

Your ref. -
Our ref 5207869/18.30/OC174/AL/DL/SW/IW/JC/fl

Date 17 June 2022

By Post and Email

Environmental Protection Department
Environmental Assessment Division
Strategic Assessment Group
Sheung Shui, Fanling, Tai Po Section (6)
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Wan Chai, Hong Kong

Attn: **Ms. FUNG Hoi Ying, Ada**
Env Protection Offr (Strategic Assessment) 62

Dear Madam,

Agreement No. CE 32/2021 (CE)
Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier
- Design and Construction
Environmental Permit No. EP-587/2021
Submission of Construction Works Schedule and Location Plans

Pursuant to Conditions 2.10 of the EP No. EP-587/2021, we hereby submit the Construction Works Schedule and Location Plans for the captioned Project at Tung Ping Chau Public Pier.

The aforesaid submission has been certified by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC). The ET certification and the IEC verification letters have been enclosed for your record.

Should you have any queries regarding the above, please feel free to contact our Mr. Grace Yang (Email: Grace.Yang@atkinsglobal.com) at 2972 1173 or Mr. Joe Chiu (Email: Joe.Chiu@atkinsglobal.com) at 2972 1119.

Yours faithfully,
For and on behalf of
Atkins China Ltd



Dickson LAW
Project Manager

Response required	No.
Due date	N/A
Attachment	(1) Construction Works Schedule and Location Plans (3x hard copies+1xCD) (2) ET Certification and IEC Verification Letters

cc CEDD/CEO - Mr. CHIK Kan To (Project Coordinator /Projects 3 A) (w/o)
Wilson Acoustic limited - Mr. Morgan Cheng (IEC) (w/o)

Our ref	5207869/18.30/OC174/AL/DL/SW/IW/JC/fl
Title	Submission of Construction Works Schedule and Location Plans
Date	17 June 2022

Attachment 1

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Construction Works Schedule and Location Plans



Agreement No. CE 32/2021 (CE) Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier -Design and Construction

Construction Works Schedule and Location Plan for
Tung Ping Chau Public Pier
(5207869-OR014B-00)

7 June 2022

Distribution

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Appendix A	Construction Programme for Tung Ping Chau Public Pier
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Appendix C	General Arrangement for Tung Ping Chau Public Pier

Not Used

1. Introduction

1.1 Background

1.1.1 Hong Kong is an international metropolis and comprises many natural scenic spots, rare geological features, attractions with traditional culture and heritage, and hiking trails with rich biological diversity. The famous Hong Kong UNESCO Global Geopark (Geopark), Marine Parks, old temples, eco-tourism sites and beautiful beaches in coastal areas are some examples. Many attractions are located at remote rural areas without land access and rely on marine transport. In recent years, number of local and non-local visitors attracted to these remote destinations has been constantly increasing.

1.1.2 Public piers play an important role in accessing these remote destinations. There are about 120 public piers in Hong Kong. Majority of these piers are built, maintained and managed by the Government.

1.1.3 Although regular inspections and maintenance for the remote public piers are carried out by the Government to ensure its structural integrity, some public piers at remote rural areas have been in place for many years and cannot cope with the current needs / usages, such as:

- a) small or primitive piers leading to safety concerns during berthing and unsatisfactory boarding conditions especially for kids and elderly;
- b) inadequate depth of water for berthing during low tide;
- c) limited berthing space or narrow accesses which cannot cater for the fluctuating utilization during festive times or weekends; and
- d) aged pier structures with a need for improvement works.

1.1.4 Civil Engineering and Development Department (CEDD) commissioned an Investigation Study (IS), “Study for Pier Improvement at Lai Chi Wo and Tung Ping Chau – Investigation” (Agreement No. CE 2/2018 (CE)), in June 2018 to verify the technical feasibility of improving two potential pier items located within Yan Chau Tong Marine Park and Tung Ping Chau Marine Park in the northeast region of Hong Kong. The improvement of these two piers are designated project under Item Q.1, Part 1 of Schedule 2 of the EIAO.

1.1.5 EIA study has been carried out in accordance with the requirement of the EIA Study Briefs including assessment of the potential environmental impacts, in particular water quality impact and ecological impact, and specified environmental monitoring and audit requirements to ensure the effective implementation of the recommended environmental protection and mitigation measures. The EIA Reports of the two piers were approved by DEP under the EIAO on 29 December 2020 and Environmental Permits (EPs) for construction and operation of the improvement works were granted on 19 February 2021. The EIA study made recommendations on the scope of improvement to the Lai Chi Wo Pier and Tung Ping Chau Public Pier with preliminary engineering studies for individual pier taking into account public aspiration and other constraints, prepared preliminary engineering layouts, and evaluated the feasibility of adopting innovative design elements for the piers.

1.1.6 Atkins China Ltd. was commissioned by the Civil Engineering and Development Department of the Hong Kong Government Special Administrative Region on 16 September 2021 to provide consultancy services for Agreement No. CE 32/2021 (CE) Design Consultancy for Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier - Design and Construction (hereinafter called “the Assignment”).

1.2 Scope of the Assignment

1.2.1 The scope of the Assignment comprises:

- a) Demolition/reconstruction/re-provision/modification of Lai Chi Wo Pier and Tung Ping Chau Public Pier (hereinafter referred to as “the Piers”);
- b) Provisioning of temporary piers during construction phase;
- c) Following up outstanding issues listed in the approved EIA reports for the improvement works of the two piers and carrying out necessary review for any issues that would affect the assessment results and recommendations of the approved EIA reports, such as modification/revision of the preliminary engineering layout and design of the piers produced by the Investigation Study;
- d) Incorporation of associated structural works, architectural works, electrical and mechanical (E&M) works, navigation lights and marine facilities, greening and landscape works, utilities, environmental monitoring and mitigation measures, and other related works as appropriate;
- e) Adoption of Building Information Modelling (BIM) to enhance design process and collaboration with cost and time effectiveness throughout the project life cycle; and
- f) Providing services relating to the use of New Engineering Contract (NEC) for the works contracts.

1.3 Objectives of the Assignment

1.3.1 The objective of the Assignment is to enable the Piers, namely, **Lai Chi Wo Pier** and **Tung Ping Chau Public Pier** under the Project to be satisfactorily designed, constructed and commissioned in a cost-effective manner, on time and within budget. The Consultants shall provide services to implement and deliver the Project by way of reviews, surveys, impact assessments, stakeholder consultation, detailed designs, tendering, project administration, construction supervision and commissioning of the proposed works as detailed in Clause 2 of the Brief (except otherwise stated) in accordance with an agreed programme and to the satisfaction of the DR.

1.3.2 The main objectives of the Assignment are to:

- a) Conduct review of the preliminary engineering studies and carry out detailed design for each of the Piers taking into account public aspiration and other constraints and the recommendations of the Investigation Study, as well as the EIA Reports and EP conditions as stated in (b) below;

- b) Study the approved Environmental Impact Assessment Reports prepared under the Investigation Study and examine in details the requirements and conditions of the Environmental Permits in meeting the requirements of the relevant authorities;
- c) Review the environmental monitoring and audit requirements recommended under the EIA Study to ensure the effective implementation of the recommended environmental protection and mitigation measures;
- d) Evaluate the innovative design elements and carry out detailed innovative design for each of the Piers, including but not limited to floating platform, barrier-free facilities and prefabrication design, etc. recommended in the Investigation Study;
- e) Collect and review opinions from stakeholders and the public to enhance the design of the Project;
- f) Assist to gain supports from stakeholders, the public, district councils, and other statutory Councils and Committees to facilitate preparation of the PWSC paper and funding approval;
- g) Produce tender documents, invite tenders and complete the tendering process for the Works/works package(s); and
- h) Administer and supervise all construction works, works contract(s) and, where appropriate, service contract(s) of the Project.

1.4 Objective of this Report

1.4.1 In accordance with Clause 6.3.8.1 (b) (ii) of the Brief and Condition 2.10 of Environmental Permit EP-587/2021, the Construction Works Schedule and Location Plans for Tung Ping Chau Public Pier shall consist of the followings:

- a) a detailed phasing programme of all construction works including site investigation works, temporary berthing and mooring facilities, installation of piles, and modification of the existing pier and construction of new pier structures (**Appendix A**);
- b) a successive construction sequence for construction of pier structures and demolition of temporary pier structures to avoid cumulative environmental impact (**Section 3**);
- c) a works programme of the works vessels to avoid the reduction of sunlight on corals caused by barges (**Section 4**); and
- d) location plan of all construction works in an appropriate scale (**Appendix B**).

1.5 Structure of this Report

1.5.1 This report is further divided into the following sections to cover the contents mentioned in Paragraph 1.4 above:

- a) Section 2 – Site Condition;

- b) Section 3 – Proposed Works and Construction Sequence; and
- c) Section 4 – Works Programme
- d) Section 5 – Conclusion

1.6 Abbreviations

1.6.1 The following abbreviations are used in this Report:

AFCD	Agriculture, Fisheries and Conservation Department
AMO	Antiquities and Monuments Office
ArchSD	Architectural Services Department
CEDD	Civil Engineering and Development Department
DEVB	Development Bureau
CMPB	Country and Marine Parks Board
CPC	Country Parks Committee
DO	District Office
DR	Director's Representative
EMSD	Electrical and Mechanical Services Department
EPD	Environmental Protection Department
FSD	Fire Services Department
GEO	Geotechnical Engineering Office under CEDD
GLTMS	Greening, Landscape and Tree Management Section
HAD	Home Affairs Department
HKPF	Hong Kong Police Force
HyD	Highways Department
IUCN	International Union for Conservation of Nature
LandsD	Lands Department
LegCO	The Legislative Council
LCSD	Leisure and Cultural Services Department
MD	Marine Department
MPC	Marine Parks Committee
OGCIO	Office of the Government Chief Information Officer
PIU	Pier Improvement Unit under CEDD
PlanD	Planning Department
PWD	Port Works Division
SI	Site Investigation
TC	Tourism Commission

TD	Transport Department
THB	Transport and Housing Bureau
UNESCO	United Nations Educational, Scientific and Cultural Organization
WSD	Water Supplies Department

2. Site Condition

2.1 Site Description

2.1.1 Tung Ping Chau (TPC) Public Pier is located in Tai Po District. The location plan of Tung Ping Chau Public Pier is shown in **Appendix B**.

2.1.2 The easternmost island of Hong Kong is formed entirely of sedimentary rocks with a variety of marine abrasion landforms along its coast. The shores of this level island are decorated with colourful laminations of the top rock shale and many other natural wonders. Included in the Hong Kong Geopark, Tung Ping Chau is an esteemed museum of geomorphology. However, the Tung Ping Chau Public Pier consists of narrow staircases and is inadequate to meet the current operational needs.

2.1.3 The pier is within the Tung Ping Chau Marine Park, adjacent to Plover Cove (Extension) Country Park and partly overlaps with the Ping Chau SSSI. High coverage of hard corals has been recorded on both sides of the existing Tung Ping Chau Public Pier. Water quality and other environmental concerns should be duly considered when the pier is to be reconstructed. For works within country parks or marine parks, prior consent shall be obtained from the Country and Marine Parks Authority before the commencement of works. If considered necessary, the CMPB or its CPC and/or MPC should be consulted. For any marine works in the waters of Hong Kong, and which interface or are likely to interfere with the operation of port facilities, or the navigation of vessels, or the safety of any person in the waters, permission shall be obtained from the Director of Marine prior to the commencement of marine works.

2.1.4 The pier was built in the 50s, and improvement works for the catwalk was carried out by CEDD in 2008. There have been repeated requests from the LegCo members and Village Representatives to widen the pier head and its boarding staircases.

2.2 Arrangement and Condition of Existing Pier

General

2.2.1 The existing Tung Ping Chau Public Pier is about 97m long, comprising a 14.5m long solid pier head, a 32m long catwalk and a 50.5m long causeway. The solid pier head is 5.54m wide, and consists of two flights of steps on either side of pier head. The pier head level is about +4.8 to +4.9mPD. The solid pier is founded on a dredged pocket backfilled with rubble. The dredged level is - 5.65mPD.

2.2.2 Upgrading works were carried out for the whole pier to widen both the causeway and catwalk in 2008. The causeway top was modified by constructing a wider longitudinal reinforced concrete slab dowelled to the rubble. No improvement works is required at the causeway of the existing pier.

2.2.3 The layout and condition of existing TPC Public Pier is shown in the **Figure 2.1** and **Figure 2.2**.

Figure 2.1: General Layout of Existing TPC Public Pier

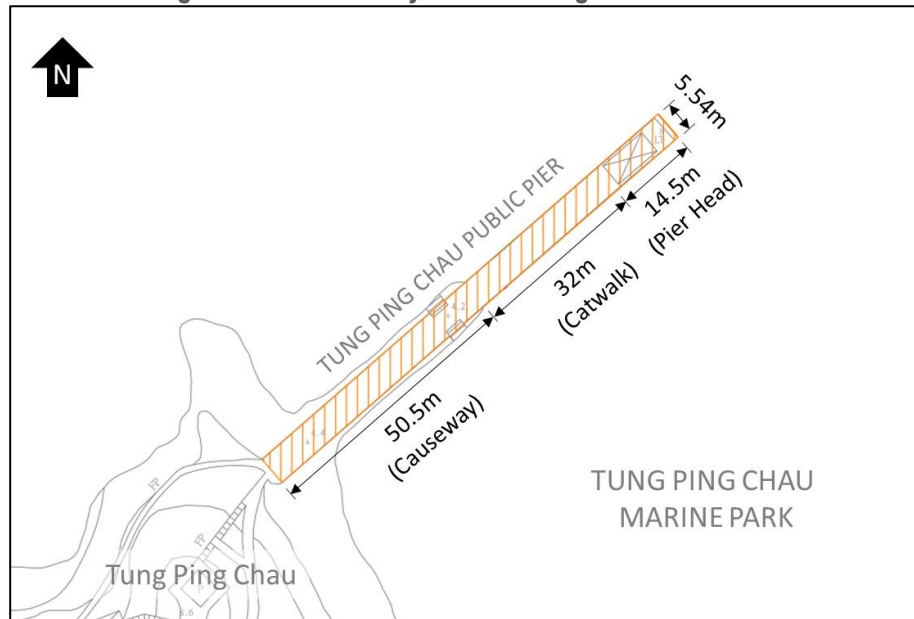


Figure 2.2: Condition of Existing TPC Public Pier



3. Proposed Works and Construction Sequence

3.1 General

3.1.1 The improved pier will integrate with and extend from the existing pier head and will align in the same direction as the existing pier. The extended area is about 450m² which will be supported by socketed steel H-piles. The highest design level of pier deck surface is to be +4.9mPD. About 150m² of the pier deck surface will be covered by a shelter/canopy structure at about 4m high above the deck level. The improved pier will provide two berths, one set of conventional landing step (with level of their lowest landing platforms at +2.35mPD and +0.85mPD) on the south-east side and one L-shaped floating platform (with freeboard of about 1.0m) on the other side. The general layout of the proposed works is shown in **Appendix C**.

3.1.2 The major works of the pier improvement at Tung Ping Chau is summaries as follows:

- Construction of a temporary berthing facility (i.e. temporary pier) for maintaining access to Tung Ping Chau during construction and removal of the facility after the new berth of the pier is available for use;
- Construction of pile foundation;
- Construction of pier deck structure including beams, deck slabs, ramps and landing step;
- Installation of new canopy and demolition of existing roof cover;
- Installation of floating pontoon, gangway and guide piles;
- Installation of associated facilities including fenders, bollards, corrosion monitoring system, handrails, paving, and E&M provisions etc.; and
- Demolition of temporary pier.

3.2 General Construction Sequence

3.2.1 The general construction sequence for the proposed works is as follows:

A. Construction of Temporary Pier

- 1) Install piles;
- 2) Install working barge and/or temporary steel structures; and
- 3) Connect the temporary pier to existing pier head.

B. Construction of Piled Foundation;

- 1) Install pile foundation/guide piles for the proposed TPC Public Pier;
- 2) Erect temporary bracing to stabilise piles; and
- 3) Install precast pile caps.

C. Construction of Deck Structure;

- 1) Install precast beams;
 - 2) Install prefabricated reinforcement cages;
 - 3) Install precast fender blocks;
 - 4) Install precast slab panels;
 - 5) Install precast staircase;
 - 6) Install prefabricated rebar for top slab and connect the top slab and the fender blocks; and
- D. Installation of canopy;
- 1) Install prefabricated frame;
 - 2) Install canopy panel;
- E. Installation of floating pontoon and gangway;
- 1) Transport the prefabricated floating platform
 - 2) Install the guide pile frame on the prefabricated floating platform to the guide pile for mooring;
 - 3) Transport the prefabricated gangway; and
 - 4) Fix the gangway on the landing and rest on the floating platform
- F. Installation of associated facilities; and
- 1) Install corrosion monitoring system;
 - 2) Install solar panels and E&M provisions;
 - 3) Install fenders and bollards; and
 - 4) Install paving, handrails on pier deck and floating pontoon.
- G. Demolition of temporary pier;
- 1) Demolish the steelworks of temporary pier superstructures in pieces;
 - 2) Transport the demolished steelworks off site;
 - 3) Cut and remove the piles as close as possible to the seabed; and
 - 4) Transport the removed piles off site..

3.3 Marine-based Foundation Works

Pre-drilling Works

- 3.3.1 Prior to the installation works of piles founded on rock, pre-drilling is carried out to identify the quality of the founding rock. Before pre-drilling, jack-up barge will be fixed in a position by extending its 4 legs into the seabed, the legs and borehole locations will be inspected by diver survey to ascertain no coral colonies will be affected as far as practicable. After positioning, the barge will be jacked up until the barge bottom is elevated above the high tide level. Minimal

disturbance of existing seabed level during positioning would be resulted but significant dispersion of suspended solids is not expected.

- 3.3.2 Before the commencement of rotary drilling works, all drill rig, circulation tank and equipment shall be thoroughly cleaned off-site. Double casing system shall be adopted. An outer casing shall be first placed on the seabed level to avoid the spillage of drilling fluid during drilling works. The inner casing shall be advanced to the rockhead by rotary core drilling and shall be cleaned by the recirculated flushing water before extraction. Thereafter, the inner and outer casings shall then be extracted slowly to the barge deck. No marine sediment is anticipated to be collected from the pre-drilling works and no substantial excavation is anticipated from the pre-drilling works. Impact of marine sediment on water quality is not anticipated.

Pile Installation Works

- 3.3.3 The foundations of the proposed TPC Public Pier will be socketed steel H-piles. A working platform in form of a working barge and/or temporary steel structure supported by mini-piles (~219 or 273mm dia.) will be adopted to facilitate the pier construction works. Working barges will be fixed in a position by anchoring concrete mooring sinkers onto the seabed while the mini-piles used to support the temporary steel structure would follow the confined pile casing method as described in Section 3.3.2 in order to control the water quality and ecological impacts. Maximum two piles will be constructed concurrently on site to minimize the cumulative environmental impact.
- 3.3.4 For each pile construction, confined pile casing method as described in Section 3.3.2 would also be followed. Inner casing of approximately 0.6m in diameter will be installed into the seabed by using rotary hydraulic boring rig from a working platform. Due to the limited diameter of steel casing, grab is not applicable for the construction of socketed steel H-piles. Air compressor instead of closed grab will be used to remove fine soil and rock fragments from the hole. Once the prebored hole is formed, a steel H section will be placed in the hole and subsequently fill with cement grout.

3.4 Construction of Deck Structure

- 3.4.1 Once the piles are installed, the precast elements of the pier structure including precast pile caps, beams, walls and slabs will be transported to the site by barges for subsequent erection, installation and in-situ stitching/casting. These precast elements could be shells of the elements to enable in-situ casting of the remaining concrete portions without the need of formwork and avoiding leakage of wet concrete out of conventional formwork.

3.5 Installation of Canopy, Floating Pontoon and Gangway

- 3.5.1 Following the completion of the deck structure, prefabricated elements including canopy, floating pontoon and gangway will be transported to the site for installation.

Canopy

- 3.5.2 The canopy structure will be partly prefabricated off site. The prefabricated elements including steel column and beam will be transported to the site by barges and installed by lifting machine.

Floating Pontoon and Gangway

- 3.5.3 The floating pontoon and gangway will be fully prefabricated off site and then be delivered to Tung Ping Chau via marine access. The pontoon will be moved into position allowing use the pile guides attached to the pontoon frames as locating guides for the pile locations.
- 3.5.4 Once the pontoons are securely moored, the access gangway will be lifted from the worksite and positioned between the intermediate landing and pontoon. With this in position, it will be secured at the landing while ensuring it is tracking correctly on the pontoon.

3.6 Installation of Associated Facilities

- 3.6.1 After the completion of canopy and floating pontoon, the associated facilities including E&M provisions and, fenders, bollards and handrails will be installed.

3.7 Demolition of Temporary Pier

- 3.7.1 Temporary pier deck structure and/or working platform will be removed piece by piece, and will be transported off site by marine transportation. Piled foundations for temporary use will be cut by wire saw, blade saw and similar method as close as possible to the seabed, and the demolished portions of the piled foundations will be removed off site. Compared with the use of pneumatic breaker, the use of wire saw or blade saw incur much lower level of vibration. The wire saw will not disturb the seabed. The portions of the piles embedded in the ground will be left untouched below the seabed.

4. Works Programme

4.1 General

4.1.1 The construction works will be commenced in August 2023 with a tentative construction period up to 41 months.

4.2 Programme

4.2.1 The programme for the construction works at TPC Public Pier is summarised in Table 4.1. Detailed programme is shown in **Appendix A**.

Table 2.1: Summary for Works Programme

Construction Activities	Period
Commencement of Works	August 2023
Construction of Temporary Pier	January 2024 – June 2024
Construction of Piled Foundation	July 2024 – July 2025
Construction of Deck Structure*	August 2025 – February 2026
Installation of Canopy, Floating Pontoon and Gangway*	March 2026 – May 2026
Installation of Associated Facilities*	June 2026 – September 2026
Demolition of Temporary Pier	October 2026 – December 2026
Completion of Works	December 2026

Remark:

* Precast, prefabrication and procurement process are not included.

Commencement of Works

4.2.2 The commencement date for the construction works is August 2023.

Construction of Temporary Pier

4.2.3 After the site preparation works including site office set-up, plant mobilization and document submissions, piling works for temporary pier will be commenced in January 2024.

4.2.4 The temporary pier will be completed in June 2024. Ferry to/from Tung Ping Chua will then use the temporary facility for embarkation and disembarkation before the completion of new pier.

Construction of Piled Foundation

4.2.5 Piling works for the new pier will be commenced in July 2024. Pre-drilling will be carried out before the construction of socketed steel H-piles. The Pre-drilling will be completed within 3 months.

4.2.6 Construction of socketed steel H-piles will then be started in October 2024 and completed in July 2025.

Construction of Deck Structure

- 4.2.7 The precast elements for pier deck structure, e.g. beam and slab, will be formed by the pre-cast concrete offsite in January 2024 after the approval on the shop drawings.
- 4.2.8 The precast elements will be delivered to site for installation. The construction period of deck structure and its staircase/landing step will be from August 2025 to February 2026.

Installation of Canopy, Floating Pontoon and Gangway

- 4.2.9 The prefabricated canopy and floating pontoon and gangway will be transported to site for installation in March 2026. The installation will be completed within 3 months, i.e. May 2026.

Installation of Associated Facilities

- 4.2.10 According to the proposed programme for TPC Public Pier, the E&M provisions, fenders, bollards, handrails and etc. will be installed in June 2026.

Demolition of Temporary Pier

- 4.2.11 Once the new pier is completed, it will be used as for the embarkation and disembarkation of ferry service to/from Tung Ping Chau. Temporary pier will then be demolished in September 2026. The demolition of the temporary facility will be completed in December 2026.

Completion of Works

- 4.2.12 All construction works will be completed in December 2026.

5. Conclusion

5.1 General

- 5.1.1 The pier improvement works for Tung Ping Chau Public Pier is within Tung Ping Chau Marine Park as show in the location plan in **Appendix B**.
- 5.1.2 The improved pier will integrate with and extend from the existing pier head and will align in the same direction as the existing pier as shown in the general arrangement in **Appendix C**.
- 5.1.3 The proposed work will be commenced in August 2023 and completed in December 2026 with a total 41-month construction period. Works programme is shown in the **Appendix A**.
- 5.1.4 Subject to contractor's proposal and site planning, the construction works schedule shall be further updated by contractor after the commencement of contract.

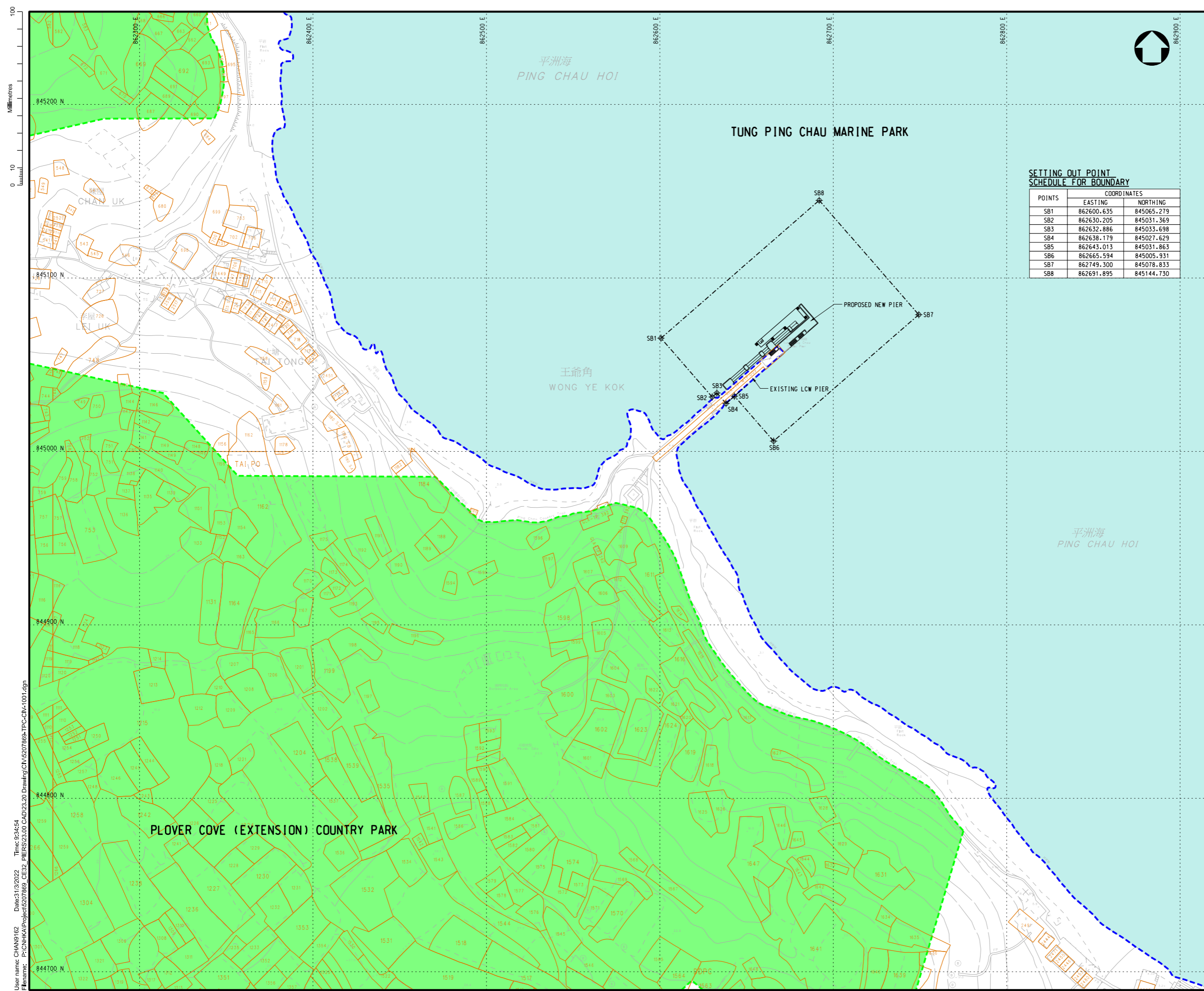
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Appendix A

Construction Programme for Tung Ping Chau Public Pier

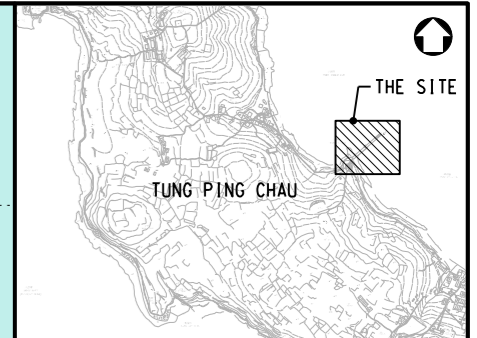
Appendix B

Location Plan for Tung Ping Chau Public Pier



SETTING OUT POINT SCHEDULE FOR BOUNDARY

POINTS	COORDINATES	
	EASTING	NORTHING
SB1	862600.635	845065.279
SB2	862630.205	845031.369
SB3	862632.886	845033.698
SB4	862638.179	845027.629
SB5	862643.013	845031.863
SB6	862665.594	845005.931
SB7	862749.300	845078.833
SB8	862691.895	845144.730



KEY PLAN
SCALE 1:10000

NOTES:
1. THE ENTIRE SITE IS SITUATED INSIDE THE AREA OF HONG KONG UNESCO GLOBAL GEOPARK.

- LEGEND:**
- MARINE PARK
 - COUNTRY PARK
 - LAND LOT W/LAND LOT NO.
 - SB1 SETTING OUT POINT OF AFFECTED AREA OF FORESHORE AND SEABED

Rev.	Date	Description	By	Chkd	App'd	Suitability
B	JAN 2022	SECOND ISSUE		KLC	JC	SW
A	DEC 2021	FIRST ISSUE		KLC	JC	SW

Drawing Status: **DESIGN**



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

土木工程處
CIVIL ENGINEERING OFFICE

Project Title:
AGREEMENT NO. CE 32/2021 (CE) IMPROVEMENT WORKS AT LAI CHI WO PIER AND TUNG PING CHAU PUBLIC PIER - DESIGN AND CONSTRUCTION

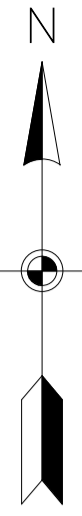
Drawing Title:
TUNG PING CHAU PUBLIC PIER - LAND REQUIREMENT PLAN

Scale	Designed	Drawn	Checked	Authorised
1:1000	SC	KLC	JC	SW
Original Size	Date	Date	Date	Date
A1	DEC 2021	DEC 2021	DEC 2021	DEC 2021
Drawing Number				Revision
5207869-TPC-CIV-1001				B

User name: CHANG162 Date: 31/12/2022 Time: 9:34:54
Filename: P:\CNHKA\Project\5207869_CE32_PIER\5207869_CAD\2022\30 Drawing\CM\5207869-TPC-CIV-1001.dgn

Appendix C

General Arrangement for Tung Ping Chau Public Pier



862700 E

862700 E

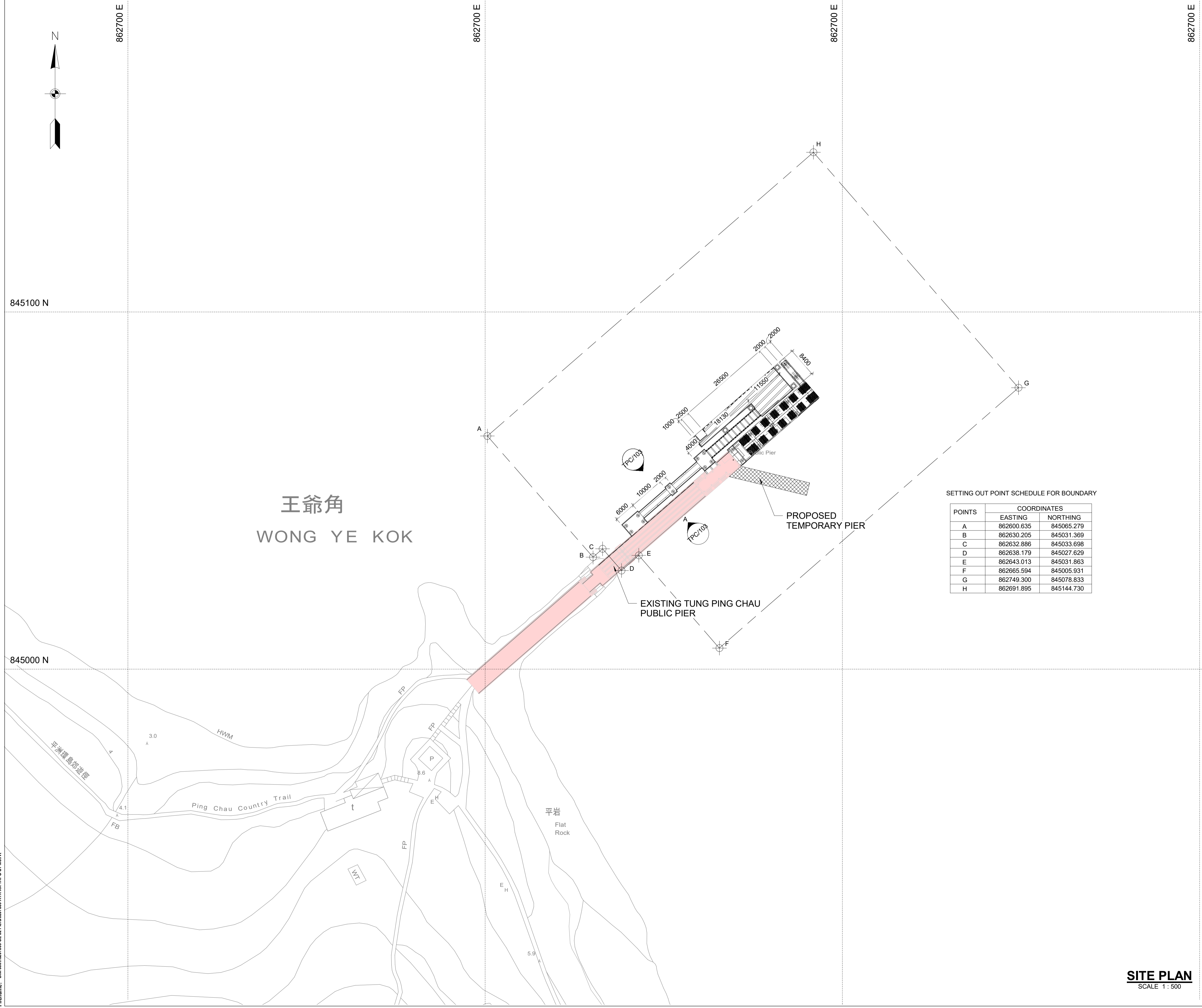
862700 E

862700 E

845100 N

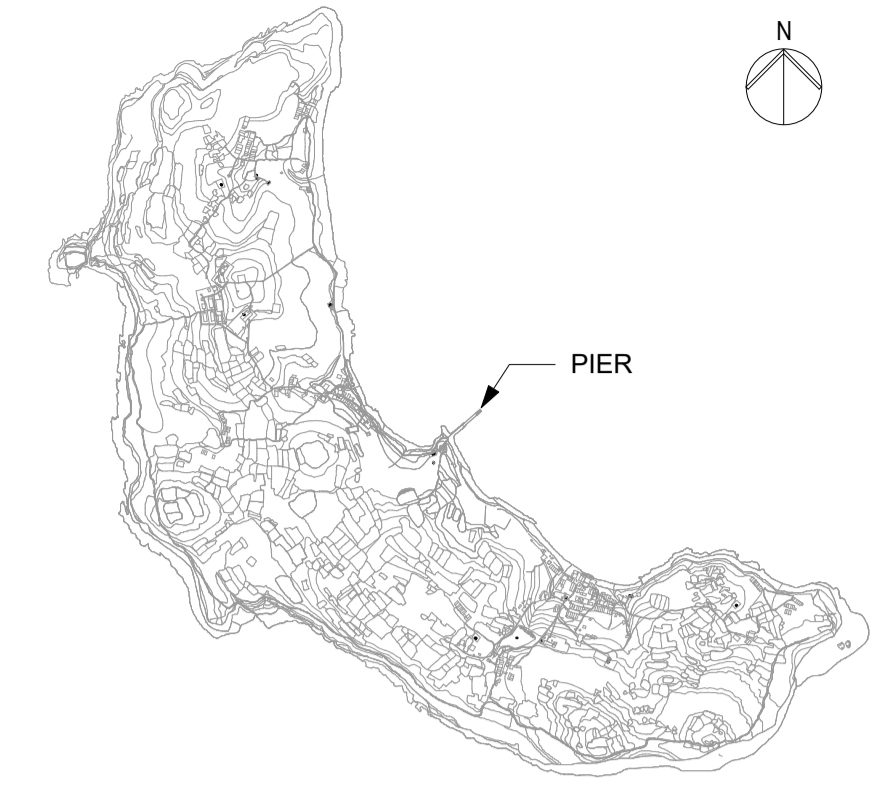
845000 N

王爺角
WONG YE KOK



SETTING OUT POINT SCHEDULE FOR BOUNDARY

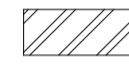


POINTS	COORDINATES	
	EASTING	NORTHING
A	862600.635	845065.279
B	862630.205	845031.369
C	862632.886	845033.698
D	862638.179	845027.629
E	862643.013	845031.863
F	862665.594	845005.931
G	862749.300	845078.833
H	862691.895	845144.730



NOTES:

- ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND

-  FLOATING PONTOON
-  EXISTING PIER
-  SITE BOUNDARY

Rev.	Date	Description	By	Chk'd	App'd
A	21.12.17	FIRST ISSUE	HC	JC	SW



土木工程處
CIVIL ENGINEERING OFFICE

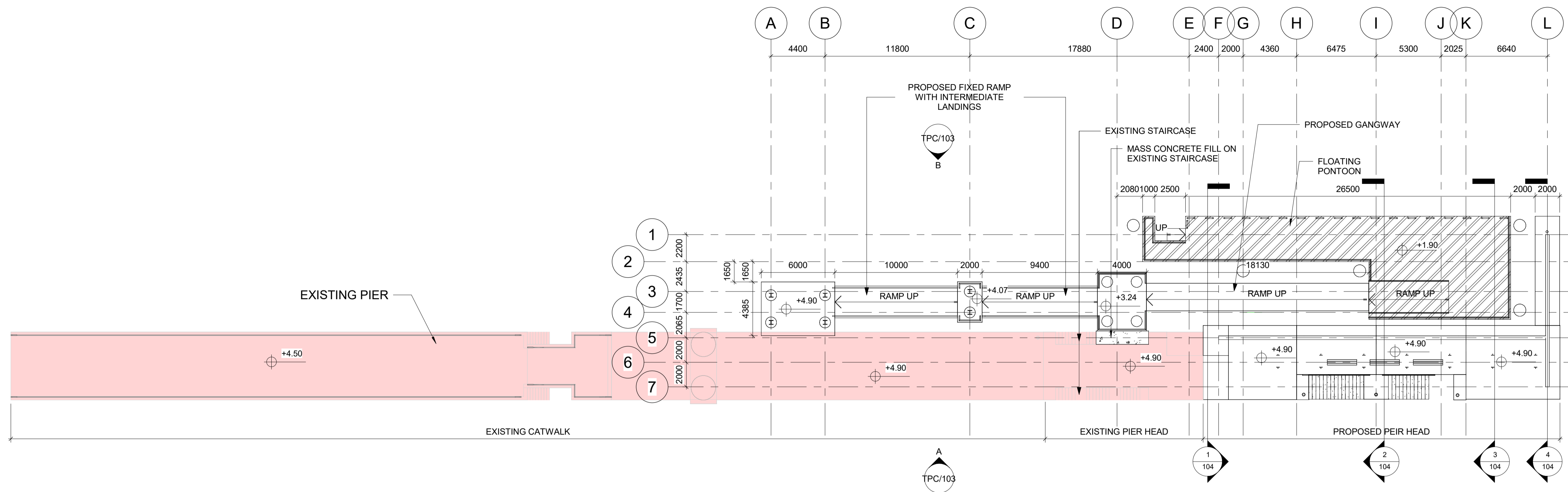
Project Title
Agreement No. CE 32/2021 (CE)
IMPROVEMENT WORKS AT LAI CHI WO PIER
AND TUNG PING CHAU PUBLIC PIER
- DESIGN AND CONSTRUCTION

Drawing Title
PIER IMPROVEMENT AT
TUNG PING CHAU PUBLIC PIER
GENERAL ARRANGEMENT

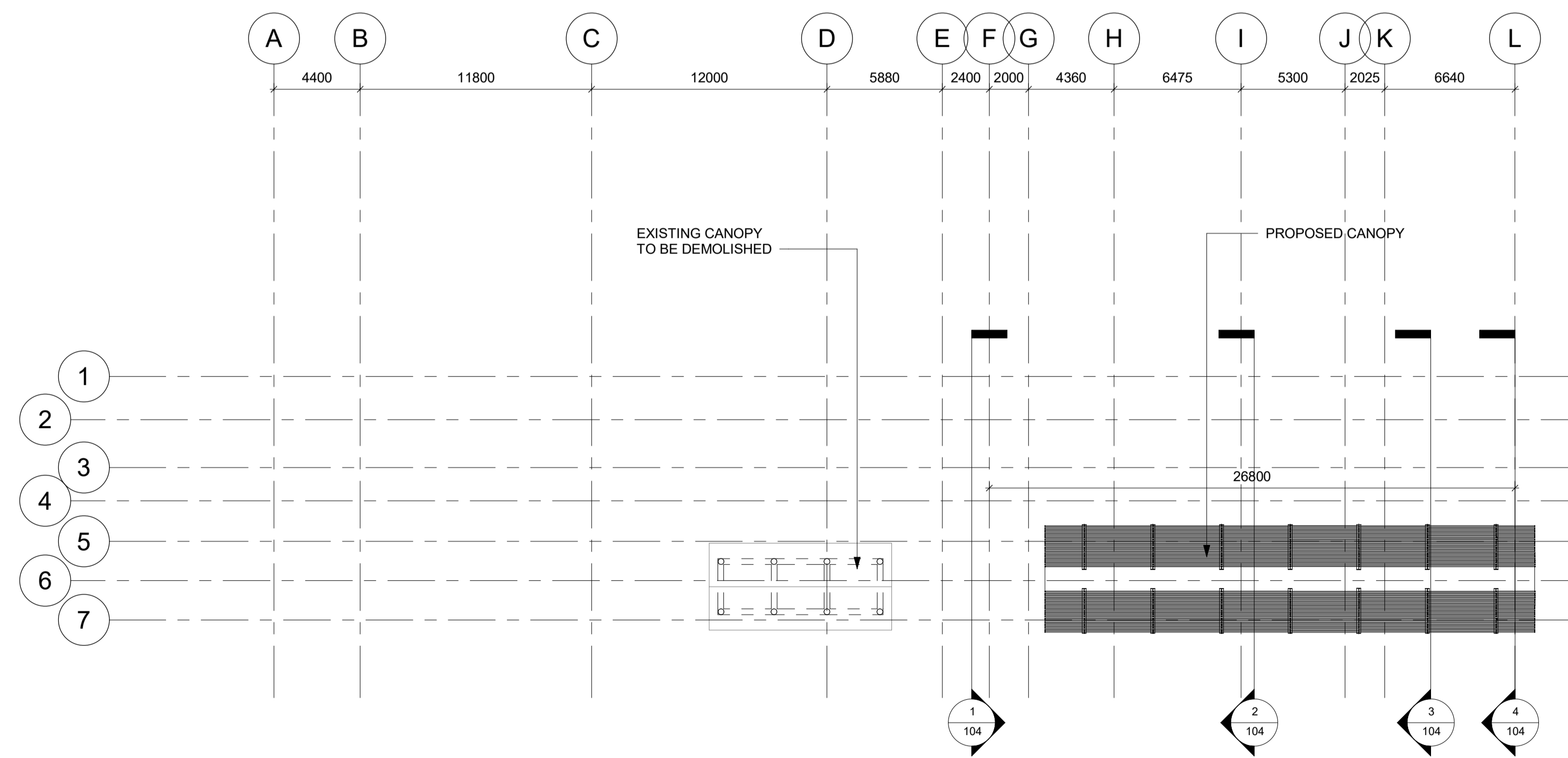
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A1	01/23/07	01/23/07	01/23/07	01/23/07

Drawing Number	Revision
TPC/101	A

SITE PLAN
SCALE 1 : 500





1 PLAN AT PIER DECK LEVEL +4.900
SCALE 1:200





PLAN AT ROOF LEVEL +9.000
SCALE 1:200

NOTES:
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
 FLOATING PONTOON
 EXISTING PIER

Rev.	Date	Description	By	Chk'd	App'd
A	21.12.17	FIRST ISSUE		HC	JC SW



 Member of the SNC-Lavalin Group

Client

 土木工程拓展署
 Civil Engineering and
 Development Department

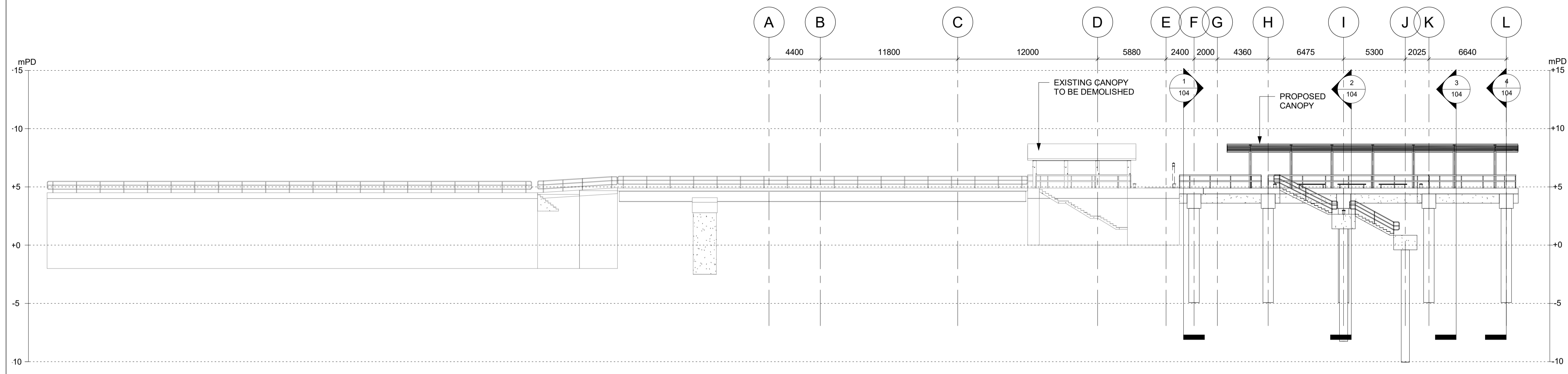
土木工程處
 CIVIL ENGINEERING OFFICE

Project Title
 Agreement No. CE 32/2021 (CE)
 IMPROVEMENT WORKS AT LAI CHI WO PIER
 AND TUNG PING CHAU PUBLIC PIER
 - DESIGN AND CONSTRUCTION

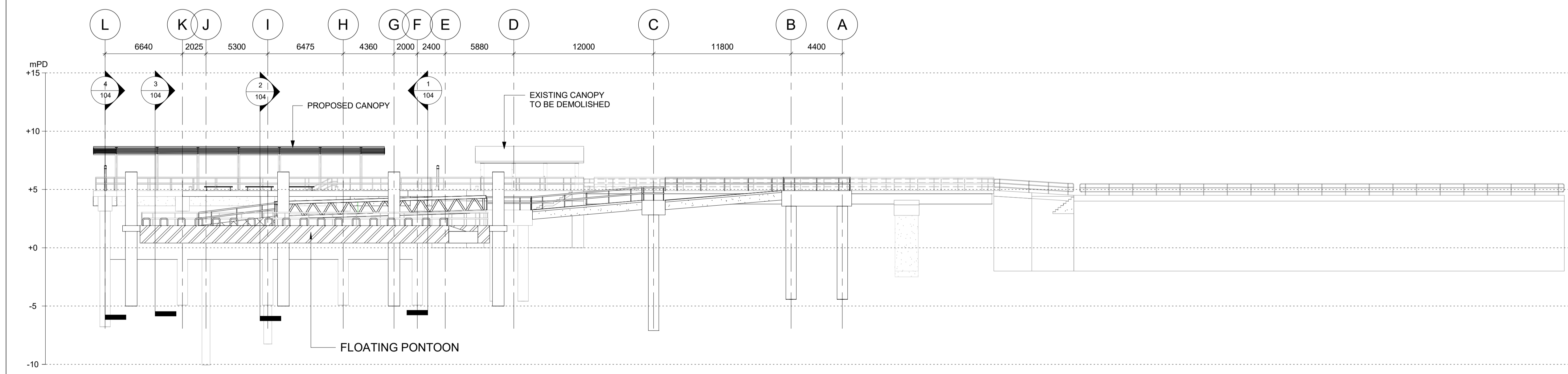
Drawing Title
 PIER IMPROVEMENT AT
 TUNG PING CHAU PUBLIC PIER
 PIER DECK PLAN

Scale	Designed	Drawn	Checked	Authorised
As indicated	HC	CS	JC	SW
Original Size	Date	Date	Date	Date
A1	10/29/21	10/29/21	10/29/21	10/29/21
Drawing Number	Revision			
TPC/102	A			

NOTES:
 1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.



A SOUTH ELEVATION
 SCALE 1 : 200



B NORTH ELEVATION
 SCALE 1 : 200

Rev.	Date	Description	By	Chk'd	App'd	Substability
A	21.12.17	FIRST ISSUE	HC	JC	SW	



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 Civil Engineering and Development Department

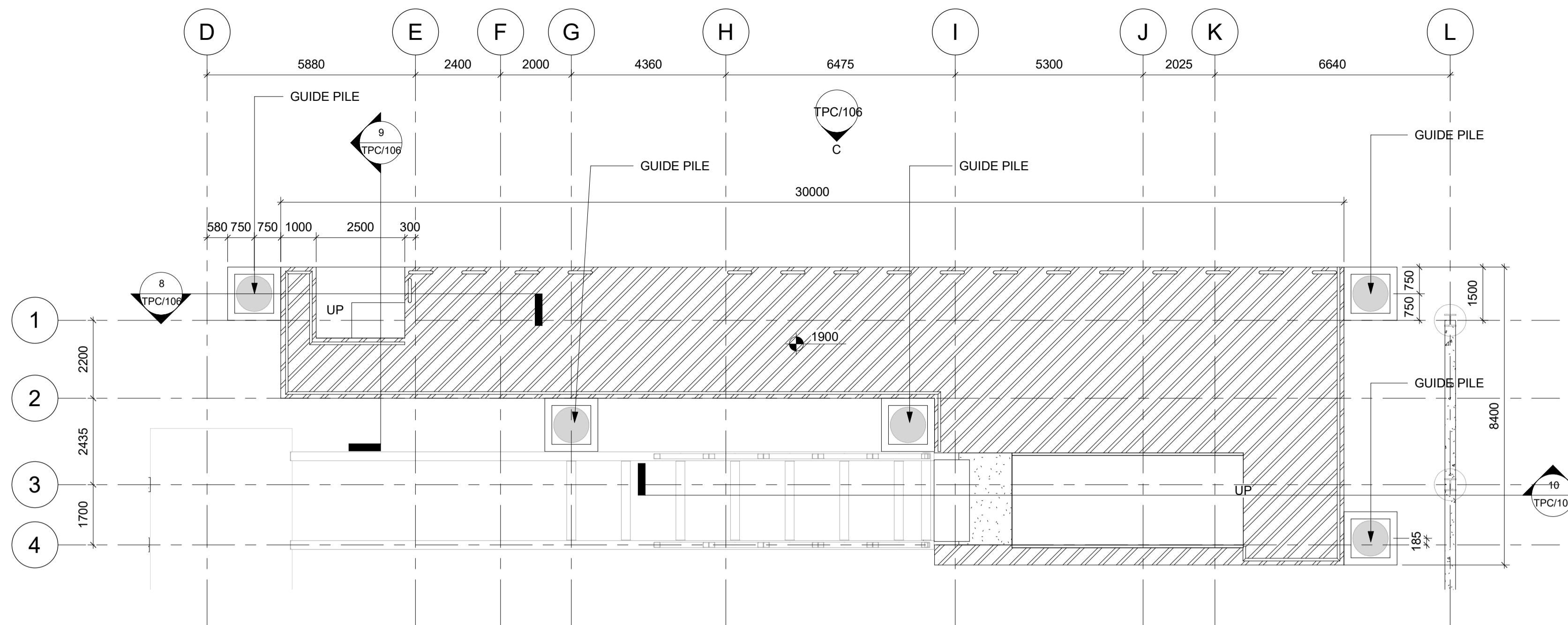
土木工程處
 CIVIL ENGINEERING OFFICE

Project Title
Agreement No. CE 32/2021 (CE)
IMPROVEMENT WORKS AT LAI CHI WO PIER AND TUNG PING CHAU PUBLIC PIER - DESIGN AND CONSTRUCTION

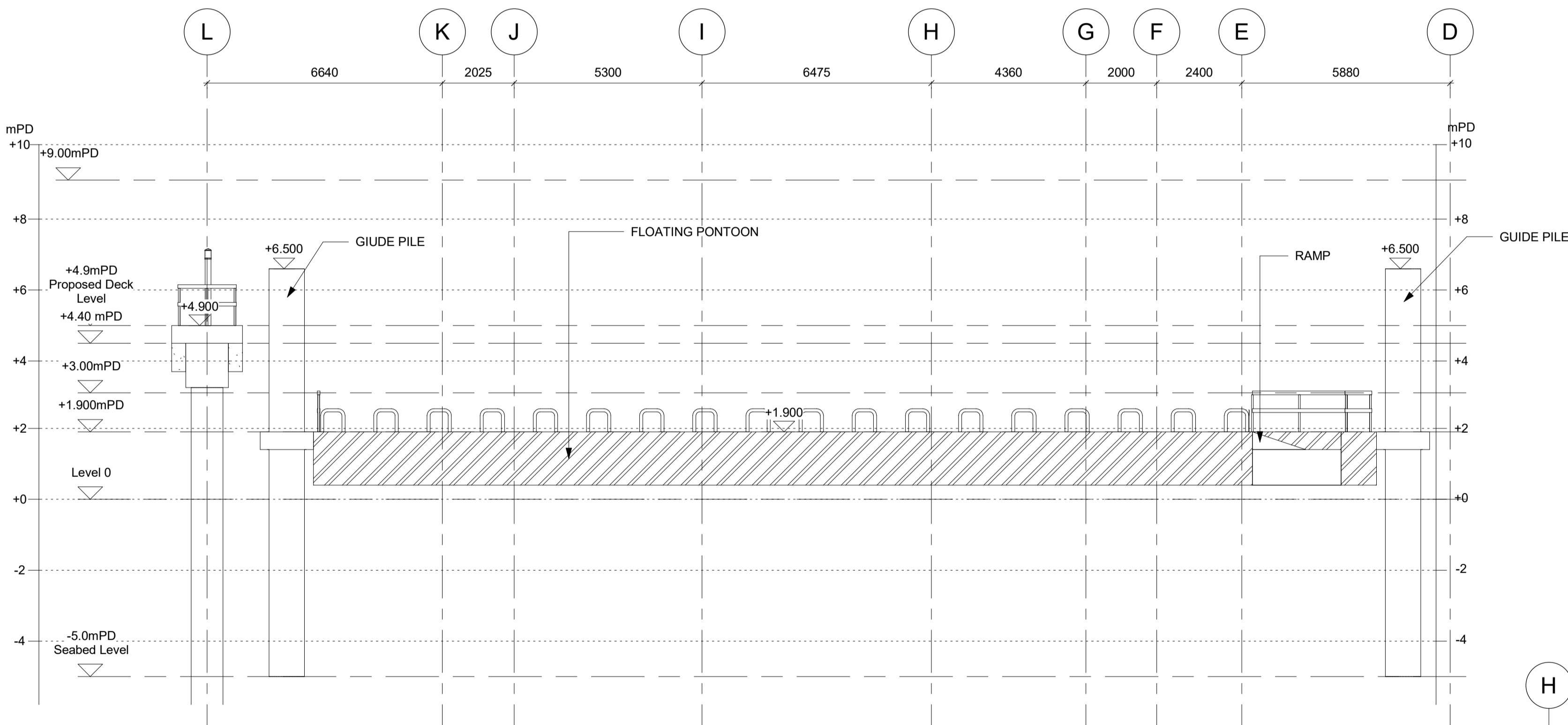
Drawing Title
PIER IMPROVEMENT AT TUNG PING CHAU PUBLIC PIER PIER DECK ELEVATIONS

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A1	11/25/21	11/25/21	11/25/21	11/25/21
Drawing Number	Revision			Revision
TPC/103				A

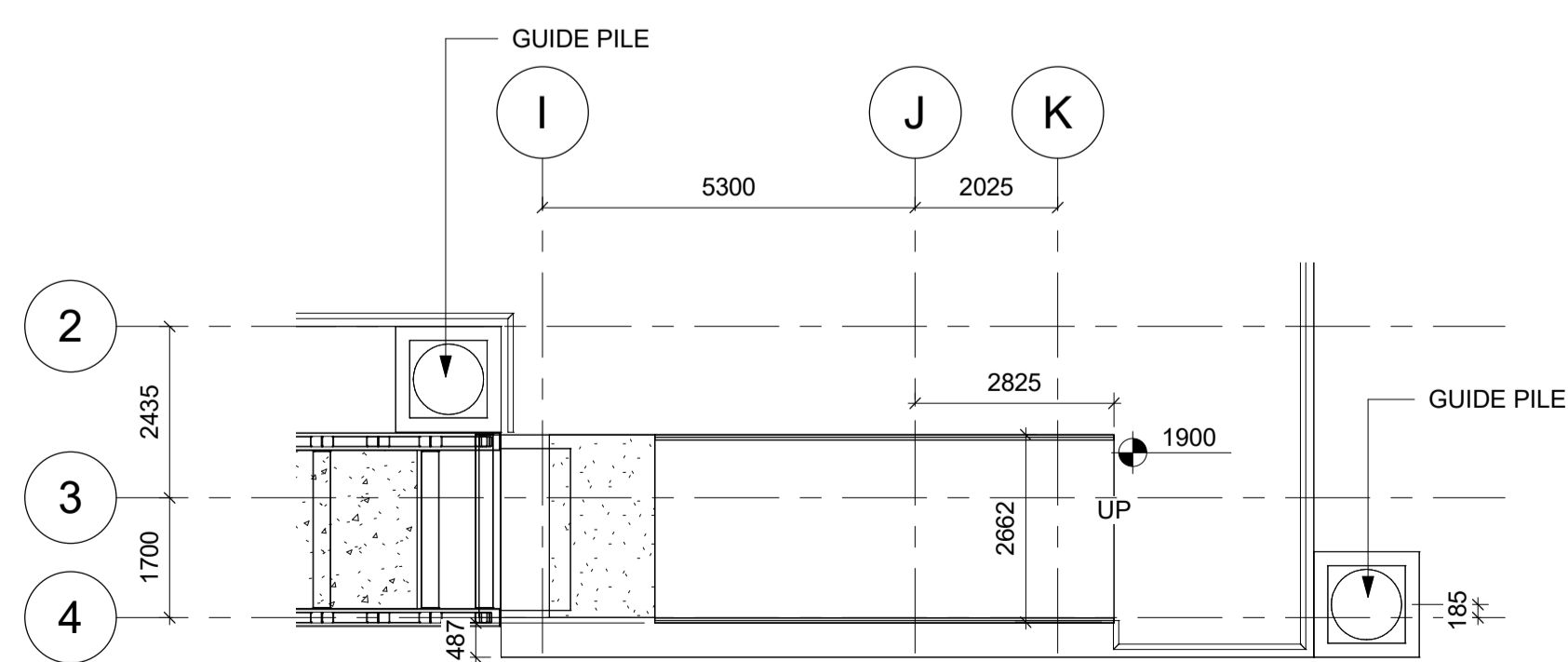
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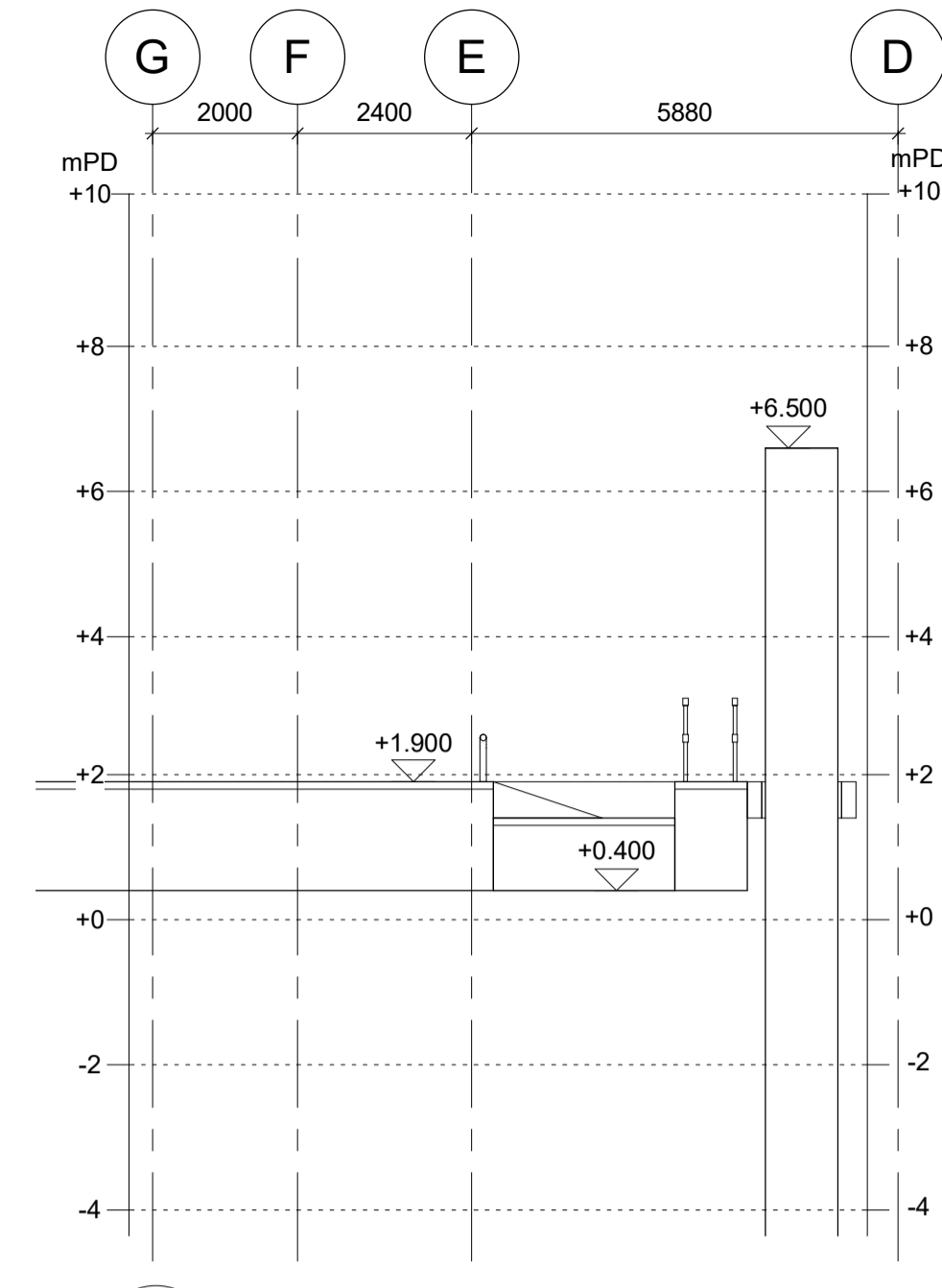
FLOATING PLATFORM LAYOUT PLAN
SCALE 1 : 100



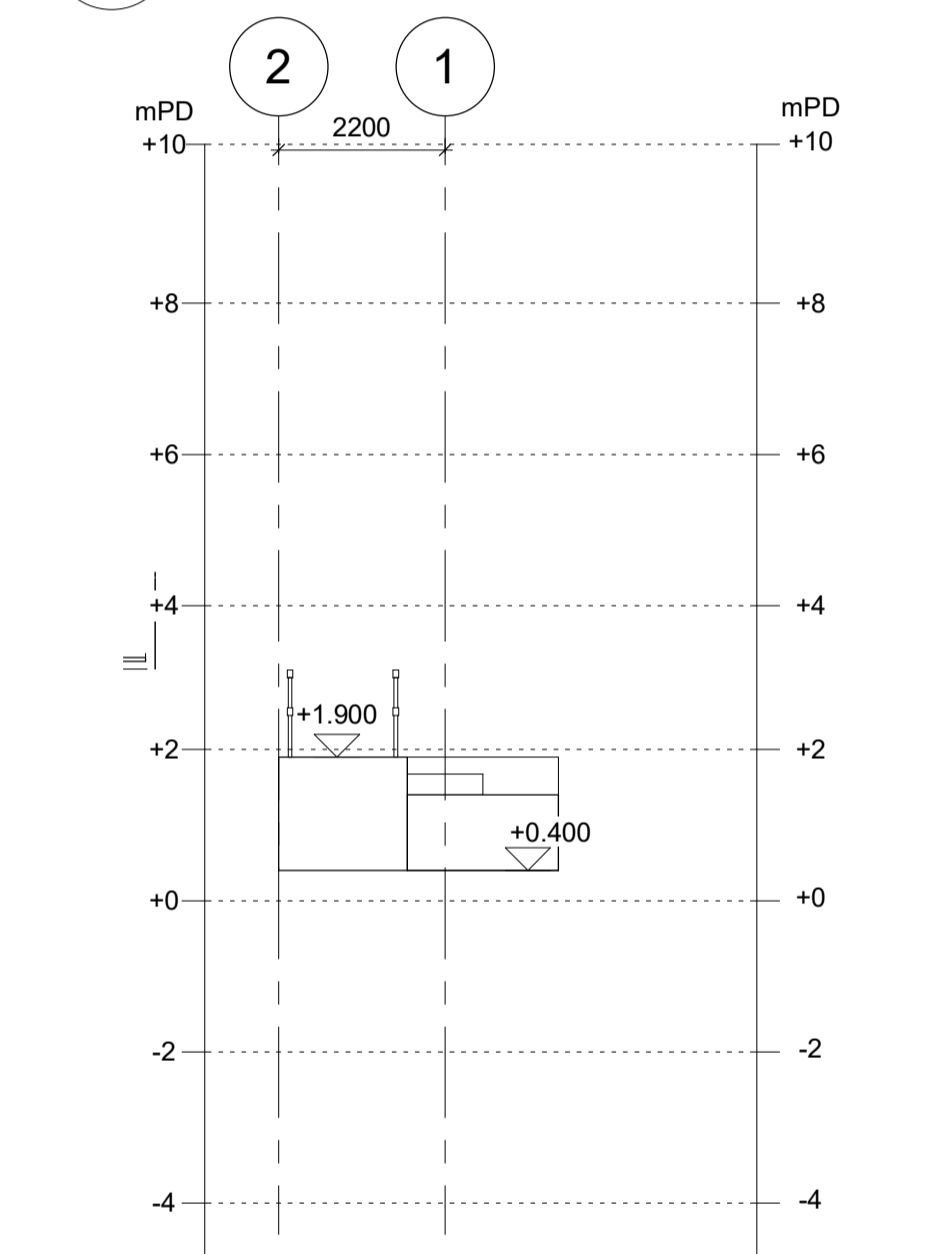
FLOATING PLATFORM ELEVATION
SCALE 1 : 100



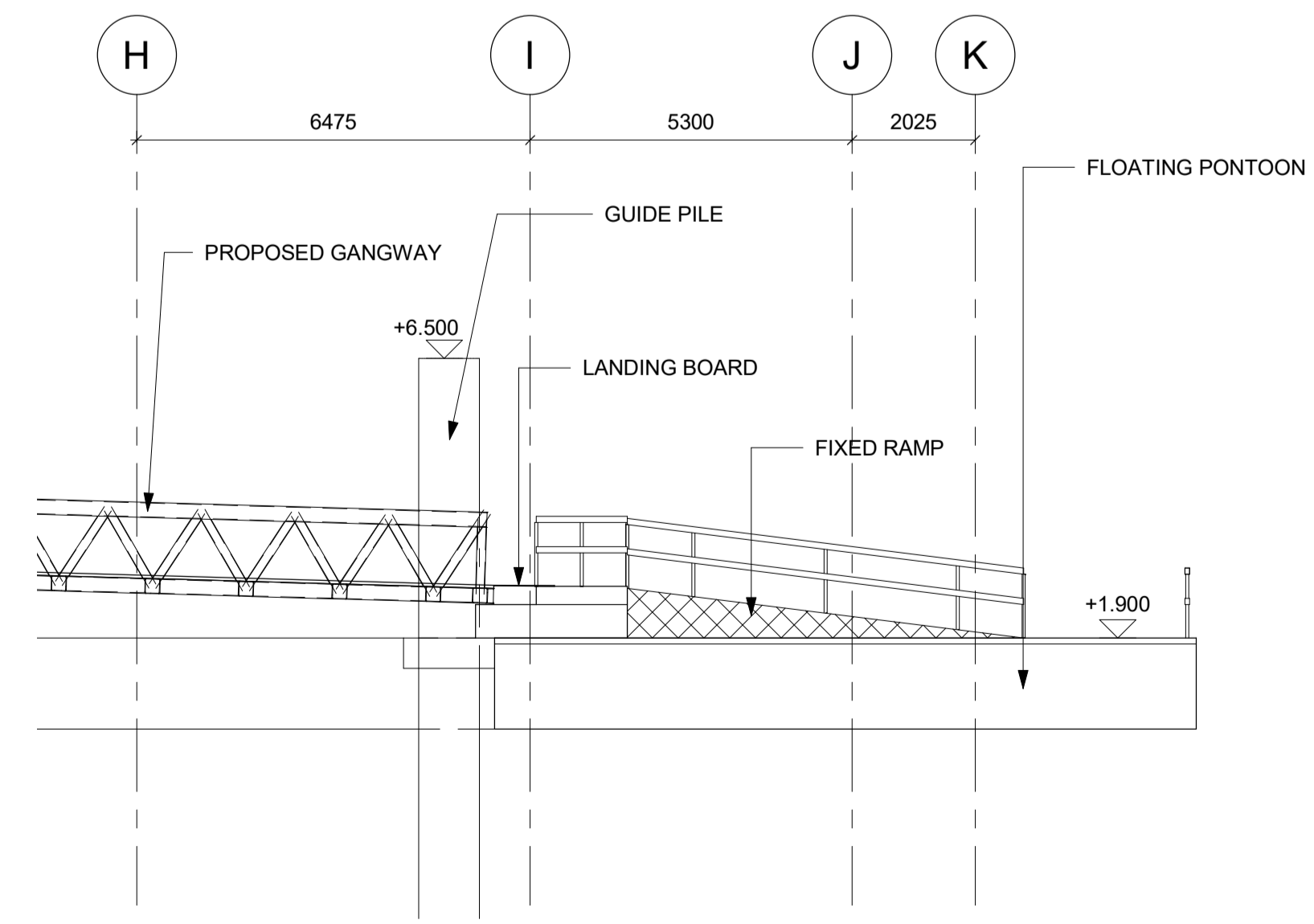
GANGWAY PLATFORM PLAN
SCALE 1 : 100



8 SECTION
SCALE 1 : 100



9 SECTION
SCALE 1 : 100



10 SECTION
SCALE 1 : 100

NOTES:

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND

- FLOATING PONTOON
- GUIDE PILE
- PRE-BORED SOCKETED H PILE

Rev.	Date	Description	By	Chk'd	App'd	Submittal
A	21.12.17	FIRST ISSUE		HC	JC	SW



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

土木工程處
CIVIL ENGINEERING OFFICE

Project Title
Agreement No. CE 32/2021 (CE)
IMPROVEMENT WORKS AT LAI CHI WO PIER
AND TUNG PING CHAU PUBLIC PIER
- DESIGN AND CONSTRUCTION

Drawing Title
**PIER IMPROVEMENT AT
TUNG PING CHAU PUBLIC PIER
FLOATING PLATFORM PLAN SECTIONS AND
ELEVATIONS**

Scale	Designed	Drawn	Checked	Authorised
1 : 100	HC	CS	JC	SW
Original Size	Date	Date	Date	Date
A1	11/25/21	11/25/21	11/25/21	11/25/21

Drawing Number	Revision
TPC/106	A

Sean WONG
阿特金斯顧問有限公司 **Atkins China Limited**
13/F Wharf T&T Centre
Harbour City
Tsim Sha Tsui
Kowloon
Hong Kong

Tel: +852 2972 1000
Fax: +852 2890 6343
Sean.Wong@atkinsglobal.com

Our ref	5207869/18.30/OC174/AL/DL/SW/IW/JC/fl
Title	Submission of Construction Works Schedule and Location Plans
Date	17 June 2022

Attachment 2

—

ET Certification and IEC Verification Letters

Your ref. -
Our ref 5207869/18.30/OC160/AL/DL/SW/IW/AL/fl
Date 16 June 2022

By Post and By Email

Civil Engineering and Development Department
Civil Engineering Office
Pier Improvement Unit
Projects Section 3
4/F, Civil Engineering and Development Building
101 Princess Margaret Road
Homantin, Kowloon

**Attn: Mr. LEE Man Chow, Francis
Project Team Leader**

Dear Sirs,

**Agreement No. CE 32/2021 (CE)
Improvement Works at Lai Chi Wo Pier and Tung Ping Chau Public Pier
– Design and Construction
Environmental Permit No. EP-587/2021
Certification of Construction Works Schedule and Location Plans**

Pursuant to Condition 2.10 of the Environmental Permit No. EP-587/2021, I hereby certify the Construction Works Schedule and Location Plans for the pier improvement works at Tung Ping Chau Public Pier.

Should you have any queries regarding the above, please feel free to contact us by telephone number 2972 1173.

**Yours faithfully,
For and on behalf of
Atkins China Ltd**



**Grace YANG
Environmental Team Leader**

cc EPD - Ms. FUNG Hoi Ying, Ada (Env Protection Offr (Strategic Assessment) 62)
Wilson Acoustic limited - Mr. Morgan Cheng (IEC)



Unit 601, Block A, Shatin Industrial Centre,
5 - 7 Yuen Shun Circuit, Shatin, NT
Tel: (852) 3188-1170, Fax: (852) 3422-8117
E-mail: who@wal.hk
Web: www.wal.hk

Our Ref: 21411-36

By Email

17 June 2022

Civil Engineering and Development Department
Civil Engineering and Development Building,
101 Princess Margaret Road,
Kowloon, Hong Kong

Attention: Mr. LEE Man-chow

Subject: Agreement No. PI 2/2021 Independent Environmental Checker Services for Improvement Works at Lai Chi Wo Pier and Improvement Works at Tung Ping Chau Public Pier
Verification of Tung Ping Chau Construction Works Schedule and Location Plans

Dear Mr Lee,

We refer to the email on 15 June 2022 from Atkins China Limited about Construction Works Schedule and Location Plans for site investigation works at Tung Ping Chau Public Pier.

We have no comment and hereby verify Environmental Permit (EP) Submission Schedule as required under Condition 2.10 of the Environmental Permit (EP-587/2021).

Should you have any queries, please feel free to contact us by telephone number 2637-0623 or fax 3422-8117.

Yours sincerely

A handwritten signature in black ink, appearing to read "Morgan Cheng", written over a faint, stylized signature line.

Morgan Cheng
Independent Environmental Checker, Wilson Acoustics Limited

MC

Encl.

c.c. Civil Engineering and Development Department (Attn.: Mr. YUNG Chung Bun, Thomas)
Environmental Protection Department (Attn.: Ms. FUNG Hoi Ying, Ada)
Atkins China Limited (Attn.: Mr. Sean Wong)