

MTR Corporation Limited

**Siu Ho Wan Station and
Siu Ho Wan Depot Replanning Works**

Construction Works Phasing Schedule

(December 2021)

Verified by: James Choi *James*

Position: Independent Environmental Checker

Date: 13 December 2021

MTR Corporation Limited

**Siu Ho Wan Station and
Siu Ho Wan Depot Replanning Works**

Construction Works Phasing Schedule

(December 2021)

Certified by: Lisa Poon 

Position: Environmental Team Leader

Date: 13 December 2021

MTR Corporation Limited

Consultancy Agreement No. NEX/1062

**Siu Ho Wan Station and Siu Ho Wan
Depot Replanning Works****Construction Works Phasing Schedule
Proposal**

December 2021

	Name	Signature
Prepared & Checked:	Isaac Chu	
Reviewed & Approved:	Y T Tang	

Version: A Date: 2 December 2021

This report is prepared for MTR Corporation Limited and is given for its sole benefit in relation to and pursuant to Consultancy Agreement No. NEX/1062 and may not be disclosed to, quoted to or relied upon by any person other than MTR Corporation Limited without our prior written consent. No person (other than MTR Corporation Limited) into whose possession a copy of this report comes may rely on this report without our express written consent and MTR Corporation Limited may not rely on it for any purpose other than as described above.

AECOM Asia Co. Ltd.
12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong
Tel: (852) 3922 9000 Fax: (852) 3922 9797 www.aecom.com

Table of Content

	Page
1. INTRODUCTION.....	1
1.1 Background	1
2. OVERALL PHASING PROGRAMME AND LOCATION PLANS OF CONSTRUCTION WORKS.....	2
2.1 Introduction	2
2.2 Tentative Works Programme and Location Plans of Advance Works	2
2.3 Tentative Works Programme and Location Plans of Phasing Works	3

List of Tables

Table 2.1	Tentative Works Programme of Advance Works
Table 2.2	Tentative Works Programme of Phasing Works

List of Figures

NEX1062/S/SHD/ACM/Z10/101	Scope of the Project
NEX1062/S/SHD/ACM/Z10/102	Tentative Layout of Reprovisioned Siu Ho Wan Depot
NEX1062/S/SHD/ACM/Z10/401	Location of Advance Construction Works

List of Appendices

Appendix 2.1	Tentative Works Programme of Advance Works
Appendix 2.2	Location Plans of Phasing Works and Corresponding Decking Arrangement

1. INTRODUCTION

1.1 Background

- 1.1.1 MTR Corporation Limited (MTRCL) had commenced a study to formulate a technically feasible development scheme for the Proposed Comprehensive Residential and Commercial Development atop Siu Ho Wan Depot (hereinafter referred to the “SHD Topside Development”) to optimize housing supply. To facilitate the construction of the SHD Topside Development, railway related works would be required. The existing Siu Ho Wan Depot (SHD) will undergo replanning works to make room for the phased construction of the SHD Topside Development, while maintenance and supporting services to the existing Tung Chung Line (TCL), Airport Express Line (AEL) and Disneyland Resort Line (DRL) should be maintained without causing disruption to the normal operation. A new Siu Ho Wan Station (SHO) has also been proposed along the TCL tracks to meet transport needs of the SHD Topside Development and enable building of a sustainable community. Scope of the Project is shown in **Figure No. NEX1062/S/SHD/ACM/Z10/101**.
- 1.1.2 The Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-214/2017) for the SHO and SHD Replanning Works (hereafter referred to as the “Project”) was approved on 29 November 2017 under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Report, an Environmental Permit (EP) was granted on 22 March 2021 (EP No: EP-588/2021) for the construction and operation of the Project.
- 1.1.3 Pursuant to EP Condition 2.7, the Permit Holder shall, no later than 1 month before the commencement of construction of the Project, deposit 3 hard copies and 1 electronic copy of a Construction Works Phasing Schedule (the Schedule) with the Director. The Schedule shall include at least the following information / specifications:
- (i) a detailed work programme showing the number of Work Phase(s) of the Project as well as the planned timing for the commencement and completion of the major construction works under each Work Phase; and
 - (ii) location plan(s) in appropriate scale delineating the boundary of each Work Phase of the Project and showing the extent of the concrete slab to be constructed over the depot under each Work Phase.

2. OVERALL PHASING PROGRAMME AND LOCATION PLANS OF CONSTRUCTION WORKS

2.1 Introduction

2.1.1 The key elements of the Project (**Figure No. NEX1062/S/SHD/ACM/Z10/102**, extracted from EIA Report, refers) are listed below:

- SHD Replanning Works within the existing site boundary;
- Construction of concrete slab, which would also support for construction of the podium decking, the residential towers and facilities above for SHD Topside Development, and property enabling works for the SHD Topside Development;
- A new SHO and the associated trackworks at existing AEL/TCL, as well as western access and local access; and
- Provision of the sewerage network outside existing SHD boundary to cater sewage generated by the proposed SHO and Re-provisioned SHD.

2.1.2 In order to maintain the existing depot’s daily operation and minimize disturbance to the existing depot, the SHD Replanning Works will be executed in four stages with limited construction access and works area. Each stage of replanning works includes depot structure and foundation construction, temporary / permanent relocation and re-provision of depot facilities and tracks that subsequently require considerable time for testing and commissioning (T&C), etc.

2.2 Tentative Works Programme and Location Plans of Advance Works

2.2.1 To facilitate first stage of replanning works, advance construction works would include (i) construction of cable bridges and associated civil works for cable diversion; (ii) construction of temporary vehicular access bridge; (iii) trial piling for SHD Phase 1; (iv) demolition of paint shop; and (v) construction of engineering vehicle (EV) tracks. Location of advance construction works boundary is shown in **Figure No. NEX1062/S/SHD/ACM/Z10/401** and advance construction works sites would be located within this works boundary.

2.2.2 The advance works will be conducted under three works contracts and the corresponding tentative construction programme is detailed in **Table 2.1**. Details of the tentative works programme of advance works are shown in **Appendix 2.1**.

Table 2.1 Tentative Works Programme of Advance Works

Contract No.	Description of Construction Works	Tentative Construction Programme	
		From	To
1731	<ul style="list-style-type: none"> • Trial Piling for SHD Phase 1 	Q2 2022	Q3 2022
1732	<ul style="list-style-type: none"> • Construction of cable bridges and associated civil works for cable diversion 	Q4 2021	Q4 2022
1733	<ul style="list-style-type: none"> • Construction of temporary vehicular access bridge • Demolition of paint shop • Construction of engineering vehicle (EV) tracks 	Q2 2022	Q2 2023

2.3 Tentative Works Programme and Location Plans of Phasing Works

- 2.3.1 The proposed depot replanning sequences will be carried out in stages to allow continuous and safe operation of existing TCL, AEL, DRL as well as the existing SHD. The major construction sequences are described below.
- 2.3.2 The decking area over the tracks in operation has been maximized to reduce the potential railway noise impacts to earlier phases of the SHD Topside Development. Reprovisioning of stabling tracks is therefore proposed to be conducted in the first stage of the Replanning Works. The existing spare space is relatively long and is enough to accommodate 3 berths of train in a linear track at this area, allowing increase of stabling tracks as well as catering for the fleet expansion to meet the increasing passenger upon completion of Stage 1 Replanning Works. However, the width of the existing spare space is not enough to accommodate the reprovisioned main depot building which is located at the centre of existing SHD site. Upon operation of Stage 1 Reprovisioned SHD, more trains movement could be contained under the concrete slab, and the potential railway and fixed plant noise impact to the topside development could be minimized.
- 2.3.3 Replanning works for Stage 2, 3 & 4 are subject to the detailed design development for each respective phase.
- 2.3.4 The proposed layout of the Reprovisioned SHD under concrete slab was extracted from the EIA Report and is presented in **Figure No. NEX1062/S/SHD/ACM/Z10/102**. The design and layout of Reprovisioned SHD is subject to detailed design development.
- 2.3.5 The tentative construction programme of the Project is summarised in **Table 2.2**, with the location of works front together with extent of concrete slab of the Project as extracted from the EIA Report is presented in **Appendix 2.2**. The location of works front and the extent of concrete slab is subject to detailed design development.

Table 2.2 Tentative Works Programme of Phasing Works

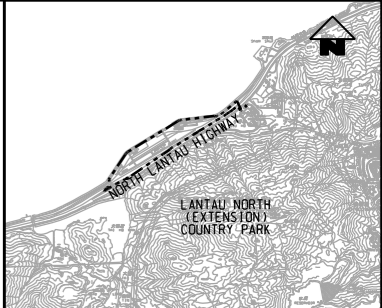
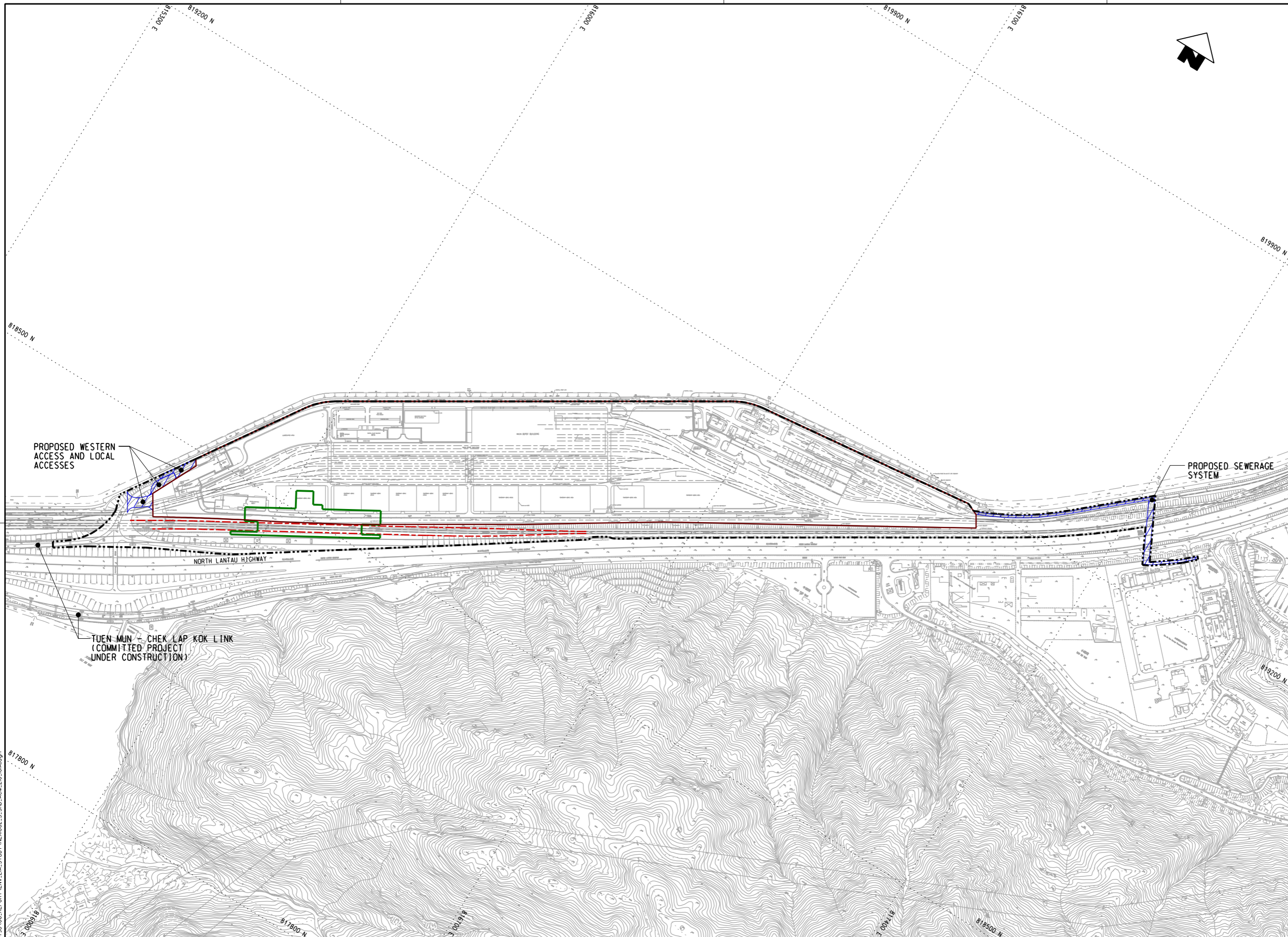
SHD Replanning Works				SHO and Associated Trackworks
Phasing	Works Programme ⁽¹⁾		Completion of Works & Operation	Works programme
	Start	Slab Completion		
1	2023/2024	2027/2028	2028	2023 – 2030
2	TBC ⁽²⁾	TBC ⁽²⁾	TBC ⁽²⁾	-
3	TBC ⁽²⁾	TBC ⁽²⁾	TBC ⁽²⁾	-
4	TBC ⁽²⁾	TBC ⁽²⁾	TBC ⁽²⁾	-

Notes:

- (1) The foundation of SHD Topside Development including piling and excavation works will be conducted in parallel with replanning works in respective phasing.
- (2) Works programme is subject to detailed design, project development and discussion with relevant Government Departments.

- 2.3.6 As shown in **Table 2.2**, the works programme for Phase 2 to 4 is subject to detailed design, project development and discussion with relevant Government Departments. In addition, the phasing works boundary and programme of each phasing are subject to change upon the detailed design information is developed during the detailed design stage. This Schedule would be updated as necessary to present the detailed works programme and the works boundary of each phase according to the requirements of EP Condition 2.7.

FIGURE



KEY PLAN
(SCALE 1 : 50000)

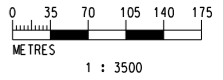
- LEGEND:**
- EXISTING/REPROVISIONED SHD BOUNDARY
 - SCHEME BOUNDARY
 - MODIFIED TCL/AEL ALIGNMENT
 - PROPOSED SHD (INDICATIVE)
 - SUPPORTING FACILITY

PROPOSED WESTERN ACCESS AND LOCAL ACCESSES

PROPOSED SEWERAGE SYSTEM

NORTH LANTAU HIGHWAY

TUEN MUN - CHEK LAP KOK LINK (COMMITTED PROJECT UNDER CONSTRUCTION)



P:\Projects\60493798\01_CAD_ADMIN\02_UTILITY\01_PLOT_DRIVER\13_BW_COL_SYSTEM.STD.PLT
 PLOTTED BY: ZENKFA 2017/2/16 11:59:22
 P:\Projects\60493798\06_REPORT\NEW\EN\STUDY\NEX1062_S_SHD_ACM_Z10_101A.dgn

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	PRELIMINARY DESIGN REPORT ISSUE	SN	18AUG16	HL					

DRAWN	ZENG FU XIU
DESIGNED	ANTHEA FUNG
CHECKED	SAM NG
APPROVED	HL
DATE	18/AUG/2016

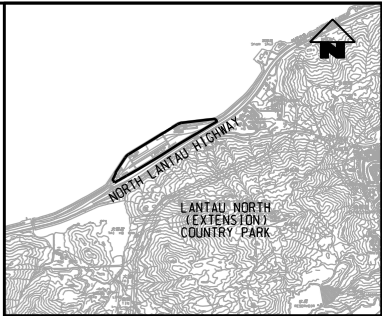
MTR

SIU HO WAN DEPOT

AECOM in association with **Aedas**

CADD REF. NEX1062_S_SHD_ACM_Z10_101A.dgn

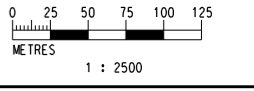
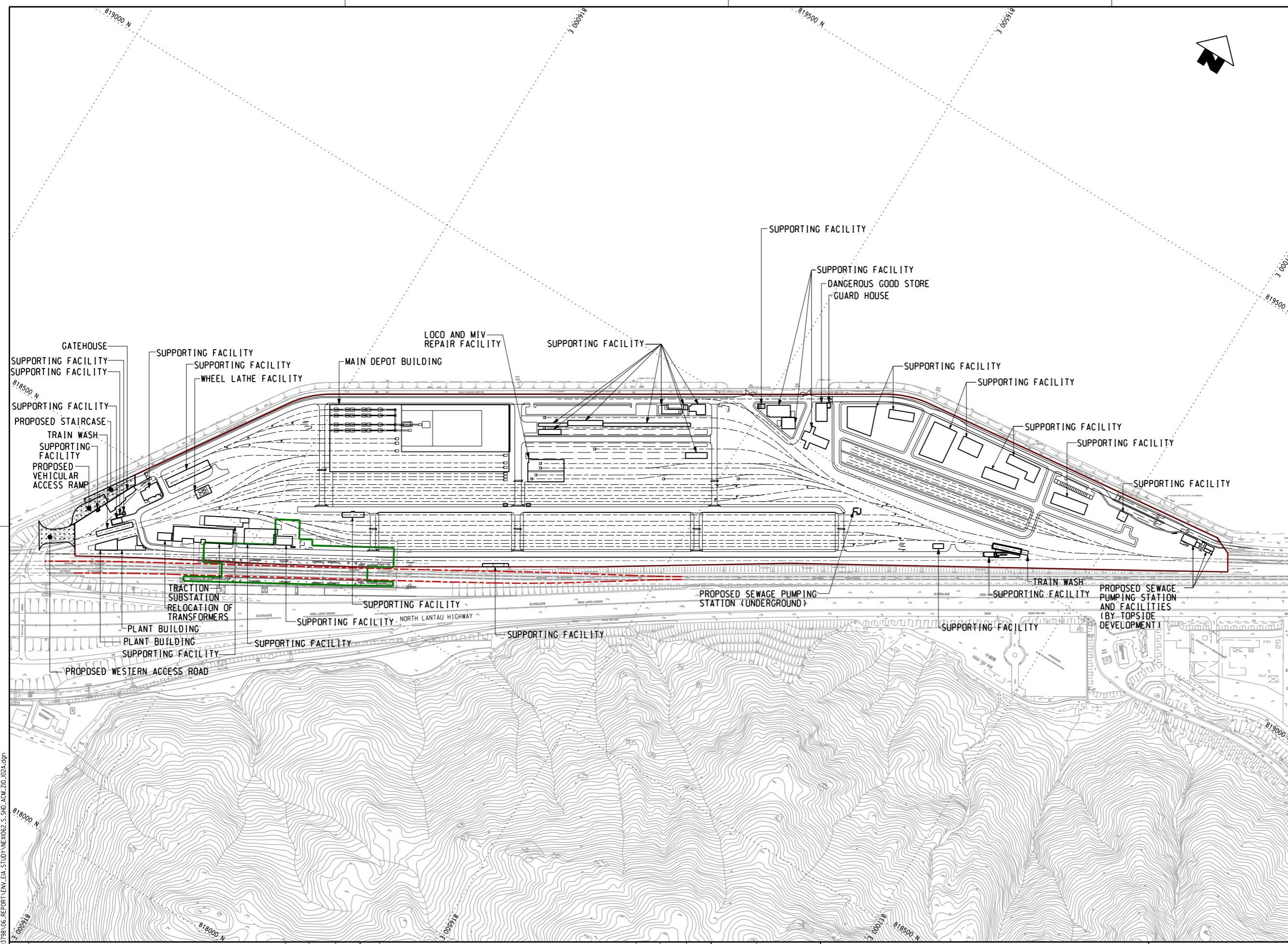
TITLE		SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS	
SCOPE OF PROJECT		SCOPE OF PROJECT	
SCALE	DRAWING NO.	REV.	
1 : 3500 @ A1	NEX1062/S/SHD/ACM/Z10/101	A	



KEY PLAN
(SCALE 1 : 50000)

- LEGEND:**
- EXISTING/REPROVISIONED SHD BOUNDARY
 - - - MODIFIED TCL/AEL ALIGNMENT
 - PROPOSED SHD (INDICATIVE)

REMARK:
LAYOUT WAS DEVELOPED DURING EIA STAGE AND IS SUBJECT TO THE DETAIL DESIGN DEVELOPMENT



P:\Projects\160493798\01_CAD_ADMIN\02_ISSUATION\01_PLOT_DRIVER\13_BW_COL_SYSTEM_STO.PLT
 PLOT DRW: 2017/4/3 2:09:44
 MODELNAME: 2017/4/3 2:09:44
 PLENNAME: P:\Projects\160493798\06_REPORT\ENV\EA\STUDY\NEX1062_S_SHD_ACM_Z10_102A.dgn

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	PRELIMINARY DESIGN REPORT ISSUE	SN	19AUG16	HL					

DRAWN	ZENG FU XIU
DESIGNED	ANTHEA FUNG
CHECKED	SAM NG
APPROVED	HL
DATE	19/AUG/2016

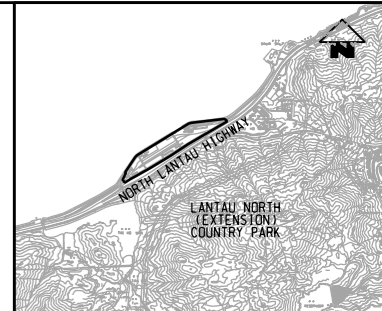
MTR

SIU HO WAN DEPOT

AECOM in association with **Aedas**

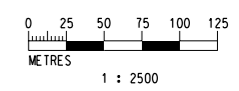
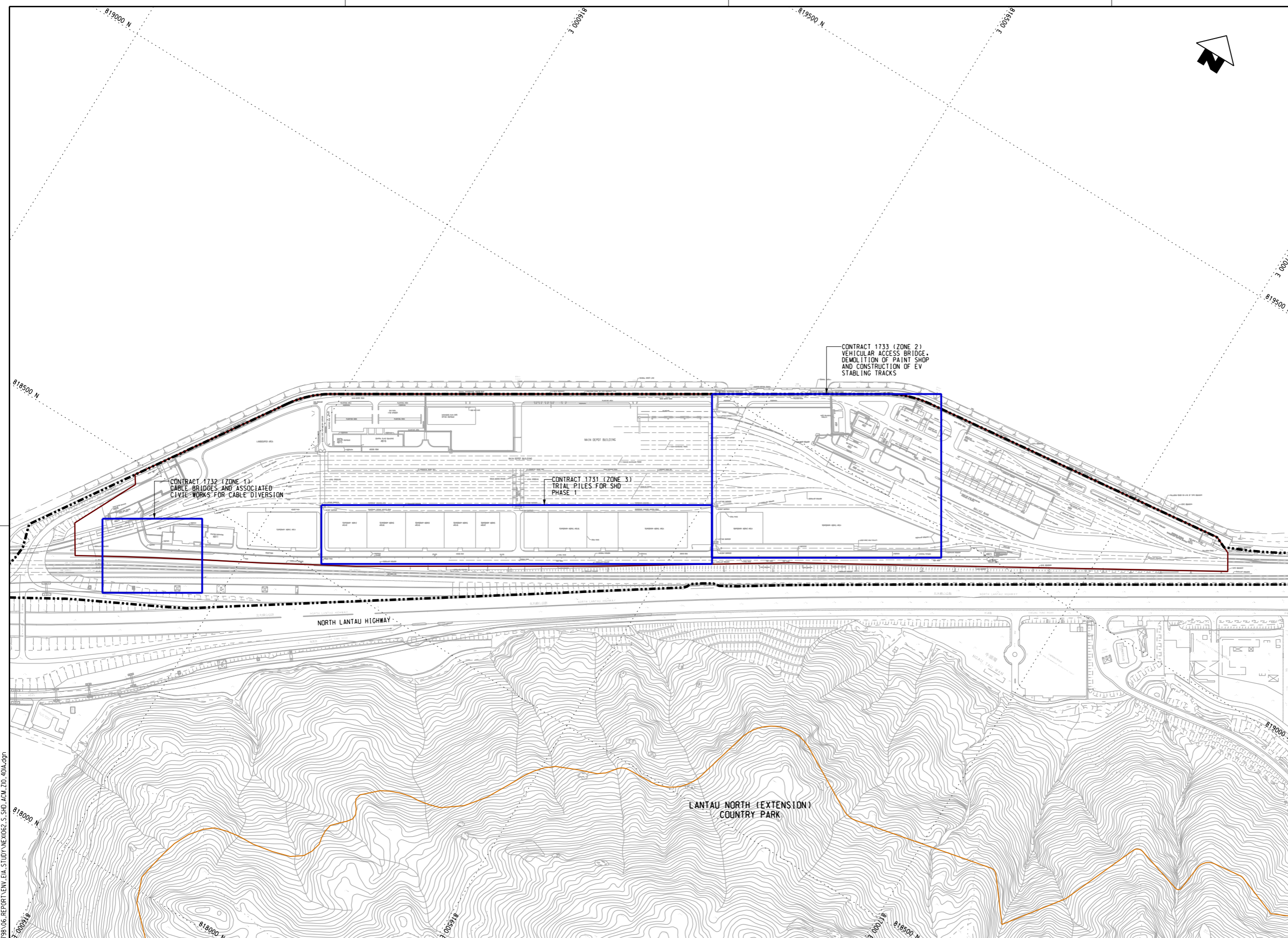
CADD REF. NEX1062_S_SHD_ACM_Z10_102A.dgn

TITLE		SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS	
		TENTATIVE LAYOUT OF REPROVISIONED SIU HO WAN DEPOT	
SCALE	DRAWING NO.	REV.	
1 : 2500 @ A1	NEX1062/S/SHD/ACM/Z10/102	A	



KEY PLAN
(SCALE 1 : 50000)

- LEGEND:**
- SCHEME BOUNDARY
 - EXISTING/REPROVISIONED SHD BOUNDARY
 - LANTAU NORTH (EXTENSION) COUNTRY PARK
 - ADVANCE WORKS BOUNDARY (INDICATIVE)



P:\Projects\60493798\01_CAD_ADMIN\02_UTILITY\01_PLOT_DRIVER\A3_BW_COL_SYSTEM_STO.PLT
 DefaulT PRINTED BY: LOMR 2021/02/27 9:00:46
 P:\Projects\60493798\06_REPORT\ENV\EN\STUDY\NE\062_S_SHD_ACM_Z10_401A.dgn

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	PRELIMINARY DESIGN REPORT ISSUE	SAM NG	06SEP21	HL					

DRAWN ZENG FU XIU
 DESIGNED ANTHEA FUNG
 CHECKED SAM NG
 APPROVED HL
 DATE 06/SEP/2021
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE HEARD ON SITE.
 (C) MTR CORPORATION LIMITED 2008 COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.

SIU HO WAN DEPOT
 ORIGINATOR
 in association with
 Aedas

CADD REF. NEX1062_S_SHD_ACM_Z10_401A.dgn

TITLE
 SIU HO WAN STATION AND SIU HO WAN DEPOT
 REPLANNING WORKS
 LOCATIONS OF ADVANCE CONSTRUCTION WORKS BOUNDARY

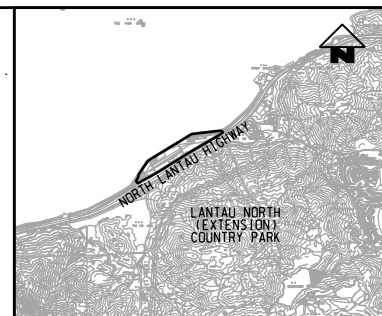
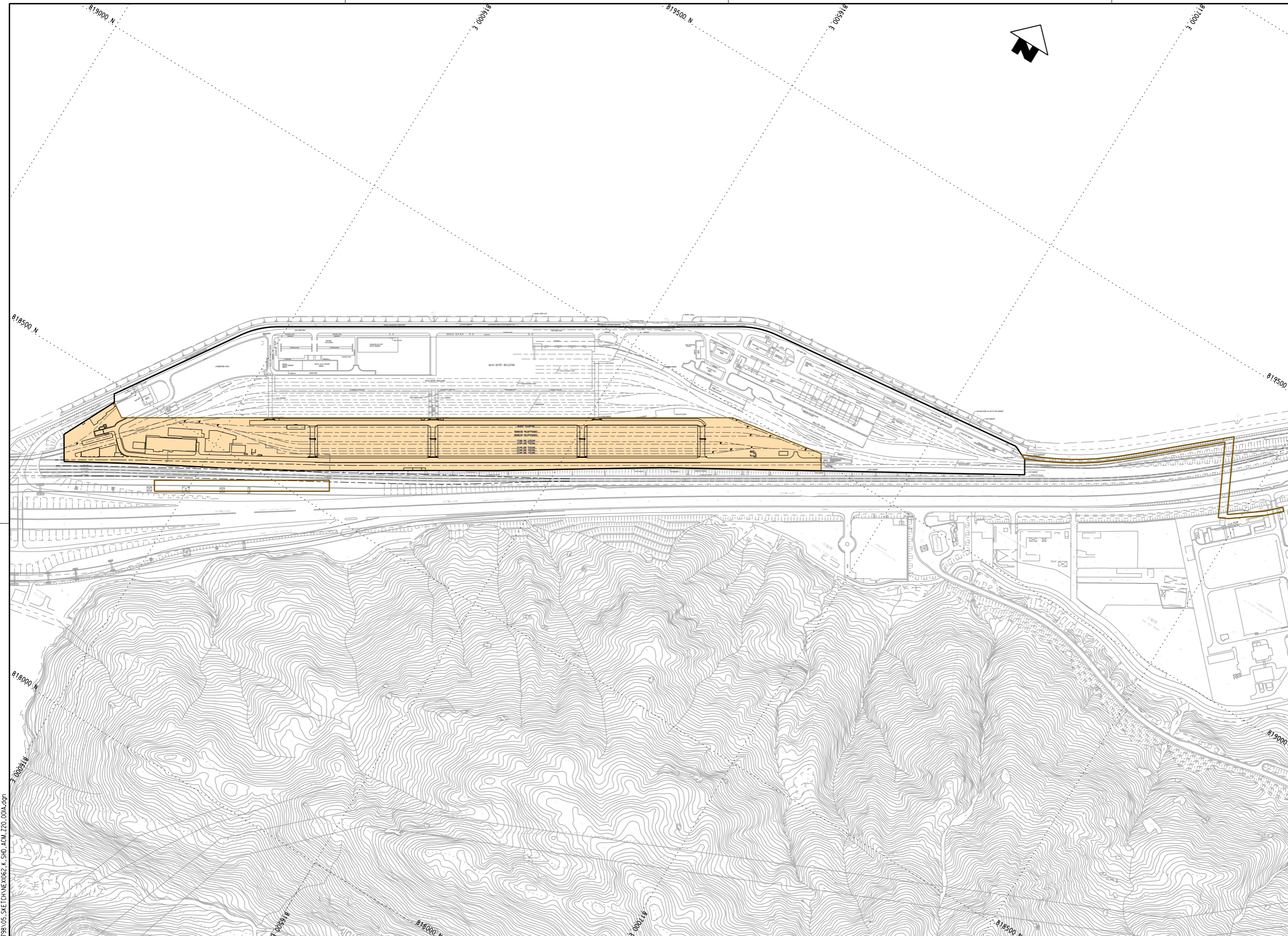
SCALE 1 : 2500 (A1) DRAWING NO. NEX1062/S/SHD/ACM/Z10/401 REV. A

Appendix 2.1

Tentative Works Programme of Advance Works

APPENDIX 2.2

**Location Plans of Phasing Works and Corresponding Decking
Arrangement**



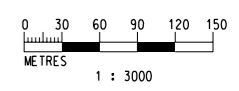
KEY PLAN
(SCALE 1 : 60000)

LEGEND:

- EXISTING/REPROVISIONED SHD BOUNDARY
- STAGE 1 REPLANNING WORKS BOUNDARY
- EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 1 SHD REPLANNING WORKS

REMARK:

STAGING AND LAYOUT WAS DEVELOPED DURING EIA STAGE AND IS SUBJECT TO THE DETAILED DESIGN DEVELOPMENT FOR EACH STAGE



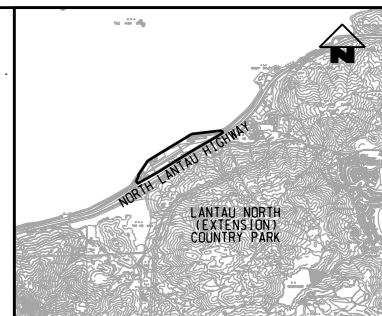
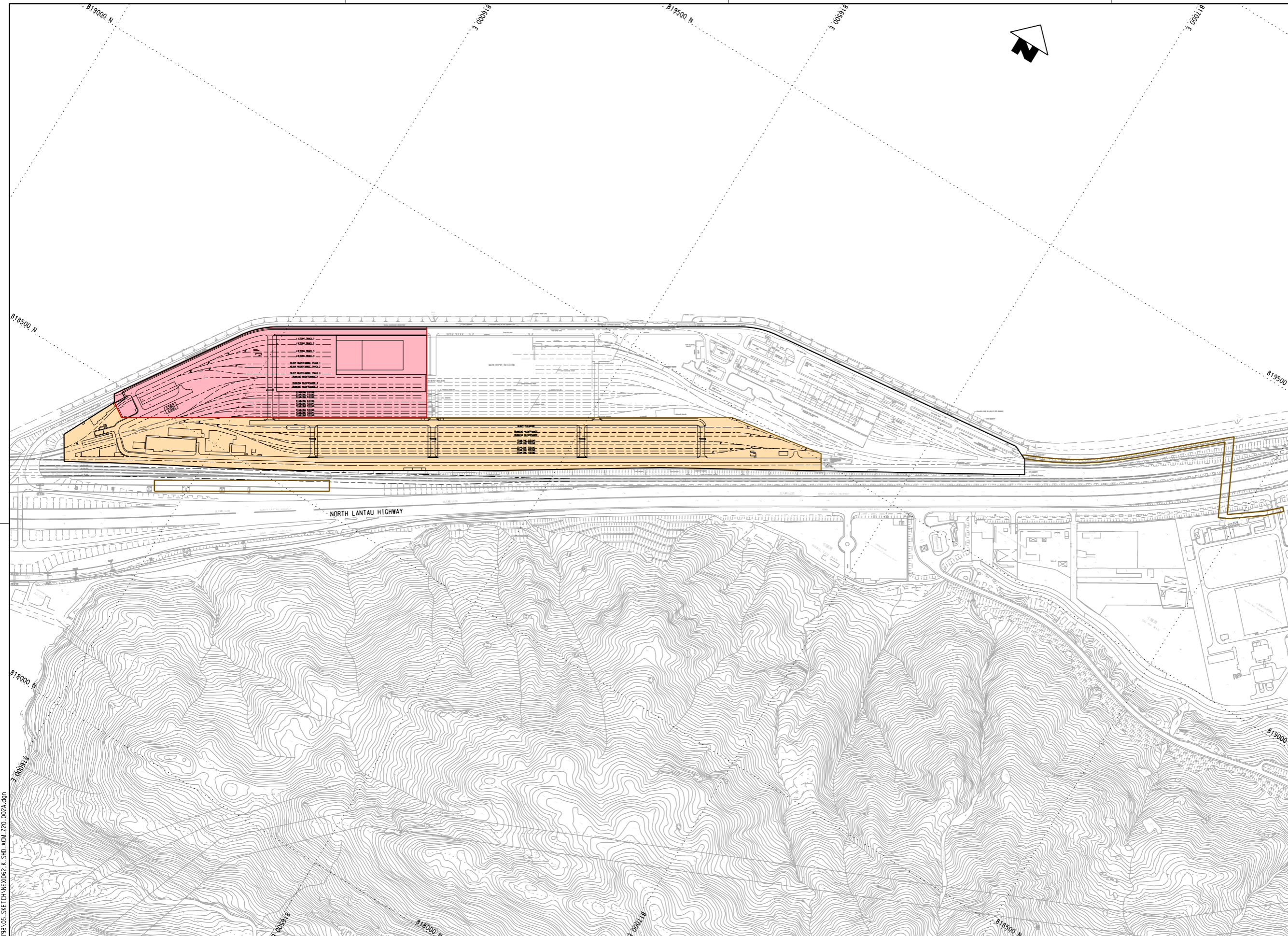
P:\Projects\60493798\01_CAD_ADMIN\02_UTILIZATION\01_PLOT_DRIVER\A3_BW_COLOUR_SYSTEM_STO.PLT
 PLOTTED BY: LVP 2021/9/1 16:53:0
 P:\Projects\60493798\01_CAD_ADMIN\02_UTILIZATION\01_PLOT_DRIVER\A3_BW_COLOUR_SYSTEM_STO.dgn

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	FIRST ISSUE	SAM NG	31 AUG 21	HL					

DRAWN	LVP		SIU HO WAN DEPOT ORIGINATOR in association with Aedas
DESIGNED	ANTHEA FUNG		
CHECKED	SAM NG		
APPROVED	HL		
DATE	31/AUG/2021	CADD REF.	NEX1062_K_SHD_ACM_Z20_001A.dgn

TITLE
 SIU HO WAN STATION AND SIU HO WAN DEPOT
 REPLANNING WORKS
 END OF STAGE 1 SHD REPLANNING WORKS

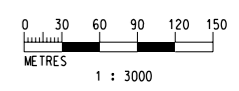
SCALE 1 : 3000 (A1) DRAWING NO. NEX1062/K/SHD/ACM/Z20/001 REV. A



- KEY PLAN**
(SCALE 1 : 60000)
- LEGEND:**
- EXISTING/REPROVISIONED SHD BOUNDARY
 - STAGE 1 REPLANNING WORKS BOUNDARY
 - STAGE 2 REPLANNING WORKS BOUNDARY
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 1 SHD REPLANNING WORKS
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 2 SHD REPLANNING WORKS

REMARK:

STAGING AND LAYOUT WAS DEVELOPED DURING EIA STAGE AND IS SUBJECT TO THE DETAILED DESIGN DEVELOPMENT FOR EACH STAGE



P:\Projects\60493798\01_CAD_ADMIN\02_UTILITY\01_PLOT_DRIVER\A3_BW_COLOUR_SYSTEM_STO.PLT
 PLOT DRW: 2021/9/1 16:54
 MODELNAME: P:\Projects\60493798\01_CAD_ADMIN\02_UTILITY\01_PLOT_DRIVER\A3_BW_COLOUR_SYSTEM_STO.PLT
 FILENAME: P:\Projects\60493798\01_CAD_ADMIN\02_UTILITY\01_PLOT_DRIVER\A3_BW_COLOUR_SYSTEM_STO.PLT

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	FIRST ISSUE	SAM NG	31 AUG 21	HL					

DRAWN LVP
 DESIGNED ANTHEA FUNG
 CHECKED SAM NG
 APPROVED HL
 DATE 31/AUG/2021
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
 (C) MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.

MTR

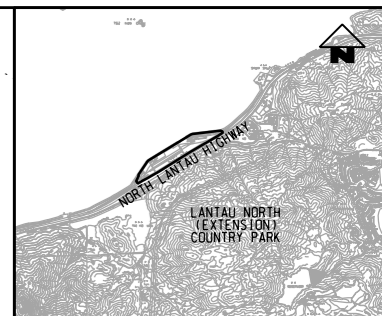
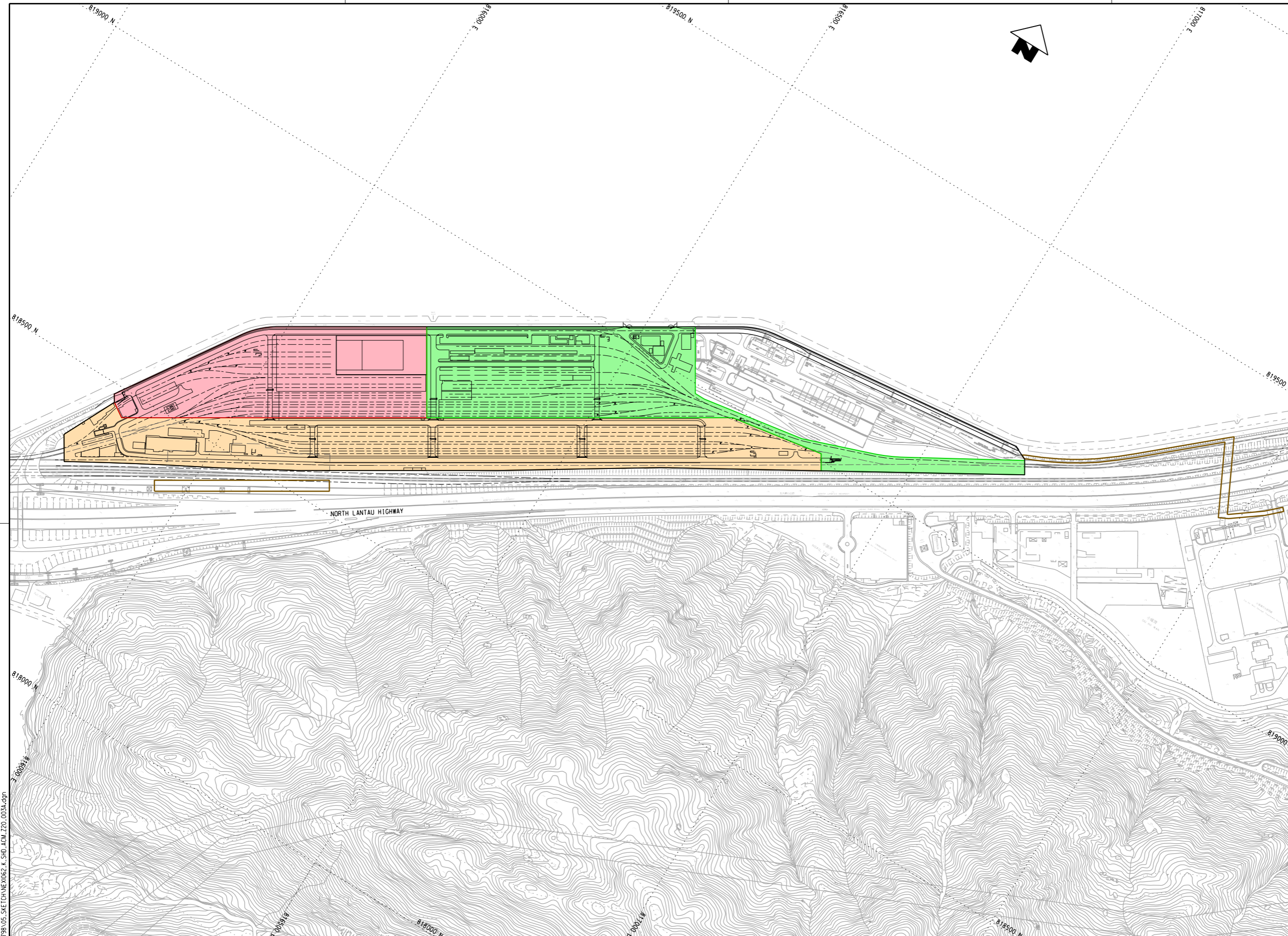
SIU HO WAN DEPOT

AECOM in association with Aedas

CADD REF. NEX1062_K_SHD_ACM_Z20_002A.dgn

TITLE SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS
END OF STAGE 2 SHD REPLANNING WORKS

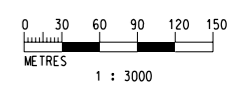
SCALE 1 : 3000 (A1) DRAWING NO. NEX1062/K/SHD/ACM/Z20/002 REV. A



KEY PLAN
(SCALE 1 : 60000)

- LEGEND:**
- EXISTING/REPROVISIONED SHD BOUNDARY
 - STAGE 1 REPLANNING WORKS BOUNDARY
 - STAGE 2 REPLANNING WORKS BOUNDARY
 - STAGE 3 REPLANNING WORKS BOUNDARY
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 1 SHD REPLANNING WORKS
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 2 SHD REPLANNING WORKS
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 3 SHD REPLANNING WORKS

REMARK:
STAGING AND LAYOUT WAS DEVELOPED DURING EIA STAGE AND IS SUBJECT TO THE DETAILED DESIGN DEVELOPMENT FOR EACH STAGE



PLOT DRW: \$PLOTDRW1\$
 MODEL: \$MODEL1\$
 FILENAME: \$FILENAME1\$

PRINTED BY: LVP
 DATE: 2021/08/31
 MODEL: \$MODEL1\$
 FILENAME: \$FILENAME1\$

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	FIRST ISSUE	SAM NG	31 AUG 21	HL					

DRAWN	LVP
DESIGNED	ANTHEA FUNG
CHECKED	SAM NG
APPROVED	HL
DATE	31/AUG/2021

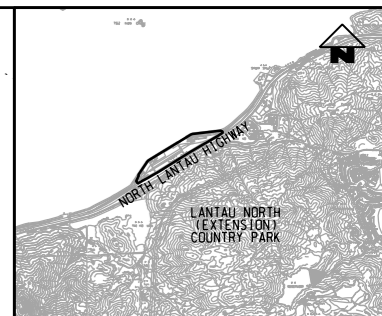
MTR

SIU HO WAN DEPOT

AECOM in association with Aedas

CADD REF. \$FILES\$

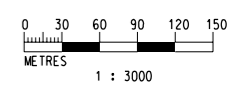
TITLE		SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS END OF STAGE 3 SHD REPLANNING WORKS	
SCALE	DRAWING NO.	REV.	
1 : 3000 (A1)	NEX1062/K/SHD/ACM/Z20/003	A	



- KEY PLAN**
(SCALE 1 : 60000)
- LEGEND:**
- EXISTING/REPROVISIONED SHD BOUNDARY
 - STAGE 1 REPLANNING WORKS BOUNDARY
 - STAGE 2 REPLANNING WORKS BOUNDARY
 - STAGE 3 REPLANNING WORKS BOUNDARY
 - STAGE 4 REPLANNING WORKS BOUNDARY
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 1 SHD REPLANNING WORKS
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 2 SHD REPLANNING WORKS
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 3 SHD REPLANNING WORKS
 - EXTENT OF CONCRETE SLAB UPON COMPLETION OF STAGE 4 SHD REPLANNING WORKS

REMARK:

STAGING AND LAYOUT WAS DEVELOPED DURING EIA STAGE AND IS SUBJECT TO THE DETAILED DESIGN DEVELOPMENT FOR EACH STAGE



PLOT DRW: \$PLTDRW1\$
 MODELNAME: \$MODELNAME\$
 FILENAME: \$FILENAME\$
 PRINTED BY: LVP
 DATE: 2021/08/31
 MODELNO: 60403798/UGS_SHE/CHNEX062_K_SHD_ACM/Z20_004A.dgn
 45322

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	FIRST ISSUE	SAM NG	31 AUG 21	HL					

DRAWN	LVP
DESIGNED	ANTHEA FUNG
CHECKED	SAM NG
APPROVED	HL
DATE	31/AUG/2021

MTR

SIU HO WAN DEPOT

ORIGINATOR

AECOM in association with Aedas

CADD REF. \$FILES\$

TITLE		SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS END OF STAGE 4 SHD REPLANNING WORKS	
SCALE	DRAWING NO.	REV.	
1 : 3000 (A1)	NEX1062/K/SHD/ACM/Z20/004	A	