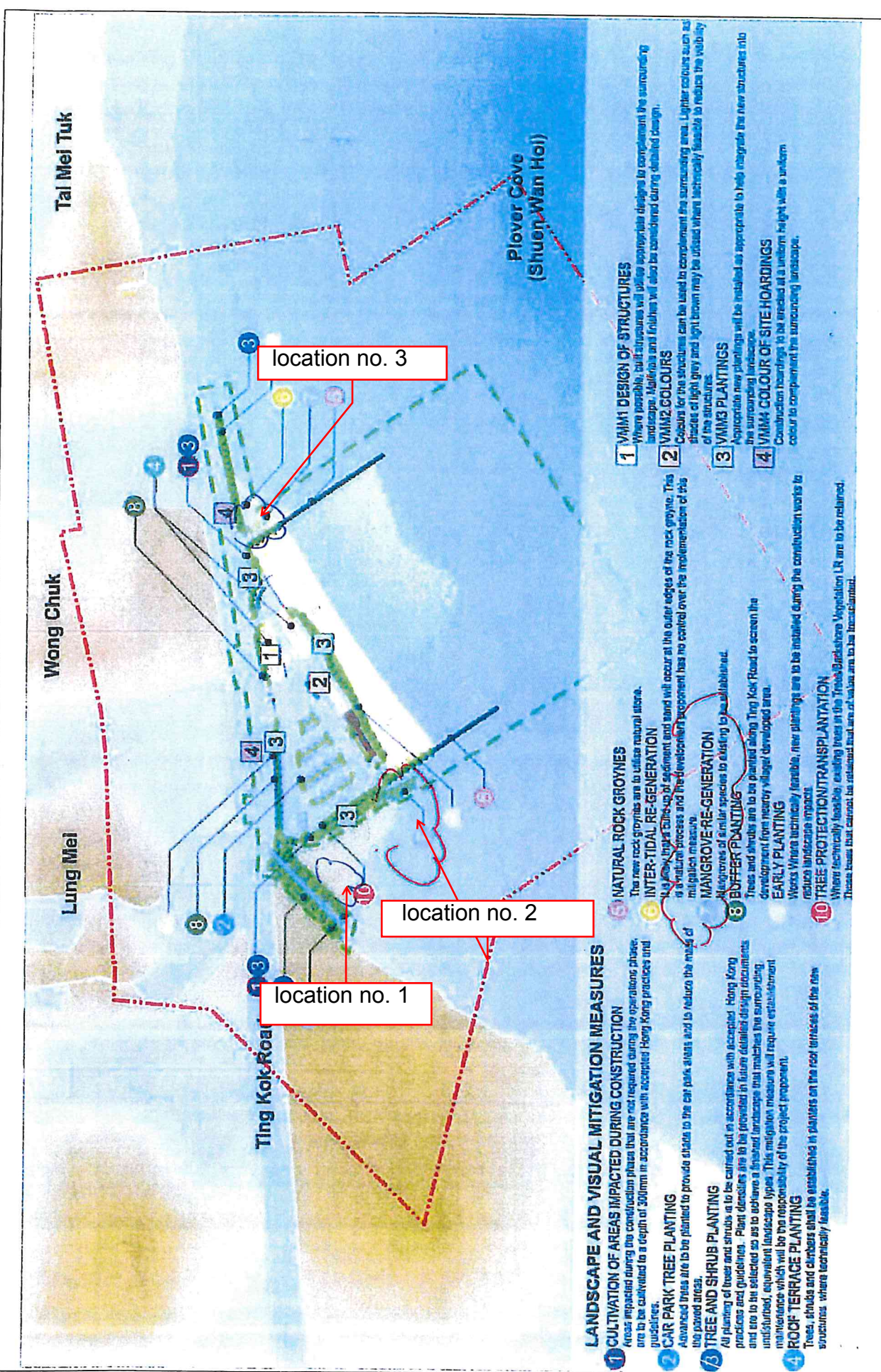
PORTIONS OF THE SITE

sheet 1 of 2
 PW-1205-003

office PORT WORKS DIVISION
 CIVIL ENGINEERING OFFICE

CEDD
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT





LANDSCAPE AND VISUAL MITIGATION MEASURES

- 1 CULTIVATION OF AREAS IMPACTED DURING CONSTRUCTION**
Areas impacted during the construction phase that are not required during the operations phase, are to be cultivated to a depth of 300mm in accordance with accepted Hong Kong practices and guidelines.
- 2 CAR PARK TREE PLANTING**
Advanced trees are to be planted to provide shade to the car park areas and to reduce the noise of the paved areas.
- 3 TREE AND SHRUB PLANTING**
All planting of trees and shrubs is to be carried out in accordance with accepted Hong Kong practices and guidelines. Plant densities are to be provided in future detailed design documents and are to be selected so as to achieve a finished landscape that matches the surrounding undisturbed, equivalent landscape types. This mitigation measure will require establishment maintenance which will be the responsibility of the project proponent.
- 4 ROOF TERRACE PLANTING**
Trees, shrubs and climbers are to be established in planters on the roof terraces of the new structures, where technically feasible.
- 5 NATURAL ROCK GROYNES**
The new rock groynes are to utilize natural stone.
- 6 INTER-TIDAL RE-GENERATION**
Any new inter-tidal setup of sediment and sand will occur at the outer edges of the rock groyne. This is a natural process and the development component has no control over the implementation of this mitigation measure.
- 7 MANGROVE RE-GENERATION**
Remnants of a similar species to existing to be established.
- 8 BUFFER PLANTING**
Trees and shrubs are to be planted along Ting Kok Road to screen the development from nearby village developed area.
- 9 EARLY PLANTING**
Works where technically feasible, new plantings are to be installed during the construction works to reduce landscape impacts.
- 10 THREE PROTECTION/TRANSPLANTATION**
Where technically feasible, existing trees in the Ting Kok Road Vegetation LR are to be retained. Those trees that cannot be retained outside of works area to be transplanted.

- 1 VMM1 DESIGN OF STRUCTURES**
Where possible, building facades will utilize appropriate designs to complement the surrounding landscape. Materials and finishes will also be considered during detailed design.
- 2 VMM2 COLOURS**
Colours for the structures can be used to complement the surrounding area. Lighter colours such as shades of light grey and light brown may be used where technically feasible to reduce the visibility of the structures.
- 3 VMM3 PLANTINGS**
Appropriate new plantings will be installed as appropriate to help integrate the new structures into the surrounding landscape.
- 4 VMM4 COLOUR OF SITE HOARDINGS**
Construction hoardings to be erected at a uniform height with a uniform colour to complement the surrounding landscape.

	CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	 Halcrow China Ltd.	 Environmental Resources International as sub-consultant	Agreement No: CE 59/2005(EP)	Figure Title: DEVELOPMENT OF A BATHING BEACH AT LUNG MEI, TAI PO	ENVIRONMENTAL IMPACT ASSESSMENT REPORT	FIGURE 10.19
				Project Title:	Scale: 1:2500 @ A3	Rev: 2	
				Designer: SL	Checker: SL	Date: 31/05/2007	

Appendix 4

Development of a Bathing Beach at Lung Mei, Tai Po

7.2.3.9 Post-Translocation Monitoring

After translocation is completed, the reception site shall be monitored regularly by the qualified Fish Specialist over a period of one year, following the same survey methodology for the pre-translocation monitoring.

The Post-translocation Monitoring Report shall be submitted monthly which shall present findings of all seahorse surveys undertaken in the reporting month. Each monthly Post-translocation Monitoring Report shall be submitted within two weeks of completion of the last seahorse survey in the reporting month.

7.2.3.10 Post-construction Monitoring

Post-construction monitoring shall be undertaken at the installed shark net during the maintenance period of the Project. The shark net shall be inspected by the qualified Fish Specialist using SCUBA to search for the presence of any seahorse species. Monitoring shall commence three months after installation of the shark net. Quarterly monitoring shall be undertaken until the end of the maintenance period of the Contract. A Quarterly Post-construction Monitoring Report shall be submitted within two weeks of completion of the quarterly monitoring survey to present ecological information of the seahorse found, if any, along the shark net.

7.3 Construction Phase

For the mitigation measures and monitoring requirement to minimise the water quality impact to the marine ecology during the construction phase of the Project, details should be referred to *Appendix E*.

Good construction site practices (*Appendix E*) should be adopted to minimise the potential ecological impacts during the construction phase of the Project.

7.4 Operational Phase

Due to the loss of some mangrove plants and seedlings recorded within the Proposed Beach Development, EIA has recommended mangrove seedling planting should be implemented before the operation of the beach. The mangrove seedling planting location is proposed along the diverted eastern box culvert (Figure 10.19 of EIA Report Section 10) with a total of approximately 382 mangrove seedlings to be provided. The planting mix is proposed to be at a ratio 1:1:1 for *Aegiceras corniculatum*, *Avicennia marina* and *Kandelia obovata*. Detailed mangrove planting proposal providing information of planting methodology, recipient site, planting species and mix, implementation programme, post-planting monitoring and personnel involved shall be submitted to and approved by EPD and AFCD. Mangrove seedling planting would be undertaken and supervised by a suitably qualified botanist/horticulturist.

After planting, 1 year monitoring will be undertaken to check the performance and health conditions of the planted individuals on a monthly basis. Remedial actions will

Development of a Bathing Beach at Lung Mei, Tai Po

be discussed with AFCD in the event of unsuccessful mangrove seedling planting and follow an approved Event and Action Plan as indicated in *Table 7.1*.

Development of a Bathing Beach at Lung Mei, Tai Po

Table 7.1 Event and Action Plan for Mangrove Seedling Planting

Monitoring Criteria	Event	Action	
		Environmental Team Leader/ Environmental Manager (employed by CEDD)	CEDD
Mangrove Seedling Survival	More than 25% of mortality of mangrove seedling recorded during the establishment of planting.	1. Notify CEDD and check with horticulturist to find out the cause of the event(s).	1. Identify and report the cause(s) of the event.
		2. Undertake bi-weekly monitoring to observe the growth performance of the seedling. The normal monitoring schedule will be resumed if the cause(s) of the event have been identified.	2. Notify relevant government departments (ie EPD and AFCD).
	More than 50% of mortality of mangrove seedling recorded during the establishment of planting.	1. Notify CEDD and check with horticulturist to find out the cause of the event(s).	1. Identify and report the cause(s) of the event.
		2. Undertake weekly monitoring to observe the growth performance of the seedling. The normal monitoring schedule will be resumed if the cause(s) of the event have been identified.	2. Submit proposals to relevant government departments (ie EPD and AFCD) for remedial action and implement the action to solve the event.