Civil Engineering and Development Department

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works Design and Construction

Quarterly EM&A Report (Version 1.0)

February 2017 to April 2017

Approved By	(Dr. Priscilla Choy, Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

CINOTECH CONSULTANTS LTD
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2151 2083 Fax: (852) 3107 1388
Email: info@cinotech.com.hk

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EXECUTIVE SUMMARY

Introduction

1. This is the 2nd Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction" (hereinafter called "the Project"). This report documents the findings of EM&A Works conducted between 1st February 2017 and 30th April 2017.

2. The construction programme is presented in **Appendix A**. The construction activities undertaken in the reporting quarter were:
   - Site Clearance in Portions A, B, C, D, E, F, G, H, I, M and N;
   - Construction of wheel washing facilities in Portions B, C, E and F;
   - Ground investigation in Portions D, E, F, H and J;
   - Construction of RC structure and public toilet in Portion L;
   - Tree felling in Portions A, B, C, D, E, F, G, H, I, M and N;
   - Construction of retaining wall in Portions A, C, D, E and K;
   - Construction of subway in Portions B and I;
   - Utilities diversion works in Portions A, B, C, D, E, F, G, H, K and N;
   - Utilities laying in Portions A and B;
   - Earth and drainage works in Portions A, B, C, D, E and K;
   - Construction of rectangular channel in Portion E; and
   - Construction of project signboards in Works Area 3.

Environmental Monitoring Works

3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

4. Summary of the non-compliance in the reporting quarter for the Project is tabulated in Table I.

Table I Non-compliance Record for the Project in the Reporting Quarter

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
November 2016			
Noise	0	0	N/A
December 2016			
Noise	0	0	N/A
January 2017			
Noise	0	0	N/A

5. No exceedance was recorded at any air quality or noise monitoring station during the reporting period.

Environmental Licenses and Permits

6. Licenses/Permits granted to the Project include:
   - Environmental Permits (EP) for the Project,
   - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
   - EP-501/2015 issued on 2 September 2015
   - Billing Account for Waste Disposal (Acc No.: 7025411)
   - Chemical Waste Producer (No.:WPN5213-524-K3261-01)
   - Effluent Discharge Licenses
     - WT00027672-2017
     - WT00027661-2017
     - WT00027606-2017
     - WT00027510-2017
     - WT00027509-2017
     - WT00027603-2017
     - WT00027508-2017
     - WT00027582-2017
     - WT00027584-2017
     - WT00027605-2017
     - WT00027607-2017

Key Information in the Reporting Quarter

7. Summary of key information in the reporting quarter is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

8. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

1. INTRODUCTION

Background

1.1 "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River" (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.

1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.

1.3 An Environmental Review (ER) Report of the "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2" had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.

1.4 "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction" (hereinafter called the "Project") covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing – Kuly Joint Venture (hereinafter called the "Contractor") for "Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works". The site location is shown in **Figure 1a-1h** respectively.

1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23rd November 2016. This is the 2nd Quarterly EM&A Report summarizing the EM&A works for the Project from 1st February 2017 – 30th April 2017.

Project Organizations

1.6 Different parties with different levels of involvement in the project organization include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR)
- Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.7 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Cinotech	Environmental Team	Dr. Priscilla Choy	2151 2089	3107 1388
		Ms. Ivy Tam	2151 2090	
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Michael Wan	9222 3089	N/A

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 The monitoring locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters designed for the routine impact monitoring were complied with the requirements stipulated under the EM&A Manual.

Monitoring Parameters and Monitoring Locations

2.2 The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise, landscape and visual due to the Project. The Project area and monitoring locations are depicted in **Figures 2a-2c**. **Appendix B** gives details of monitoring requirements.

Monitoring Methodology

2.3 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

2.4 Should the environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix C**.

Implementation Status of Environmental Mitigation Measures

2.5 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix E**. Status of required submissions under the Environmental Permit (EP) of the reporting period is presented in **Table 2.1**.

Table 2.1 Status of Required Submissions under EP

EP Condition	Submission	Submission Date
3.5	Monthly Environmental Monitoring & Audit Report (February 2016)	14 March 2017
	Monthly Environmental Monitoring & Audit Report (March 2016)	14 April 2017
	Monthly Environmental Monitoring & Audit Report (April 2017)	12 May 2017

Site Audit Summary

2.6 Site audits were carried out on a weekly basis. During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in **Appendix F**.

Status of Waste Management

2.7 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.

3. MONITORING RESULTS AND NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

3.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix H**.

Weather Conditions

3.2 The detail of weather conditions for each individual monitoring session was presented in monthly EM&A report.

Air Quality

3.3 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.

Construction Noise

3.4 All construction noise monitoring was conducted as scheduled in the reporting period. No Action and Limit Level exceedance was recorded.

3.5 The graphical presentations of the noise monitoring results are shown in **Appendix D**.

Landscape and Visual

3.6 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures of this project. No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

Influencing Factors on the Monitoring Results

3.7 During the reporting period, the major noise sources identified at the designated monitoring stations are as follows:

3.8

Table 3.1 Major Noise Sources during the Monitoring in the Reporting Period

Monitoring Stations	Locations	Major Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities

N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities at workshops near the village house

Comparison of EM&A results with EIA predictions

3.9 According to Section 12.5.1 (viii) of the EM&A Manual, the EM&A data are compared with the EIA predictions and summarized in **Annex I**.

3.10 Noise monitoring results for monitoring stations N2 and N3 were slightly higher than the range of predicted mitigated construction noise levels in the EIA report, while the results for monitoring stations N1 and N6 were within the range of predicted mitigated construction noise levels in the EIA report. The noise monitoring results for monitoring station N5 was lower than the range of predicted mitigated construction noise levels in the EIA report. No Action/Limit Level exceedance was recorded in the reporting period.

4. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Review of the Reasons for and the Implications of Non-compliance

4.1 No Action/Limit Level exceedance was recorded at all noise monitoring stations in the reporting quarter.

Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

4.2 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project.

Effectiveness of Mitigation Measures

4.3 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.

4.4 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.

4.5 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed. No non-compliance (exceedances) of Action/Limit Level was recorded.

4.6 No environmental complaints and environmental prosecution were received in the reporting quarter.

4.7 The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period (as shown in **Appendix F**) are met.

Recommendations

4.8 According to the environmental audits performed in the reporting month, the following recommendations were made:

Air Quality

- Water spraying should be provided frequently to unpaved and exposed area, and haul road for dust suppression.
- Site area near site entrance/exit should be kept clear of dust and proper wheel washing facility should be provided for wheel washing before vehicle leaving the site.

Waste/Chemical Management

- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Drip trays should be provided to oil/chemical containers and generator to avoid oil leakage. Any oil stain observed on ground should be properly removed as chemical waste. PMEs used in the site should be checked and maintained regularly in order to prevent accidental leakage of oil.

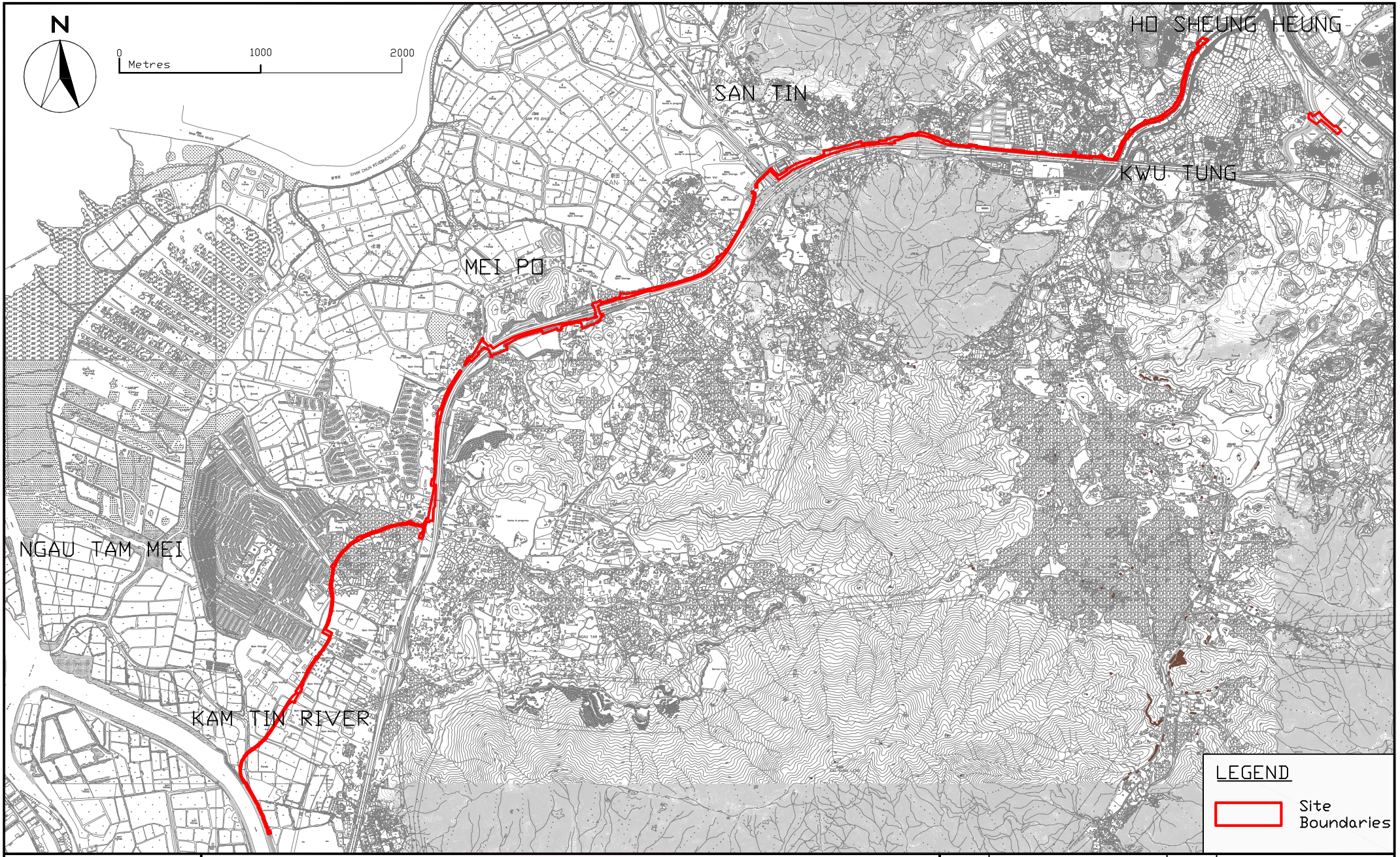
Landscape and Visual

- "No-intrusion" zones should be established for all retained and existing trees to avoid damage to trees by PMEs or workers. Conspicuous signs of retained trees should be displayed on the trees.

Water Quality

- Wheel washing bays in all portions within the site should be maintained regularly in order to ensure satisfactory water quality for effective wheel washing. Sand and silt should be removed frequently if necessary so as to further facilitate wheel washing for vehicles.
- Bunds near site boundary in all portions should be established or enhanced to prevent silty runoff or untreated wastewater entering public area.

FIGURES



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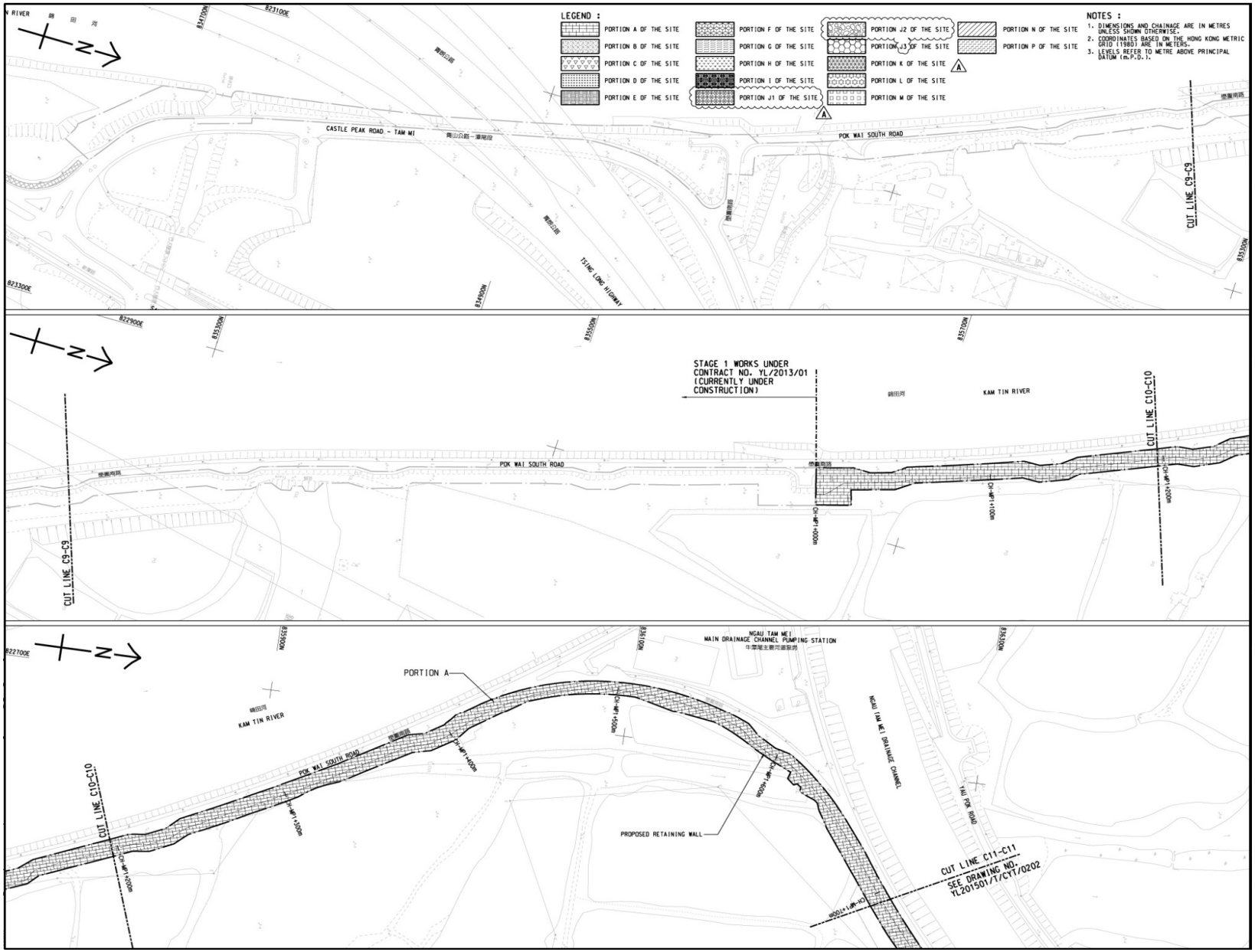
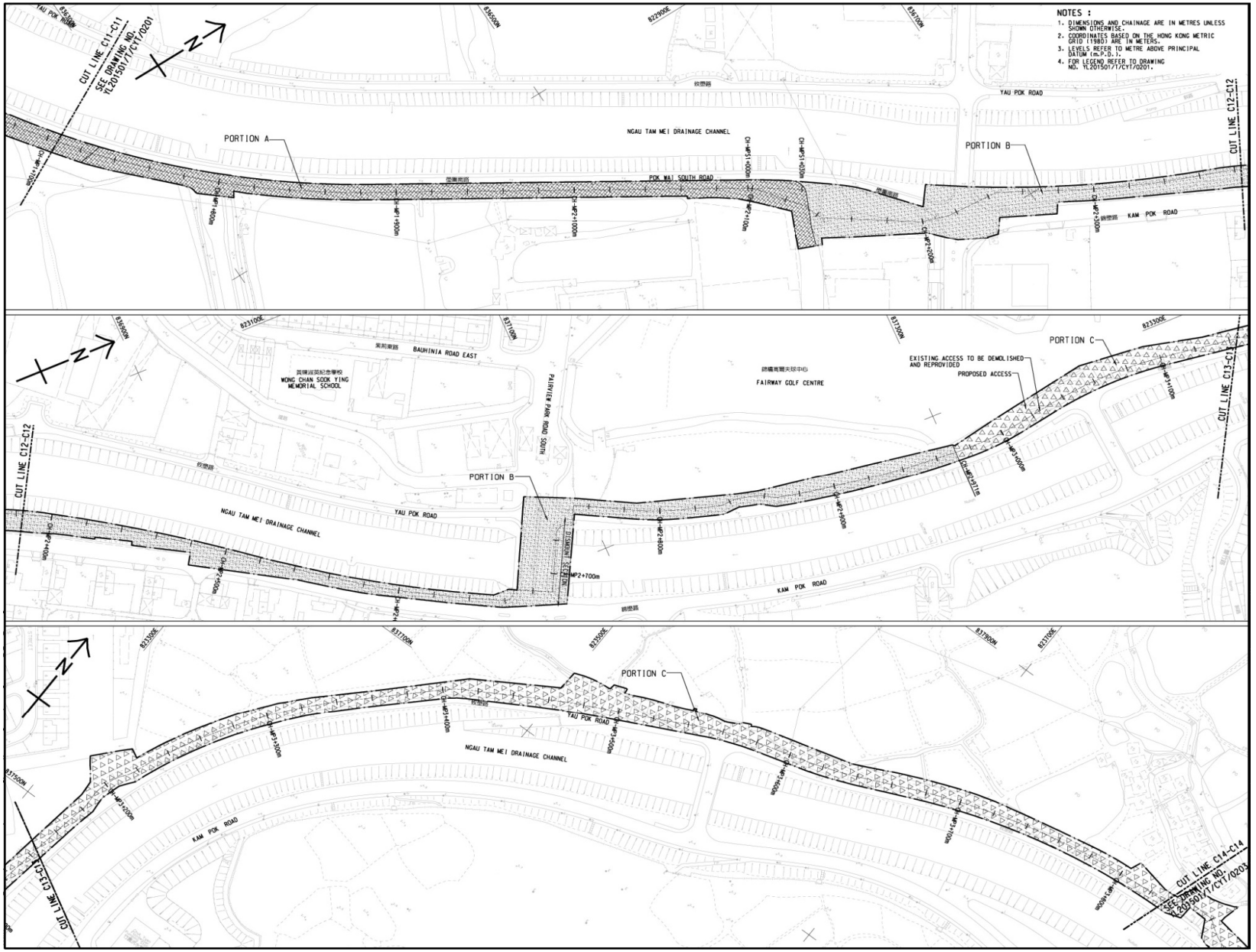
SITE LAYOUT PLAN

SCALE	A4 1:35m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	1a
		REV	–



Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1b

CINOTECH

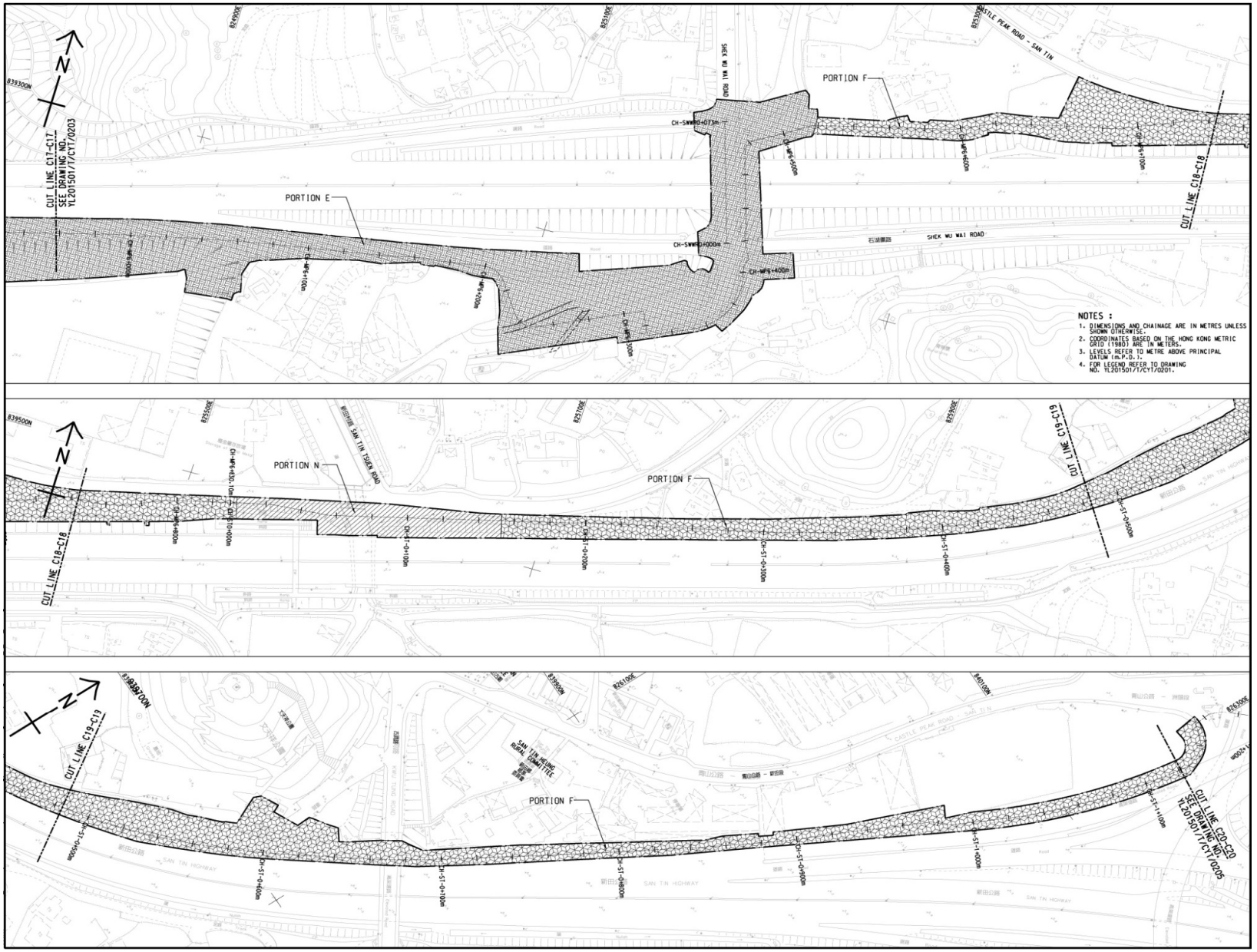


Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1c

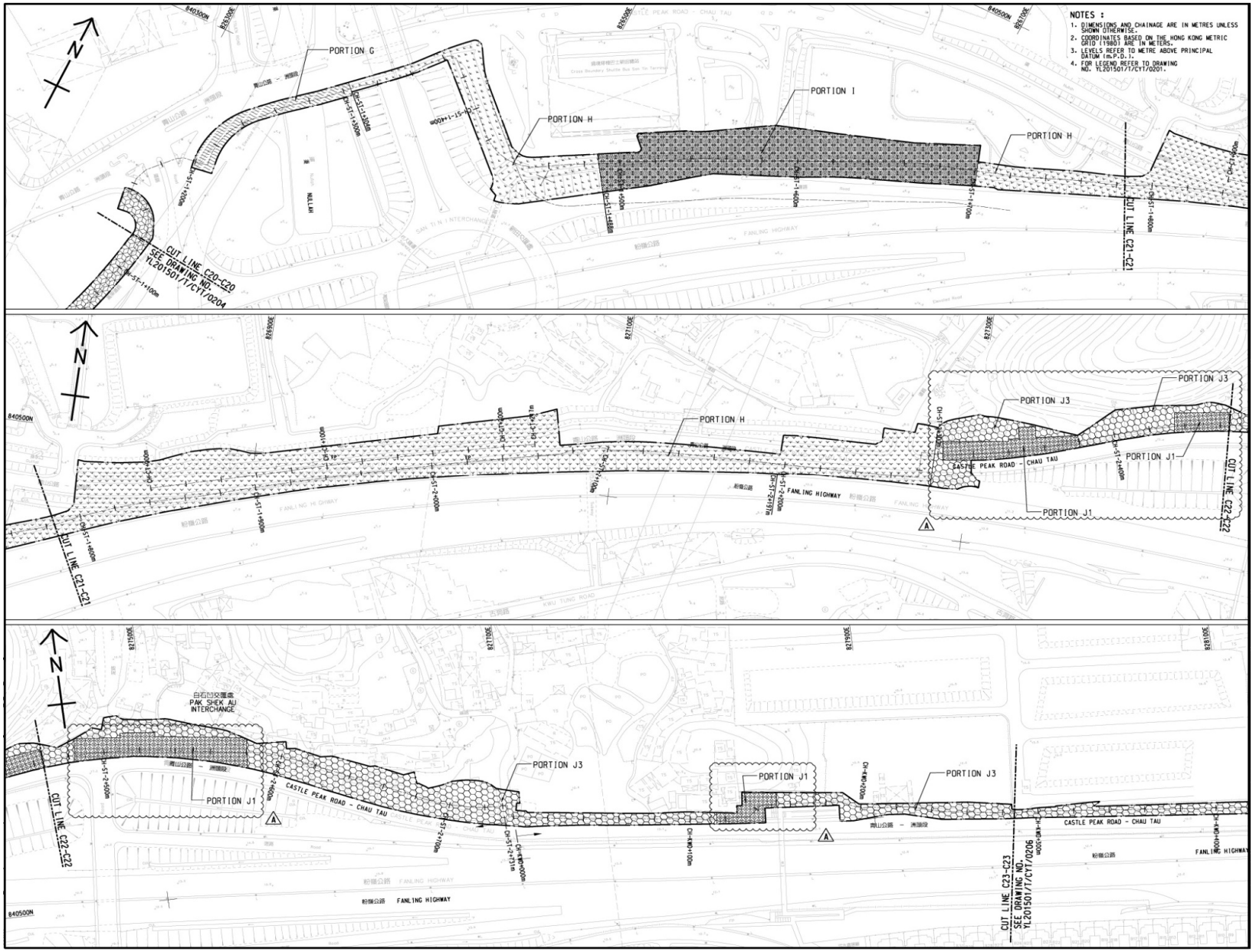
CINOTECH

Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1d

CINOTECH

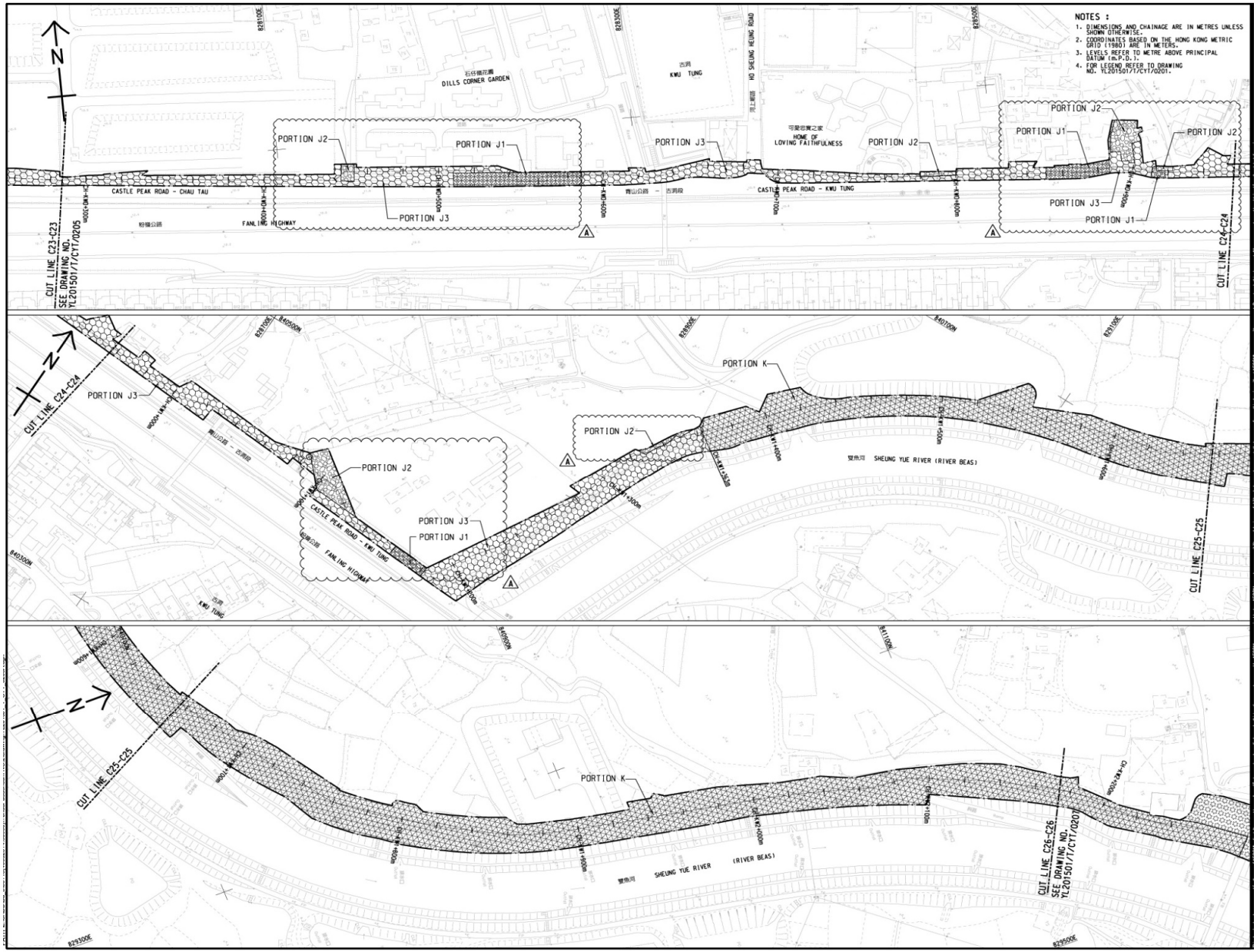


Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1e



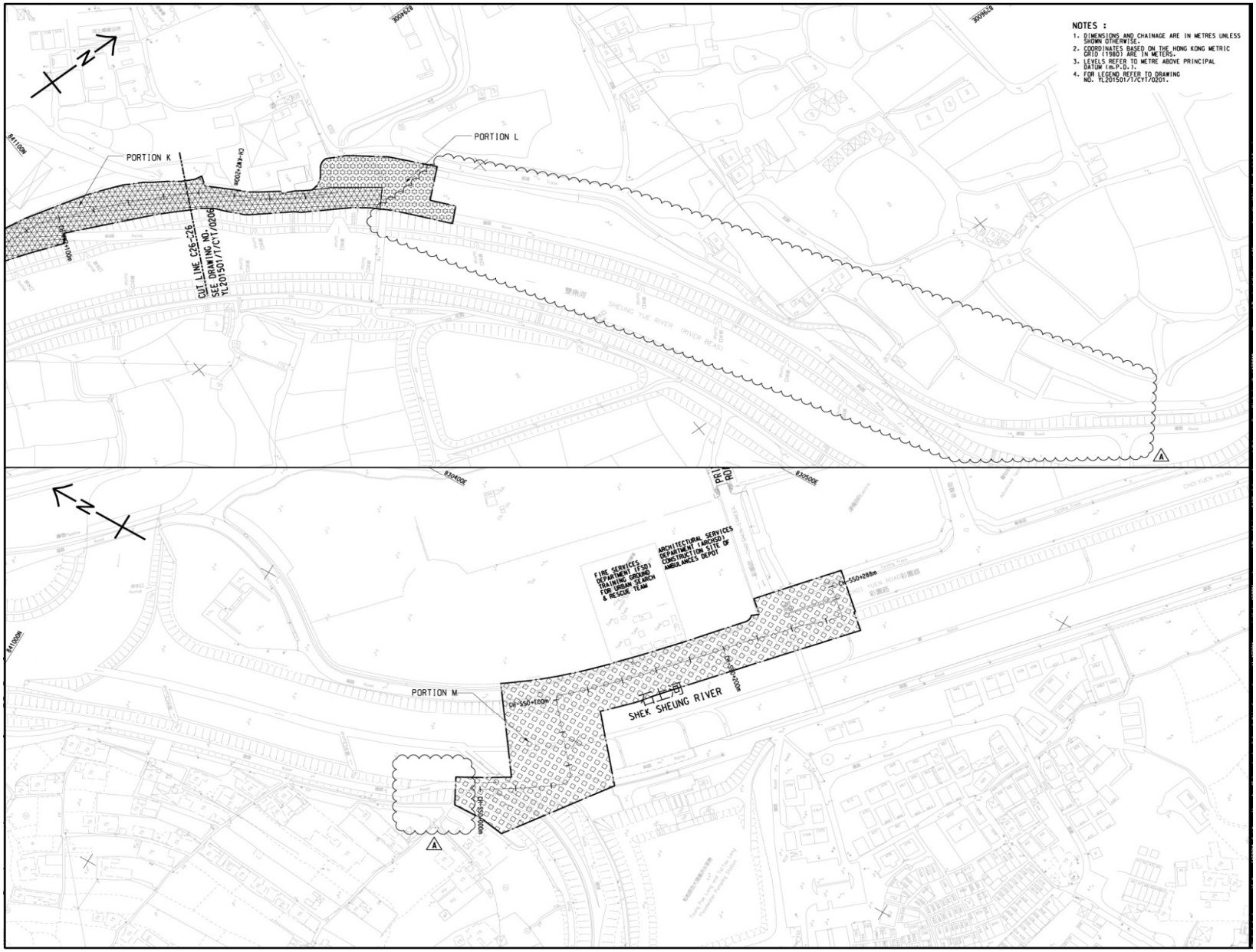
Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1f

CINOTECH



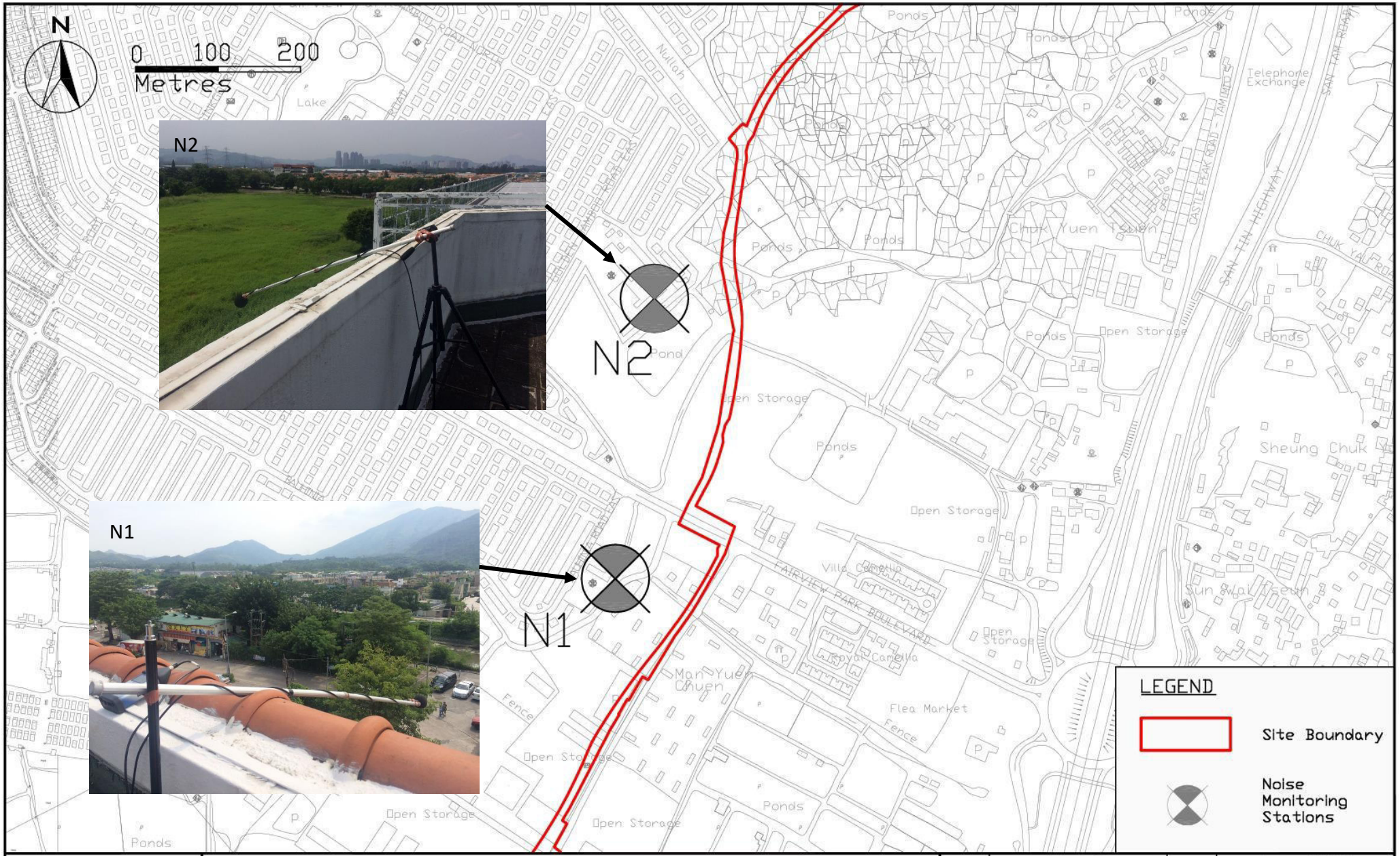
Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1g

CINOTECH



Title	Agreement No. CE 67/2015(HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works Design and Construction Site Layout Plan	Scale N.T.S Date Dec-16	Project No. MA16036 Figure 1h

CINOTECH



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Locations of the Noise Monitoring Stations (N1, N2)

SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO. 2a	REV –

N

0 100 200

Metres

N3

N7

LEGEND

Site Boundary

Noise Monitoring Stations

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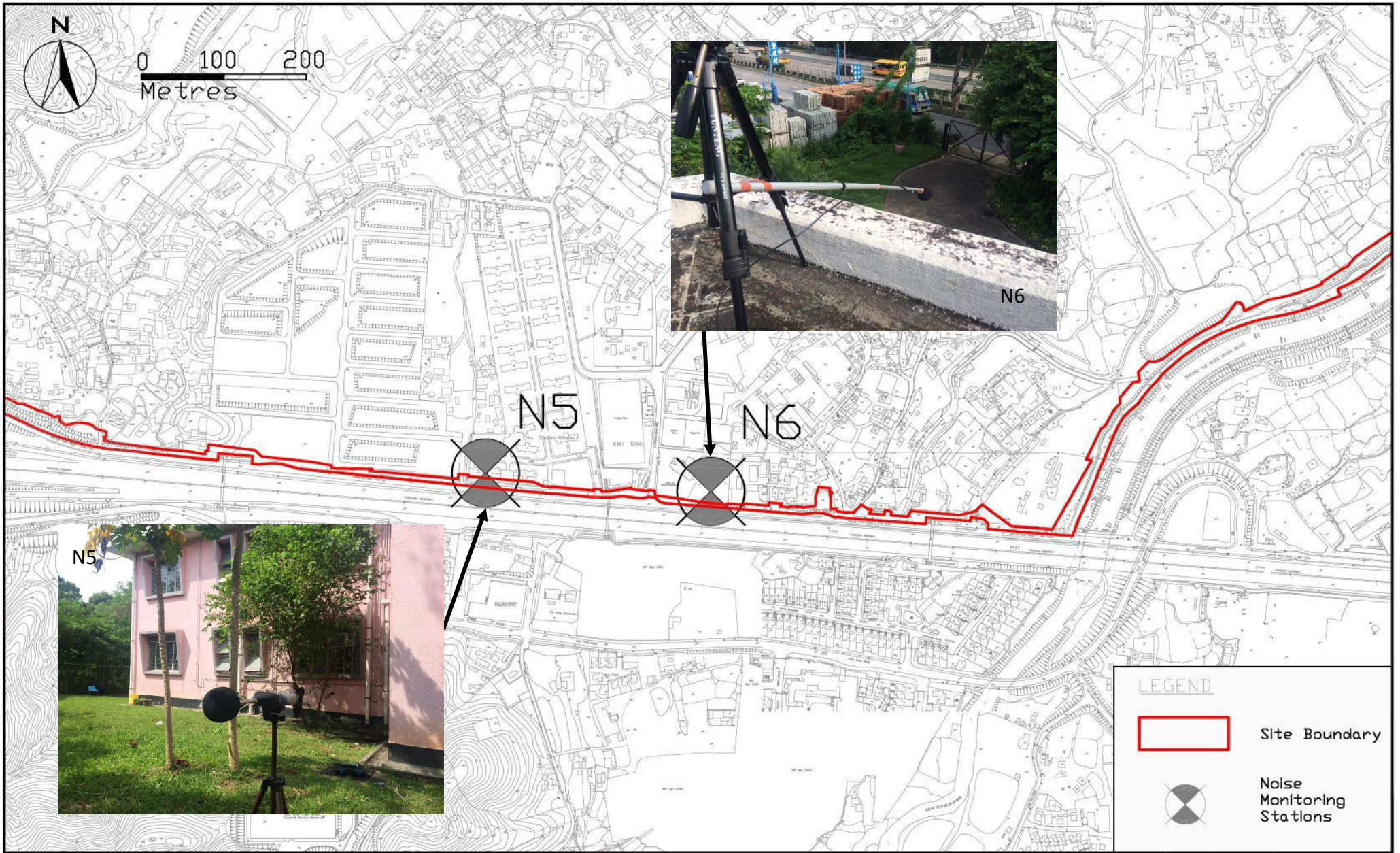
Locations of the Noise Monitoring Stations (N3, N7)

SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2b
		REV	-



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Locations of the Noise Monitoring Stations (N5, N6)

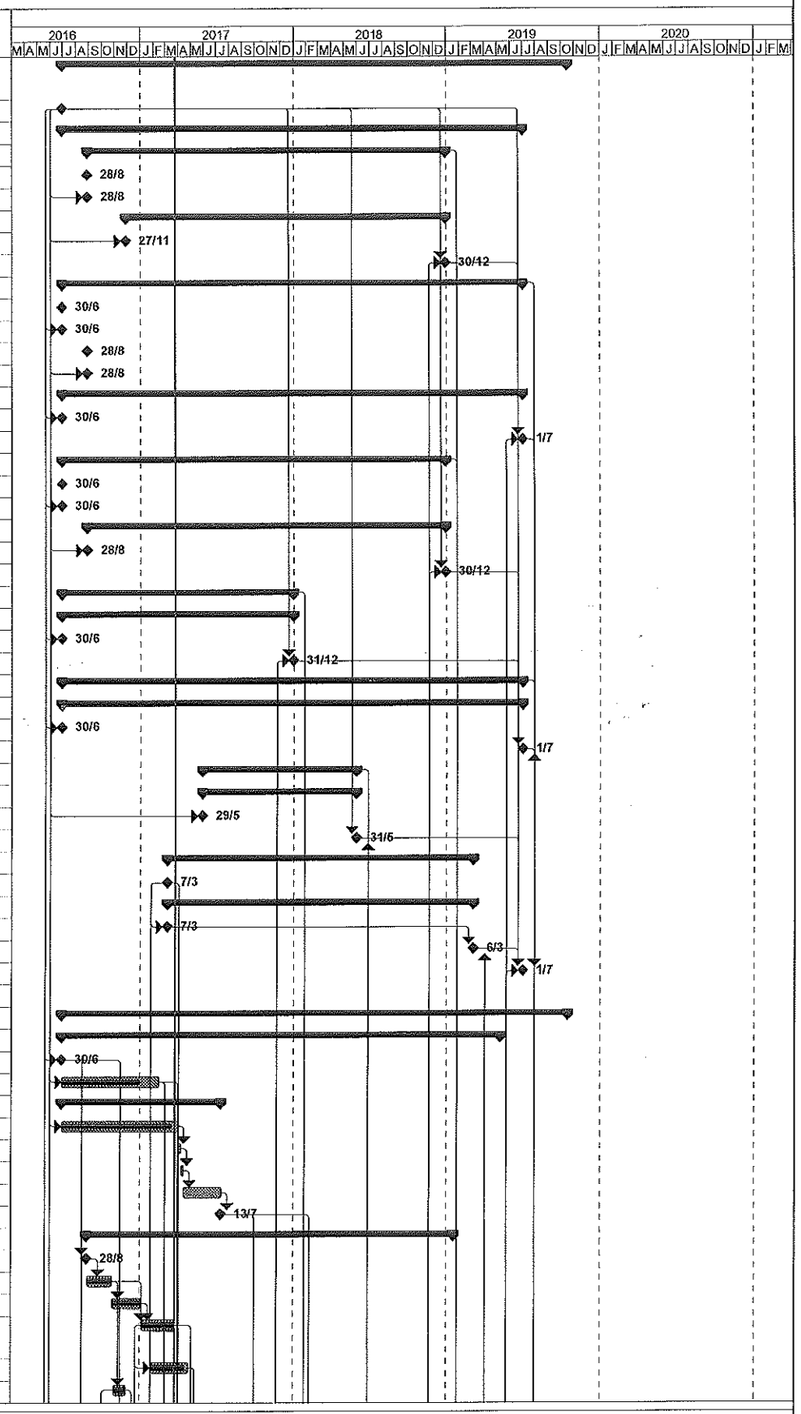
SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2c
		REV	–

APPENDIX A
CONSTRUCTION PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
1	**CONTRACT DURATION (ALL WORKS EXCEPT LANDSCAPING AND ESTABLISHMENT)**	**1204 days**		**Thu 30/6/16**	**Wed 16/10/19**	**-107 days**	**32%**	
2	COMMENCEMENT OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	
3	**ACCESS DATES AND COMPLETION DATES FOR CONTRACTS**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**	
4	**SECTION W1 (PORTION A,B,C & D)**	**854 days**		**Sun 28/8/16**	**Sun 30/12/18**	**0 days**	**0%**	
5	**PORTION A & C**	**0 days**		**Sun 28/8/16**	**Sun 28/8/16**	**854 days**	**0%**	
6	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%	2SS+60 days
7	**PORTION B & D**	**763 days**		**Sun 27/11/16**	**Sun 30/12/18**	**0 days**	**0%**	
8	ACCESS DATE	0 days		Sun 27/11/16	Sun 27/11/16	763 days	0%	2SS+151 days
9	COMPLETION DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	2FS+913 days,157
10	**SECTION W2 (PORTION E, F, G, H, I & N)**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**	
11	**PORTION G, I & N**	**0 days**		**Thu 30/6/16**	**Thu 30/6/16**	**1097 days**	**0%**	
12	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS
13	**PORTION E & H**	**0 days**		**Sun 28/8/16**	**Sun 28/8/16**	**1037 days**	**0%**	
14	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	1037 days	0%	2SS+60 days
15	**PORTION F**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**	
16	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS
17	COMPLETION DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	2FS+1097 days,331
18	**SECTION W3 (PORTION K, J1)**	**914 days**		**Thu 30/6/16**	**Sun 30/12/18**	**0 days**	**0%**	
19	**PORTION K**	**0 days**		**Thu 30/6/16**	**Thu 30/6/16**	**914 days**	**0%**	
20	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	914 days	0%	2SS
21	**PORTION J1**	**854 days**		**Sun 28/8/16**	**Sun 30/12/18**	**0 days**	**0%**	
22	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%	2SS+60 days
23	COMPLETION DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	2FS+913 days,366
24	**SECTION W4**	**550 days**		**Thu 30/6/16**	**Sun 31/12/17**	**0 days**	**0%**	
25	**PORTION L**	**550 days**		**Thu 30/6/16**	**Sun 31/12/17**	**0 days**	**0%**	
26	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	550 days	0%	2SS
27	COMPLETION DATE	0 days		Sun 31/12/17	Sun 31/12/17	0 days	0%	2FS+548 days,381
28	**SECTION W5**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**	
29	**PORTION M**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**0%**	
30	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS
31	COMPLETION DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	2FS+1097 days,425
32	**SECTION W6**	**367 days**		**Mon 29/5/17**	**Thu 31/5/18**	**0 days**	**0%**	
33	**PORTION P**	**367 days**		**Mon 29/5/17**	**Thu 31/5/18**	**0 days**	**0%**	
34	ACCESS DATE	0 days		Mon 29/5/17	Mon 29/5/17	367 days	0%	2SS+334 days
35	COMPLETION DATE	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	2FS+701 days,436
36	**SECTION W7**	**730 days**		**Tue 7/3/17**	**Wed 6/3/19**	**0 days**	**0%**	
37	***INSTRUCTION TO EXECISE***	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	
38	**PORTION J2 & J3**	**730 days**		**Tue 7/3/17**	**Wed 6/3/19**	**0 days**	**0%**	
39	ACCESS DATE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	37SS
40	COMPLETION DATE	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	39FS+730 days,473
41	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	9,17,23,27,31,35,40,474
42								
43	**PLANNED WORKS PROGRAMME**	**1204 days**		**Thu 30/6/16**	**Wed 16/10/19**	**-107 days**	**32%**	
44	**SECTION W1 (PORTION A,B,C & D)**	**1044 days**		**Thu 30/6/16**	**Thu 9/5/19**	**-130 days**	**31%**	
45	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS
46	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W1	230 days		Thu 30/6/16	Tue 14/2/17	-19 days	80%	2SS
47	**CONTRACTOR DESIGN FOR RETAINING WALL**	**379 days**		**Thu 30/6/16**	**Thu 13/7/17**	**0 days**	**69%**	
48	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	275 days		Thu 30/6/16	Fri 31/3/17	0 days	95%	45SS
49	REVIEW AND APPROVED BY SUPERVISOR	7 days		Sat 1/4/17	Fri 7/4/17	0 days	0%	48
50	REVIEW AND APPROVED BY PM	7 days		Sat 8/4/17	Fri 14/4/17	0 days	0%	49
51	REVIEW AND APPROVED BY GEO/HYD	90 days		Sat 15/4/17	Thu 13/7/17	0 days	0%	50
52	COMMENCEMENT OF SITE WORK	0 days		Thu 13/7/17	Thu 13/7/17	0 days	0%	51
53	**PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)**	**873 days**		**Sun 28/8/16**	**Fri 18/1/19**	**-19 days**	**40%**	
54	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days
55	INITIAL SURVEY	60 days	3 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	54
56	TREE SURVEY	70 days	3 days	Fri 28/10/16	Thu 5/1/17	0 days	100%	55
57	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO MEMO)	80 days	5 days	Fri 6/1/17	Sun 26/3/17	0 days	100%	56,55
58	UTILITIES DIVERSION WORKS (CLP & PCCW)	90 days	0 day	Fri 27/1/17	Wed 26/4/17	-12 days	90%	57SS+21 days
59	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Tue 1/11/16	Mon 28/11/16	0 days	100%	55



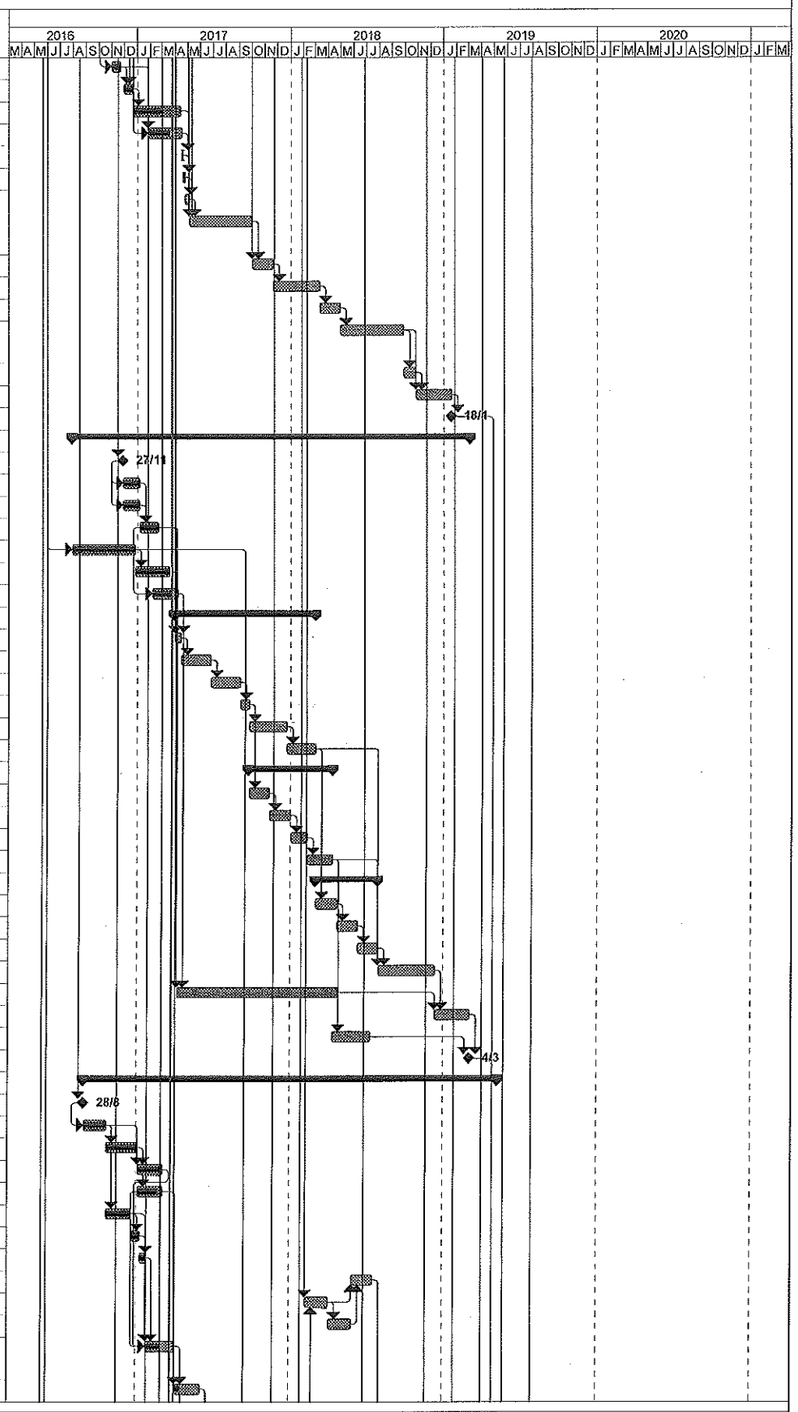
Task — Summary — External Milestone — Inactive Summary — Manual Summary Rollup — Finish-only — Progress
Split — Project Summary — Inactive Task — Manual Task — Manual Summary — Critical — Deadline
Milestone — External Tasks — Inactive Milestone — Duration-only — Start-only — Critical Split

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
60	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 1/11/16	Mon 21/11/16	0 days	100%	59SS
61	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 29/11/16	Mon 19/12/16	0 days	100%	59,60
62	RETAINING WALL - RW 8A (60M)	115 days	5 days	Tue 20/12/16	Thu 13/4/17	1 day	63%	61
63	RETAINING WALL - RW 8B (40M)	80 days	5 days	Fri 27/1/17	Sun 16/4/17	-19 days	64%	60,57SS+21 days
64	NCE EFFECT ON ADDED SUB SOIL DRAIN	2 days	0 day	Mon 17/4/17	Tue 18/4/17	-19 days	0%	63
65	NCE EFFECT ON ADDED WATER STOP	5 days		Wed 19/4/17	Sun 23/4/17	-19 days	0%	64
66	NCE EFFECT ON ADDED CHAMFER	10 days		Mon 24/4/17	Wed 3/5/17	-19 days	0%	65
67	EARTHWORKS AND DRAINAGE WORKS, UTILITIES LAYING BETWEEN MP1+000 TO MP 1+600 (EXCLUDING RETAINING WALL RW7, 7A & 7B)	150 days	10 days	Thu 4/5/17	Sat 30/9/17	-19 days	0%	62,57,58,66
68	RETAINING WALL - RW7 (20M) (CSD - FILL SLOPE)	50 days	4 days	Sun 1/10/17	Sun 19/11/17	-19 days	0%	67,52
69	RETAINING WALL - RW 7A (67M) (CSD - FILL SLOPE)	110 days	7 days	Mon 20/11/17	Fri 9/3/18	-19 days	0%	68
70	RETAINING WALL - RW 7B (20M) (CSD - FILL SLOPE)	50 days	3 days	Sat 10/3/18	Sat 28/4/18	-19 days	0%	69
71	EARTHWORKS AND DRAINAGE WORKS BETWEEN MP1+600 TO MP 2+100	150 days	10 days	Sun 29/4/18	Tue 25/9/18	-19 days	0%	70
72	STAIRCASE	30 days	3 days	Wed 26/9/18	Thu 25/10/18	-19 days	0%	71
73	ROAD WORKS	85 days	7 days	Fri 26/10/18	Fri 18/1/19	-19 days	0%	71,72
74	COMPLETION OF PORTION A	0 days		Fri 18/1/19	Fri 18/1/19	-19 days	0%	73
75	**PORTION B (MP 2+130 - MP 2+950)**	**948 days**		**Sat 30/7/16**	**Mon 4/3/19**	**-64 days**	**23%**	
76	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days
77	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	76SS
78	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	76SS
79	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	45 days	4 days	Sat 7/1/17	Mon 20/2/17	0 days	100%	78,77
80	TTM PREPARATION	150 days	days	Sat 30/7/16	Mon 26/12/16	0 days	100%	2SS+30 days
81	TTM APPROVAL BY SUPERVISOR/PM/TMLG	82 days	2 days	Tue 27/12/16	Sat 18/3/17	0 days	100%	80
82	UTILITIES DIVERSION WORKS (CLP, PCCW & HCL)	60 days	0 day	Mon 6/2/17	Thu 6/4/17	-25 days	80%	79SS+30 days
83	**SUBWAY A WITH PUMP ROOM (4 BAYS) CONSTRUCTION**	**336 days**		**Sat 1/4/17**	**Fri 2/3/18**	**-64 days**	**0%**	
84	TTA ENABLING WORKS (STAGE 1)	15 days	2 days	Sat 1/4/17	Sat 15/4/17	-64 days	0%	46,81FS+13 days,79,82FS-45 days
85	BAY PW8	70 days	7 days	Sun 16/4/17	Sat 24/6/17	-64 days	0%	84
86	BAY PW9	70 days	7 days	Sun 25/6/17	Sat 2/9/17	-64 days	0%	85
87	TTA ENABLING WORKS (STAGE 2)	21 days	3 days	Sun 3/9/17	Sat 23/9/17	-64 days	0%	86
88	BAY PW10 WITH PUMP HOUSE	90 days	7 days	Sun 24/9/17	Fri 22/12/17	-64 days	0%	87
89	BAY PW11	70 days	7 days	Sat 23/12/17	Fri 2/3/18	-64 days	0%	88
90	**SOUTHERN RAMP (7 BAYS) CONSTRUCTION**	**200 days**		**Sun 24/9/17**	**Wed 11/4/18**	**45 days**	**0%**	
91	BAY PW6&7	50 days	5 days	Sun 24/9/17	Sun 12/11/17	45 days	0%	87
92	BAY PW4&5	50 days	5 days	Mon 13/11/17	Mon 1/1/18	45 days	0%	91
93	BAY PW2&3	40 days	4 days	Tue 2/1/18	Sat 10/2/18	45 days	0%	92
94	BAY PW1 AND ASSOCIATED WORKS	60 days	6 days	Sun 11/2/18	Wed 11/4/18	45 days	0%	93
95	**NORTHERN RAMP (5 BAYS) CONSTRUCTION**	**149 days**		**Sat 3/3/18**	**Sun 29/7/18**	**-64 days**	**0%**	
96	BAY PW12 & 13	50 days	5 days	Sat 3/3/18	Sat 21/4/18	-64 days	0%	89
97	BAY PW14 & 15	50 days	5 days	Sun 22/4/18	Sun 10/6/18	-64 days	0%	96
98	BAY PW16 AND ASSOCIATED WORKS	49 days	5 days	Mon 11/6/18	Sun 29/7/18	-64 days	0%	97
99	FNISHING WORKS AND E&M WORKS	134 days	10 days	Mon 30/7/18	Mon 10/12/18	-64 days	0%	98,94,89
100	EARTHWORKS AND DRAINAGE WORKS	384 days	30 days	Fri 7/4/17	Wed 25/4/18	165 days	0%	79,81,82
101	ROAD WORKS	84 days	7 days	Tue 11/12/18	Mon 4/3/19	-64 days	0%	99,100
102	RESTING STATION R6	90 days	7 days	Thu 12/4/18	Tue 10/7/18	173 days	0%	94
103	COMPLETION OF PORTION B	0 days		Mon 4/3/19	Mon 4/3/19	-64 days	0%	101,102
104	**PORTION C (MP 2+950 - MP 4+010)**	**984 days**		**Sun 28/8/16**	**Thu 9/5/19**	**-130 days**	**25%**	
105	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days
106	INITIAL SURVEY	54 days	4 days	Mon 29/8/16	Fri 21/10/16	0 days	100%	105SS
107	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	0 days	100%	106
108	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 5/1/17	Sun 5/3/17	35 days	90%	107,106
109	UTILITIES DIVERSION WORKS (CLP & PCCW)	60 days	0 day	Thu 5/1/17	Sun 5/3/17	42 days	80%	107
110	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS)	60 days	5 days	Sat 22/10/16	Tue 20/12/16	0 days	100%	106
111	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	3 days	Wed 21/12/16	Tue 10/1/17	0 days	100%	110
112	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Wed 11/1/17	Tue 24/1/17	0 days	100%	111
113	RETAINING WALL - RW 11A (50M) (CSD)	50 days	5 days	Wed 30/5/18	Wed 18/7/18	-130 days	0%	115,114
114	RETAINING WALL - RW 11B : BAY1 - BAY 6 (60M)	55 days	5 days	Fri 9/2/18	Wed 4/4/18	-130 days	0%	122,52FS+80 days
115	RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M)	55 days	5 days	Thu 5/4/18	Tue 29/5/18	-130 days	0%	114
116	RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M)	70 days	7 days	Wed 25/1/17	Tue 4/4/17	-130 days	50%	109SS+7 days,108FS-40 days,110,112,111
117	RETAINING WALL - RW 11C : BAY 1 - BAY 7, STAIRCASE S1 (70M)	60 days	5 days	Wed 5/4/17	Sat 3/6/17	-80 days	20%	116,109



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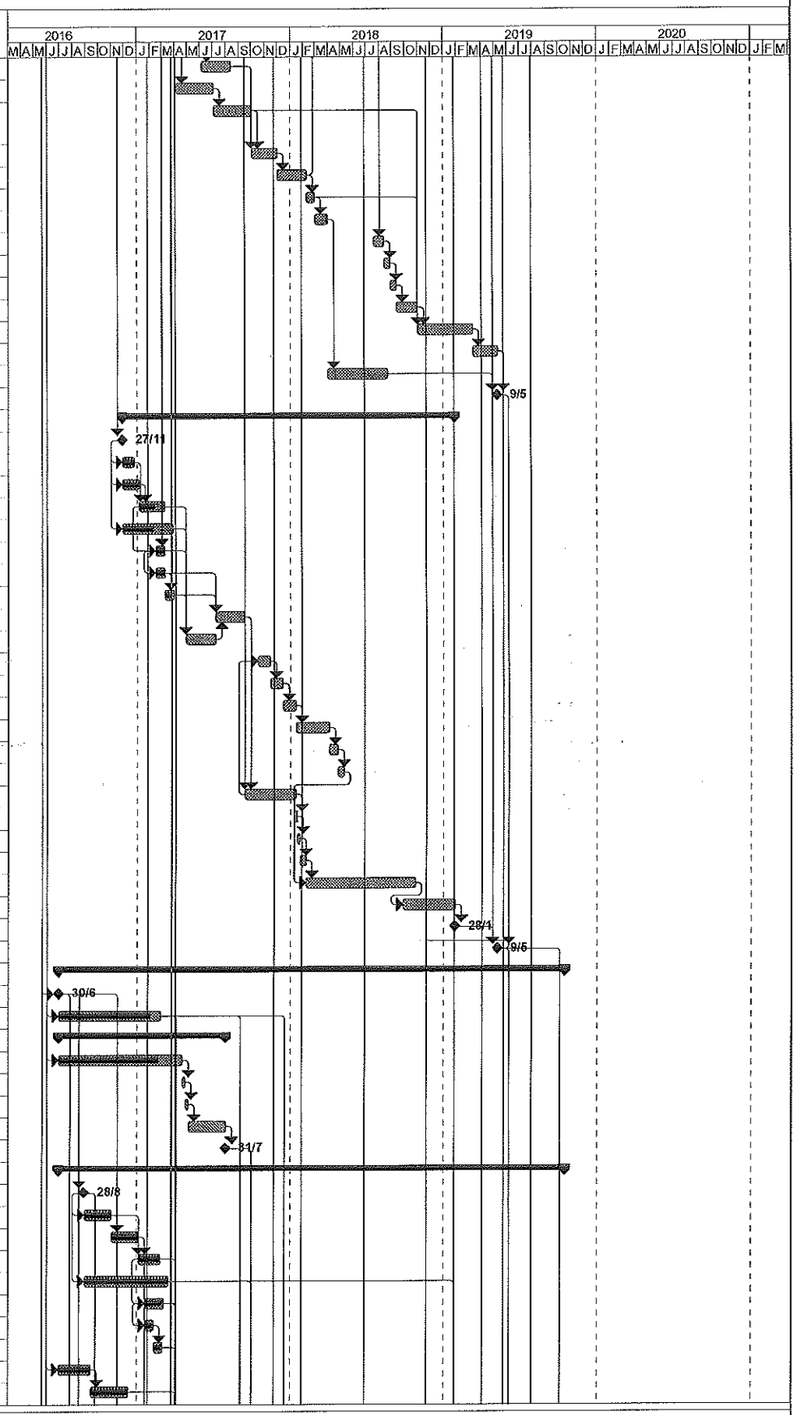
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
118	RETAINING WALL - RW 11C : BAY 15 - BAY 21, STAIRCASE S2 (70M)	70 days	7 days	Sun 4/6/17	Sat 12/8/17	-80 days	0%	117
119	RETAINING WALL - RW 12 : BAY 1 - BAY 8, STAIRCASE S3 (80M)	90 days	7 days	Wed 5/4/17	Mon 3/7/17	-130 days	0%	116
120	RETAINING WALL - RW 12 : BAY 9 - BAY 16, RAMP AND STAIR - CSR1 (80M)	90 days	7 days	Tue 4/7/17	Sun 1/10/17	-130 days	0%	119
121	RETAINING WALL - RW 13 (40M)	60 days	5 days	Mon 2/10/17	Thu 30/11/17	-130 days	0%	120,118
122	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	70 days	7 days	Fri 1/12/17	Thu 8/2/18	-130 days	0%	121
123	RETAINING WALL - RW 15A (7.5M)	20 days	2 days	Fri 9/2/18	Wed 28/2/18	115 days	0%	122
124	RAMP NEAR YAU POK ROAD	30 days	2 days	Thu 1/3/18	Fri 30/3/18	131 days	0%	123
125	NCE EFFECT ON ADDED WATER STOP	25 days		Thu 19/7/18	Sun 12/8/18	-130 days	0%	113
126	NCE EFFECT ON REVSIED BASE SLAB DETAILS ON RW11C AND RW12	15 days	0 day	Mon 13/8/18	Mon 27/8/18	-130 days	0%	125
127	NCE EFFECT ON ADDED SUB SOIL DRAIN	15 days	0 day	Tue 28/8/18	Tue 11/9/18	-130 days	0%	126
128	NCE EFFECT ON ADDED CHAMFER	50 days	0 day	Wed 12/9/18	Wed 31/10/18	-130 days	0%	127
129	EARTHWORKS AND DRAINAGE WORKS	130 days	10 days	Thu 1/11/18	Sun 10/3/19	-130 days	0%	120,123,128
130	ROAD WORKS	60 days	5 days	Mon 11/3/19	Thu 9/5/19	-130 days	0%	129
131	RESTING STATION R7	144 days	10 days	Sat 31/3/18	Tue 21/8/18	131 days	0%	124
132	COMPLETION OF PORTION C	0 days		Thu 9/5/19	Thu 9/5/19	-130 days	0%	130,131
133	**PORTION D (MP 4+010 - MP 5+280)**	**792 days**		**Sun 27/11/16**	**Mon 28/1/19**	**-29 days**	**20%**	
134	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days
135	INITIAL SURVEY	28 days	3 days	Mon 28/11/16	Sun 25/12/16	0 days	100%	134SS
136	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	134SS
137	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Sat 7/1/17	Tue 7/3/17	22 days	60%	136,135
138	UTILITIES DIVERSION WORKS (CLP & HCL)	120 days	0 day	Mon 28/11/16	Mon 27/3/17	2 days	60%	134SS
139	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	137SS+14 days,46
140	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	139SS
141	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Wed 8/3/17	Tue 28/3/17	-29 days	80%	140
142	RETAINING WALL - RW 15B (40M)	70 days	7 days	Fri 7/7/17	Thu 14/9/17	-29 days	0%	143,141,140
143	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	70 days	7 days	Fri 28/4/17	Thu 6/7/17	-29 days	0%	137,138,139,141FS+30 days
144	STREAM DECKING D1	30 days	3 days	Sun 15/10/17	Mon 13/11/17	-25 days	0%	150SS+30 days
145	STREAM DECKING D2	30 days	3 days	Tue 14/11/17	Wed 13/12/17	-25 days	0%	144
146	STREAM DECKING D3	30 days	3 days	Thu 14/12/17	Fri 12/1/18	-25 days	0%	145
147	RAMP PR1 CONSTRUCTION	80 days	7 days	Sat 13/1/18	Mon 2/4/18	-25 days	0%	146
148	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Tue 3/4/18	Mon 23/4/18	-25 days	0%	147
149	DEMOLITION OF EXISTING STRUCTURE	14 days	2 days	Tue 24/4/18	Mon 7/5/18	-25 days	0%	148
150	RW16A (80M) (CSD)	120 days	10 days	Fri 15/9/17	Fri 12/1/18	-29 days	0%	142,80
151	NCE EFFECT ON ADDED SUB SOIL DRAIN	3 days	0 day	Sat 13/1/18	Mon 15/1/18	-29 days	0%	150
152	NCE EFFECT ON ADDED WATER STOP	7 days		Tue 16/1/18	Mon 22/1/18	-29 days	0%	151
153	NCE EFFECT ON ADDED CHAMFER	14 days		Tue 23/1/18	Mon 5/2/18	-29 days	0%	152
154	EARTHWORKS AND DRAINAGE WORKS	262 days	30 days	Tue 6/2/18	Thu 25/10/18	-29 days	0%	149FS-95 days,153
155	ROAD WORKS	125 days	14 days	Wed 26/9/18	Mon 28/1/19	-29 days	0%	154FS-30 days
156	COMPLETION OF PORTION D	0 days		Mon 28/1/19	Mon 28/1/19	-29 days	0%	155
157	COMPLETION OF SECTION W1	0 days		Thu 9/5/19	Thu 9/5/19	-130 days	0%	132,156,74,103
158	**SECTION W2 (PORTION E, F, G, H, I & N)**	**1204 days**	**days**	**Thu 30/6/16**	**Wed 16/10/19**	**-107 days**	**35%**	
159	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS
160	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W2	240 days	14 days	Thu 30/6/16	Fri 24/2/17	-68 days	90%	159SS
161	**CONTRACTOR DESIGN FOR RETAINING WALL**	**397 days**		**Thu 30/6/16**	**Mon 31/7/17**	**0 days**	**59%**	
162	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	293 days		Thu 30/6/16	Tue 18/4/17	0 days	80%	159SS
163	REVIEW AND APPROVED BY SUPERVISOR	7 days		Wed 19/4/17	Tue 25/4/17	0 days	0%	162
164	REVIEW AND APPROVED BY PM	7 days		Wed 26/4/17	Tue 2/5/17	0 days	0%	163
165	REVIEW AND APPROVED BY GEO/HYD	90 days		Wed 3/5/17	Mon 31/7/17	0 days	0%	164
166	COMMENCEMENT OF SITE WORK	0 days		Mon 31/7/17	Mon 31/7/17	0 days	0%	165
167	**PORTION E (MP 5+280 - MP 6+530)**	**1204 days**	**days**	**Thu 30/6/16**	**Wed 16/10/19**	**-107 days**	**28%**	
168	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	159FS+60 days
169	INITIAL SURVEY	65 days	5 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	168SS
170	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	169
171	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	50 days	5 days	Fri 6/1/17	Fri 24/2/17	0 days	100%	170,169
172	UTILITIES DIVERSION WORKS (GAS MAIN, CLP)	200 days	0 day	Mon 29/8/16	Thu 16/3/17	0 days	100%	168SS
173	GROUND INVESTIGATION WORKS (9 NOS. BOREHOLE & TRIAL PITS)	45 days	4 days	Fri 20/1/17	Sun 5/3/17	-107 days	89%	171SS+14 days
174	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Fri 20/1/17	Thu 9/2/17	16.8 days	80%	173SS
175	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Fri 10/2/17	Thu 2/3/17	-74 days	80%	174
176	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	0 days	100%	2SS
177	TTM APPROVAL BY RSS/TMLG	90 days	7 days	Wed 14/9/16	Mon 12/12/16	0 days	100%	176



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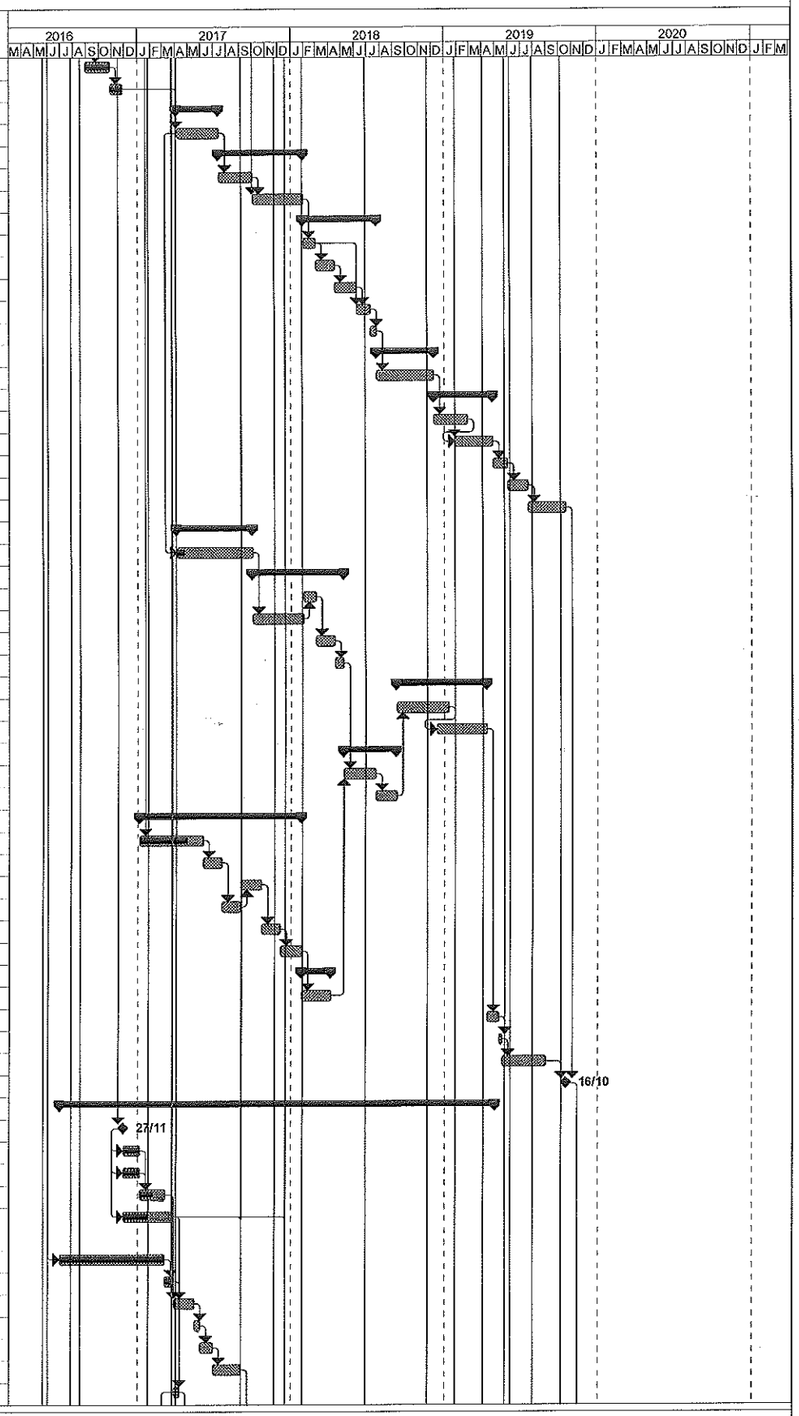
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
178	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	168
179	APPROVAL OF TDMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	0 days	100%	178
180	**MP 5+465 - MP 5+515**	**100 days**		**Wed 5/4/17**	**Thu 13/7/17**	**-107 days**	**0%**	
181	RETAINING WALL - RW D02 & D04 (80M)	100 days	7 days	Wed 5/4/17	Thu 13/7/17	-107 days	0%	171,177,179,173FS+30 days,175,160
182	**MP 5+515 - MP 5+595**	**200 days**		**Fri 14/7/17**	**Mon 29/1/18**	**-107 days**	**0%**	
183	RETAINING WALL - RW D05 & D06 (50M)	80 days	7 days	Fri 14/7/17	Sun 1/10/17	-107 days	0%	181
184	RETAINING WALL - RW D07 (70M) (CSD)	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-107 days	0%	183,172,166FS-45 days
185	**MP 5+280 - MP 6+020**	**175 days**		**Tue 30/1/18**	**Mon 23/7/18**	**-107 days**	**0%**	
186	RETAINING WALL - RW D03 (11M)	30 days	3 days	Tue 30/1/18	Wed 28/2/18	-107 days	0%	184
187	BOX CULVERT D4	45 days	4 days	Thu 1/3/18	Sat 14/4/18	-107 days	0%	186
188	EARTHWORKS AND DRAINAGE WORKS	53 days	5 days	Sun 15/4/18	Wed 6/6/18	-107 days	0%	187
189	ROAD WORKS FOR REALIGNMENT	32 days	3 days	Thu 7/6/18	Sun 8/7/18	-107 days	0%	188,186
190	REALIGNMENT SAN TAM ROAD	15 days	2 days	Mon 9/7/18	Mon 23/7/18	-107 days	0%	189
191	**MP 5+900 - MP 6+020**	**136 days**		**Tue 24/7/18**	**Thu 6/12/18**	**-107 days**	**0%**	
192	RETAINING WALL - RW D15 (113M) (CSD)	136 days	10 days	Tue 24/7/18	Thu 6/12/18	-107 days	0%	190
193	**MP 6+ 595 - MP 5+900**	**140 days**		**Fri 7/12/18**	**Thu 25/4/19**	**-107 days**	**0%**	
194	RETAINING WALL - RW D10 (50M) (CSD)	80 days	7 days	Fri 7/12/18	Sun 24/2/19	-107 days	0%	192
195	RETAINING WALL - RW D08 (66M) (CSD)	90 days	8 days	Sat 26/1/19	Thu 25/4/19	-107 days	0%	194FS-30 days,172
196	NCE EFFECT ON ADDED WATER STOP	35 days		Fri 26/4/19	Thu 30/5/19	-107 days	0%	195
197	NCE EFFECT ON ADDED CHAMFER	49 days		Fri 31/5/19	Thu 18/7/19	-107 days	0%	196
198	REMAINING EARTHWORKS AND ROAD WORKS	90 days	8 days	Fri 19/7/19	Wed 16/10/19	-107 days	0%	197
199	**MP 6+420 - MP 6+530**	**180 days**		**Wed 5/4/17**	**Sun 1/10/17**	**0 days**	**10%**	
200	RETAINING WALL - RW D25 & D26 (100M)	180 days	14 days	Wed 5/4/17	Sun 1/10/17	-57 days	10%	181SS
201	**MP 6+020 - MP 6+530**	**216 days**		**Mon 2/10/17**	**Sat 5/5/18**	**-57 days**	**0%**	
202	BOX CULVERT D7	30 days	3 days	Tue 30/1/18	Wed 28/2/18	-57 days	0%	203
203	EARTHWORKS AND DRAINAGE WORKS	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-57 days	0%	200
204	ROAD WORKS FOR REALIGNMENT	45 days	4 days	Thu 1/3/18	Sat 14/4/18	-57 days	0%	202
205	REALIGNMENT SHEK WU WAI ROAD	21 days	2 days	Sun 15/4/18	Sat 5/5/18	-57 days	0%	204
206	**MP 6+020 - MP 6+160**	**215 days**		**Sun 9/9/18**	**Thu 11/4/19**	**-57 days**	**0%**	
207	RETAINING WALL - RW D18 (98M)	125 days	10 days	Sun 9/9/18	Fri 11/1/19	-57 days	0%	211
208	RETAINING WALL - RW D17 (65M)	120 days	10 days	Thu 13/12/18	Thu 11/4/19	-57 days	0%	207FS-30 days
209	**MP 6+160 - MP 6+230**	**126 days**		**Sun 6/5/18**	**Sat 8/9/18**	**-57 days**	**0%**	
210	RETAINING WALL - RW D19A, B (53M)	76 days	7 days	Sun 6/5/18	Fri 20/7/18	-57 days	0%	205,220FS+7 days
211	RETAINING WALL - RW D20 (U) (22M)	50 days	5 days	Sat 21/7/18	Sat 8/9/18	-57 days	0%	210
212	**MP 6+230 - MP 6+330**	**385 days**		**Fri 6/1/17**	**Thu 25/1/18**	**-34 days**	**29%**	
213	RECTANGULAR CHANNEL	150 days	10 days	Fri 6/1/17	Sun 4/6/17	-34 days	75%	170
214	BOX CULVERT D5	45 days	4 days	Mon 5/6/17	Wed 19/7/17	-34 days	0%	213
215	RETAINING WALL - RW D21(U) (26M)	50 days	4 days	Sun 3/9/17	Sun 22/10/17	-34 days	0%	216
216	BOX CULVERT D6	45 days	4 days	Thu 20/7/17	Sat 2/9/17	-34 days	0%	214
217	RETAINING WALL - RW D22 (U) (26M)	45 days	4 days	Mon 23/10/17	Wed 6/12/17	-34 days	0%	215
218	RETAINING WALL - RW D23 (U) (21M)	50 days	4 days	Thu 7/12/17	Thu 25/1/18	-34 days	0%	217
219	**MP 6+372 - MP 6+410**	**70 days**		**Fri 26/1/18**	**Thu 5/4/18**	**-34 days**	**0%**	
220	RETAINING WALL - RW D24 (44M)	70 days	7 days	Fri 26/1/18	Thu 5/4/18	-34 days	0%	218
221	NCE EFFECT ON ADDED WATER STOP	27 days		Fri 12/4/19	Wed 8/5/19	-57 days	0%	208
222	NCE EFFECT ON ADDED CHAMFER	7 days		Thu 9/5/19	Wed 15/5/19	-57 days	0%	221
223	REMAINING EARTHWORKS AND ROAD WORKS	104 days	10 days	Thu 16/5/19	Tue 27/8/19	-57 days	0%	222
224	COMPLETION OF PORTION E	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	223,198
225	**PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)**	**1035 days**		**Thu 30/6/16**	**Tue 30/4/19**	**62 days**	**28%**	
226	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	159FS+151 days
227	INITIAL SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	226SS
228	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	226SS
229	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Sat 7/1/17	Tue 7/3/17	27 days	50%	228,227
230	UTILITIES DIVERSION WORKS (CLP, CATV, NTT, TOWN GAS, HKBB & TGT)	120 days	0 day	Mon 28/11/16	Mon 27/3/17	14 days	50%	226SS
231	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	250 days		Thu 30/6/16	Mon 6/3/17	0 days	100%	2SS
232	ARRANGEMENT OF SITE INVESTIGATION WORKS	21 days	2 days	Tue 7/3/17	Mon 27/3/17	0 days	100%	231
233	SITE INVESTIGATION WORKS AND TESTING	49 days	3 days	Tue 28/3/17	Mon 15/5/17	-105 days	14%	232,229
234	INSTRUCTION FOR REMEDIAL WORK FOR CONTAMINATED SOIL	14 days	2 days	Tue 16/5/17	Mon 29/5/17	-105 days	0%	233
235	ARRANGEMENT OF REMEDIAL WORKS	30 days	3 days	Tue 30/5/17	Wed 28/6/17	-105 days	0%	234
236	IMPLEMENTATION OF REMEMDIAL WORKS	68 days	5 days	Thu 29/6/17	Mon 4/9/17	-105 days	0%	235
237	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Tue 28/3/17	Mon 10/4/17	14 days	0%	230



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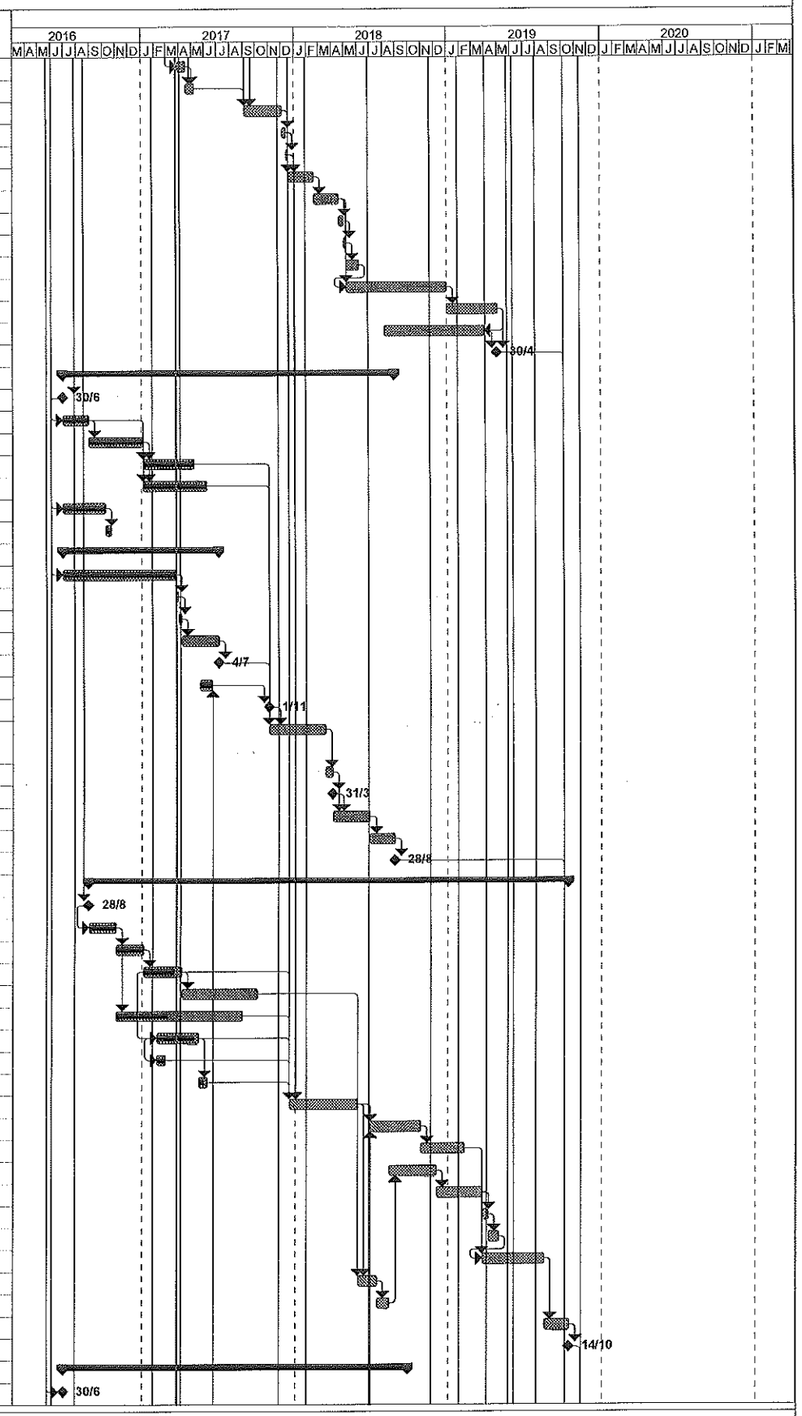
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
238	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 28/3/17	Mon 17/4/17	14 days	0%	237SS
239	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 18/4/17	Mon 8/5/17	14 days	0%	237,238
240	RW 42 (60M)	90 days	7 days	Tue 5/9/17	Sun 3/12/17	-105 days	0%	230,239,236,160
241	NCE EFFECT ON ADDED WATER STOP (RW42 ONLY)	10 days		Mon 4/12/17	Wed 13/12/17	-105 days	0%	240
242	NCE EFFECT ON ADDED CHAMFER (RW42 ONLY)	5 days		Thu 14/12/17	Mon 18/12/17	-105 days	0%	241
243	RW 43 (50M)	60 days	5 days	Tue 19/12/17	Fri 16/2/18	62 days	0%	230,242
244	RW 44 (36M U)	60 days	5 days	Sat 17/2/18	Tue 17/4/18	62 days	0%	243
245	NCE EFFECT ON ADDED WATER STOP (RW43, 44 ONLY)	12 days		Wed 18/4/18	Sun 29/4/18	62 days	0%	244
246	NCE EFFECT ON ADDED CHAMFER (RW43, 44 ONLY)	6 days		Mon 30/4/18	Sat 5/5/18	62 days	0%	245
247	RAMP PR3 CONSTRUCTION	30 days	3 days	Sun 6/5/18	Mon 4/6/18	62 days	0%	246
248	EARTHWORKS AND DRAINAGE WORKS	240 days	21 days	Sun 6/5/18	Mon 31/12/18	62 days	0%	244,247FS-30 days
249	ROAD WORKS (1.3 KM)	120 days	10 days	Tue 1/1/19	Tue 30/4/19	62 days	0%	248
250	RESTING STATION R8	240 days	21 days	Sat 4/8/18	Sun 31/3/19	92 days	0%	249FF-30 days
251	COMPLETION OF PORTION F	0 days		Tue 30/4/19	Tue 30/4/19	62 days	0%	249,250
252	**PORTION G - (BRIDGE C : CSD) CH ST 1+210 - CH ST 1+310)**	**790 days**		**Thu 30/6/16**	**Tue 28/8/18**	**307 days**	**68%**	
253	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	159
254	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	253SS
255	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	254
256	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	0 days	100%	255,254
257	UTILITIES DIVERSION WORKS (HKB & TGT)	150 days	0 day	Fri 6/1/17	Sun 4/6/17	0 days	100%	254,255
258	PREPARATION OF TDMP FOR PRE-DRILLING WORKS	100 days	10 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	253SS
259	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sat 8/10/16	Fri 21/10/16	0 days	100%	258
260	**CONTRACTOR DESIGN FOR FOUNDATION**	**370 days**		**Thu 30/6/16**	**Tue 4/7/17**	**426 days**	**72%**	
261	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	266 days		Thu 30/6/16	Wed 22/3/17	0 days	100%	253SS
262	REVIEW AND APPROVED BY SUPERVISOR	7 days		Thu 23/3/17	Wed 29/3/17	426 days	0%	261
263	REVIEW AND APPROVED BY PM	7 days		Thu 30/3/17	Wed 5/4/17	426 days	0%	262
264	REVIEW AND APPROVED BY DSD/HYD	90 days		Thu 6/4/17	Tue 4/7/17	426 days	0%	263
265	COMMENCEMENT OF SITE WORKS	0 days		Tue 4/7/17	Tue 4/7/17	426 days	0%	264
266	PREDRILLING WORKS FOR PILES	30 days	3 days	Sat 20/5/17	Sun 18/6/17	0 days	100%	365
267	STARTING DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	307 days	0%	266
268	BOX CULVERT CONSTRUCTION (3 CELLS) WITH DRAINAGE DIVERSION WORKS	135 days	10 days	Wed 1/11/17	Thu 15/3/18	307 days	0%	267,256,257,265
269	REMOVAL OF DRAINAGE DIVERSION WORKS	16 days	2 days	Fri 16/3/18	Sat 31/3/18	307 days	0%	268
270	END DATE OF DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	307 days	0%	269
271	BRIDGE ASSOCIATED WORKS, WATERMAIN WORKS	90 days	10 days	Sun 1/4/18	Fri 29/6/18	307 days	0%	269,270
272	ROAD WORKS	60 days	10 days	Sat 30/6/18	Tue 28/8/18	307 days	0%	271
273	COMPLETION OF PORTION G	0 days		Tue 28/8/18	Tue 28/8/18	307 days	0%	272
274	**PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)**	**1142 days**		**Sun 28/8/16**	**Mon 14/10/19**	**-105 days**	**25%**	
275	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	159FS+60 days
276	INITIAL SURVEY	65 days	4 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	275SS
277	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	276
278	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Fri 6/1/17	Wed 5/4/17	135 days	80%	277
279	APPLIED TTA APPROVAL FOR REALIGNMENT	180 days	14 days	Thu 6/4/17	Mon 2/10/17	135 days	0%	278
280	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	300 days	0 day	Wed 2/11/16	Mon 28/8/17	7 days	40%	276
281	GROUND INVESTIGATION WORKS (6 NOS. BOREHOLE & TRIAL PITS)	100 days	4 days	Sun 5/2/17	Mon 15/5/17	103.6 days	88%	278SS+30 days
282	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Sun 5/2/17	Sat 25/2/17	0 days	100%	281SS
283	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 16/5/17	Mon 5/6/17	91 days	60%	281
284	RW 49 (130M)	163 days	12 days	Tue 19/12/17	Wed 30/5/18	-105 days	0%	280,278,281,283,282,160,242
285	RW 45A (73M)	120 days	10 days	Sat 30/6/18	Sat 27/10/18	-63 days	0%	284,304FS+60 days
286	RW 45B (58M)	103 days	10 days	Sun 28/10/18	Thu 7/2/19	-63 days	0%	285
287	DW1 & DW1A (130M)	112 days	10 days	Tue 14/8/18	Mon 3/12/18	-105 days	0%	293
288	DW2 (92M)	110 days	10 days	Tue 4/12/18	Sat 23/3/19	-105 days	0%	287
289	NCE EFFECT ON ADDED WATER STOP (DW1 & DW2)	13 days		Sun 24/3/19	Fri 5/4/19	-105 days	0%	288
290	NCE EFFECT ON ADDED CHAMFER (DW1 & DW2)	25 days		Sat 6/4/19	Tue 30/4/19	-105 days	0%	289
291	EARTHWORKS AND DRAINAGE WORKS	147 days	14 days	Fri 22/3/19	Thu 15/8/19	-105 days	0%	286,290FS-40 days
292	PART OF ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY	45 days	4 days	Thu 31/5/18	Sat 14/7/18	-105 days	0%	284,279
293	REALIGNMENT CARRIAGEWAY	30 days	3 days	Sun 15/7/18	Mon 13/8/18	-105 days	0%	292
294	ROAD WORKS	60 days	5 days	Fri 16/8/19	Mon 14/10/19	-105 days	0%	291
295	COMPLETION OF PORTION H	0 days		Mon 14/10/19	Mon 14/10/19	-105 days	0%	294
296	**PORTION I (CH ST 1.625 - CH ST 1.70)**	**820 days**		**Thu 30/6/16**	**Thu 27/9/18**	**277 days**	**49%**	
297	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS



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UPDATE ACCEPTED PROGRAMME

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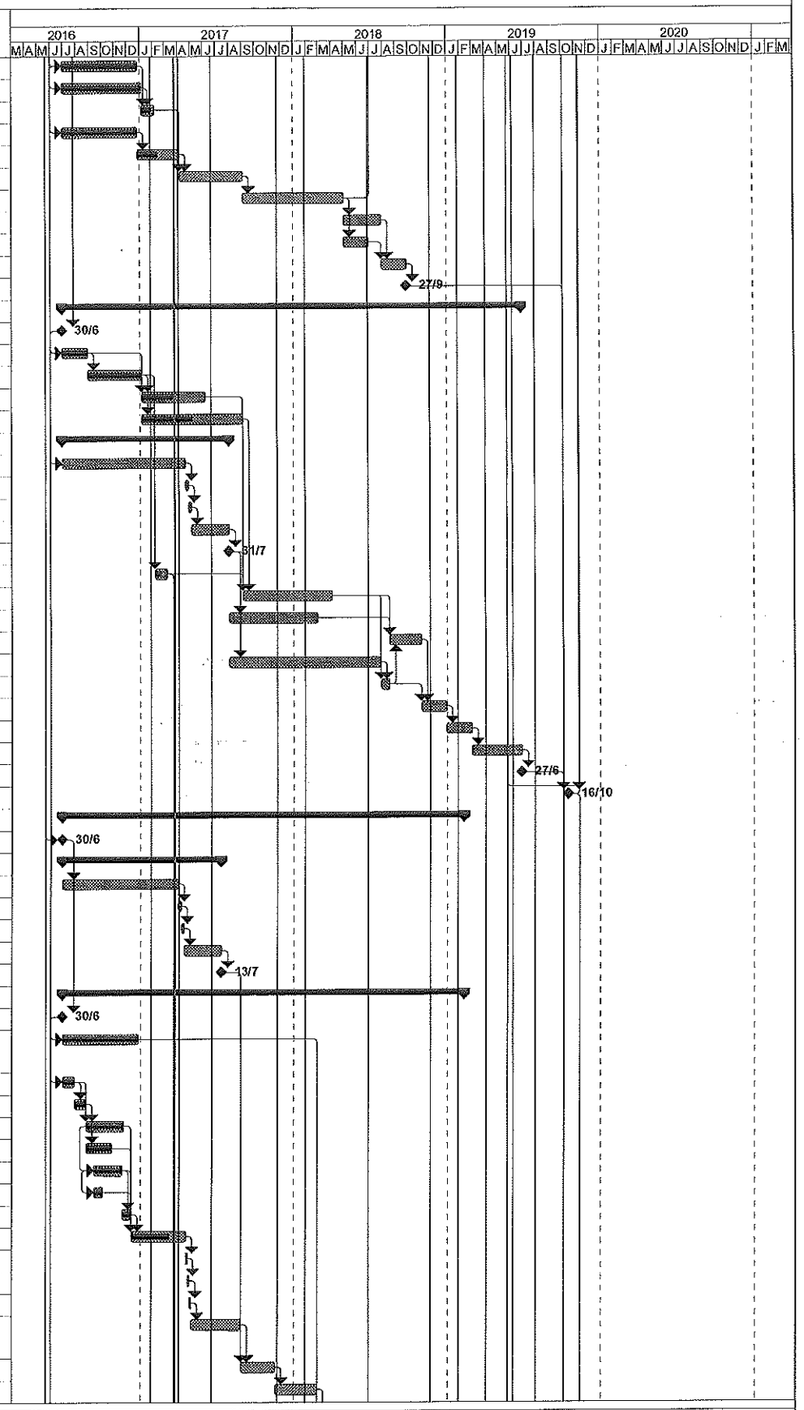
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
298	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	297SS
299	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	0 days	100%	298SS
300	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	2 days	Fri 6/1/17	Sat 4/2/17	-3 days	80%	299,298
301	TTM PREPARATION	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS
302	TTM APPROVAL BY RSS/TMLG	100 days	5 days	Tue 27/12/16	Wed 5/4/17	-63 days	48%	301
303	SUBWAY D WITH PUMP ROOM CONSTRUCTION (3BAYS)	150 days	14 days	Thu 6/4/17	Sat 2/9/17	-63 days	0%	302,300
304	RAMP (14 BAYS)	240 days	21 days	Sun 3/9/17	Mon 30/4/18	-63 days	0%	303
305	FINISHING WORKS AND E&M WORKS	90 days	7 days	Tue 1/5/18	Sun 29/7/18	277 days	0%	304
306	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Tue 1/5/18	Fri 29/6/18	307 days	0%	304
307	ROAD WORKS	60 days	5 days	Mon 30/7/18	Thu 27/9/18	277 days	0%	306,305
308	COMPLETION OF PORTION I	0 days		Thu 27/9/18	Thu 27/9/18	277 days	0%	307
309	**PORTION N (BRIDGE B : CSD) CH ST 0.150 - CH ST 1.097)**	**1093 days**		**Thu 30/6/16**	**Thu 27/6/19**	**4 days**	**19%**	
310	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	159
311	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	310SS
312	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	311
313	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	150 days	5 days	Fri 6/1/17	Sun 4/6/17	211 days	50%	312,311
314	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	240 days	10 days	Fri 6/1/17	Sat 2/9/17	121 days	50%	312
315	**CONTRACTOR DESIGN FOR FOUNDATION**	**397 days**		**Thu 30/6/16**	**Mon 31/7/17**	**4 days**	**0%**	
316	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	293 days		Thu 30/6/16	Tue 18/4/17	4 days	0%	310SS
317	REVIEW AND APPROVED BY SUPERVISOR	7 days		Wed 19/4/17	Tue 25/4/17	4 days	0%	316
318	REVIEW AND APPROVED BY PM	7 days		Wed 26/4/17	Tue 2/5/17	4 days	0%	317
319	REVIEW AND APPROVED BY DSD/HYD	90 days		Wed 3/5/17	Mon 31/7/17	4 days	0%	318
320	COMMENCEMENT OF SITE WORKS	0 days		Mon 31/7/17	Mon 31/7/17	4 days	0%	319
321	PRE-DRILLING WORKS FOR PILES	30 days	3 days	Sun 5/2/17	Mon 6/3/17	36 days	50%	312FS+30 days
322	ABUTMENT CONSTRUCTION	210 days	7 days	Sun 3/9/17	Sat 31/3/18	121 days	0%	320,321,313,314
323	OFFSITE FABRICATION OF BRIDGE MEMBERS	210 days	10 days	Tue 1/8/17	Mon 26/2/18	175 days	0%	320
324	STEEL TRUSS AND DESK CONSTRUCTION	75 days	7 days	Fri 17/8/18	Tue 30/10/18	4 days	0%	323,322,326
325	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	10 days	Tue 1/8/17	Thu 26/7/18	4 days	0%	320
326	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Fri 27/7/18	Thu 16/8/18	4 days	0%	325,322
327	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Wed 31/10/18	Sat 29/12/18	4 days	0%	324,326
328	ROAD WORKS	60 days	5 days	Sun 30/12/18	Wed 27/2/19	4 days	0%	327
329	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	120 days	10 days	Thu 28/2/19	Thu 27/6/19	4 days	0%	328
330	COMPLETION OF PORTION N	0 days		Thu 27/6/19	Thu 27/6/19	4 days	0%	329
331	COMPLETION OF SECTION W2	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	224,251,273,295,308,330
332	**SECTION W3**	**956 days**		**Thu 30/6/16**	**Sun 10/2/19**	**-42 days**	**33%**	
333	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS
334	**CONTRACTOR DESIGN FOR RETAINING WALL**	**379 days**		**Thu 30/6/16**	**Thu 13/7/17**	**4 days**	**0%**	
335	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	275 days		Thu 30/6/16	Fri 31/3/17	4 days	0%	333
336	REVIEW AND APPROVED BY SUPERVISOR	7 days		Sat 1/4/17	Fri 7/4/17	4 days	0%	335
337	REVIEW AND APPROVED BY PM	7 days		Sat 8/4/17	Fri 14/4/17	4 days	0%	336
338	REVIEW AND APPROVED BY GEO/HYD	90 days		Sat 15/4/17	Thu 13/7/17	4 days	0%	337
339	COMMENCEMENT OF SITE WORK	0 days		Thu 13/7/17	Thu 13/7/17	4 days	0%	338
340	**PORTION K (CH KW 1+360 - CH KW 2+070)**	**956 days**		**Thu 30/6/16**	**Sun 10/2/19**	**-42 days**	**42%**	
341	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	333
342	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	341SS
343	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	341SS
344	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	0 days	100%	343
345	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	0 days	100%	344,343
346	UTILITIES DIVERSION WORKS (CLP, PCCW & FW MAINS)	60 days	0 day	Thu 25/8/16	Sun 23/10/16	0 days	100%	344
347	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS)	68 days	5 days	Mon 12/9/16	Fri 18/11/16	0 days	100%	345SS+18 days
348	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	0 days	100%	347SS
349	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Sat 19/11/16	Fri 9/12/16	0 days	100%	347
350	RW 29C (66M)	130 days	7 days	Sat 10/12/16	Tue 18/4/17	-42 days	70%	345,346,347,349,348
351	NCE EFFECT ON ADDED SUB SOIL DRAIN (RW29C ONLY)	3 days		Wed 19/4/17	Fri 21/4/17	-42 days	0%	350
352	NCE EFFECT ON ADDED CHAMFER (RW29C ONLY)	6 days		Sat 22/4/17	Thu 27/4/17	-42 days	0%	351
353	NCE EFFECT ON ADDED WATER STOP (RW29C ONLY)	3 days		Fri 28/4/17	Sun 30/4/17	-42 days	0%	352
354	EARTHWORKS AND DRAINAGE WORKS, KW1+360 - KW1+460; KW 1+600 - KW1+900 ; KW 1+2+140 - KW 2+450	120 days	21 days	Mon 1/5/17	Mon 28/8/17	-42 days	0%	353
355	RW 29B (50M) (CSD - FILL SLOPE)	80 days	7 days	Tue 29/8/17	Thu 16/11/17	-42 days	0%	339,354
356	RW 29A (90M) (CSD - FILL SLOPE)	100 days	7 days	Fri 17/11/17	Sat 24/2/18	-42 days	0%	355



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Milestone — External Tasks — Inactive Milestone — Duration-only — Start-only — Critical Split

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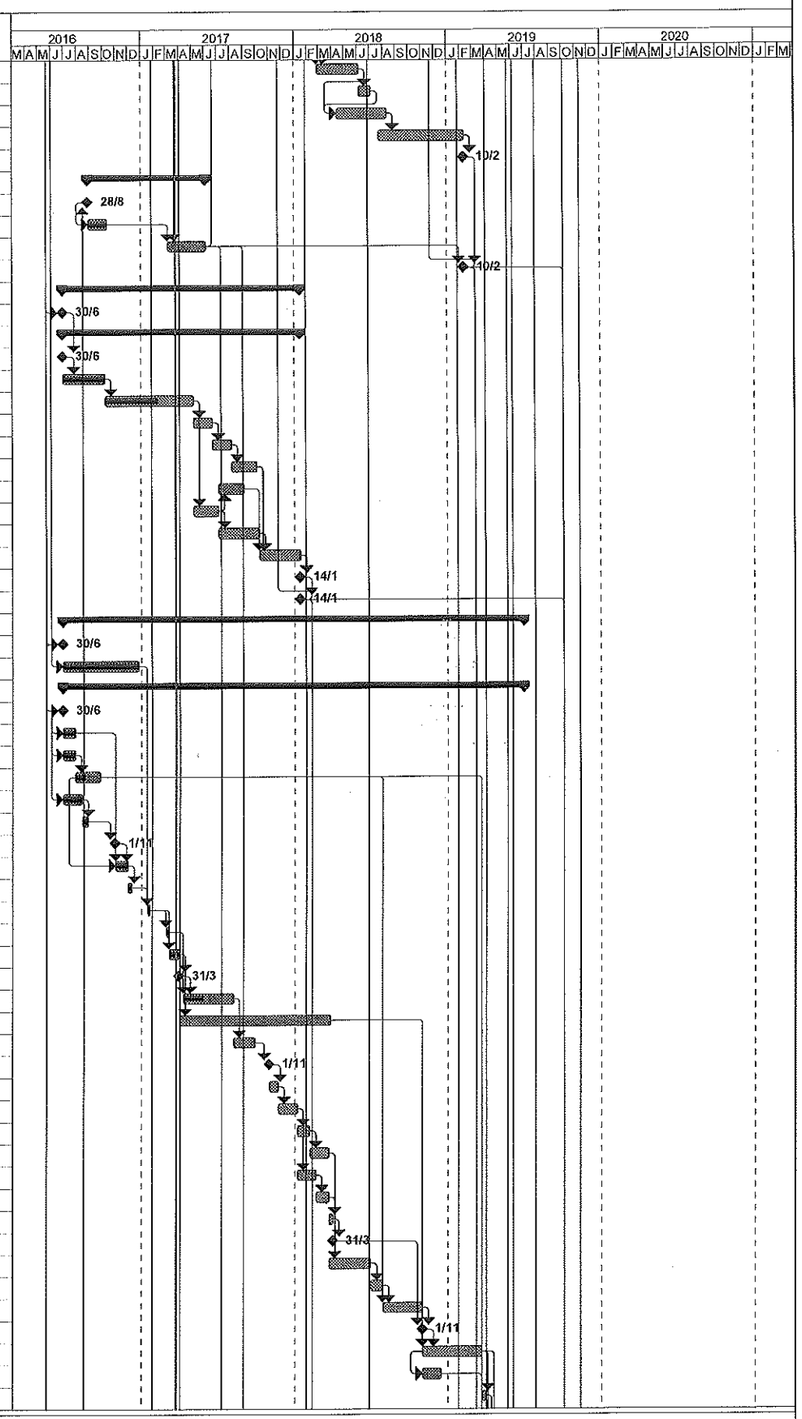
CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
357	RW 27 (90M) (CSD - FILL SLOPE)	100 days	7 days	Sun 25/2/18	Mon 4/6/18	-42 days	0%	356,342
358	STREAM DECKING D9	30 days	7 days	Tue 5/6/18	Wed 4/7/18	-35 days	0%	357
359	EARTHWORKS AND DRAINAGE WORKS	120 days	21 days	Fri 13/4/18	Fri 10/8/18	-42 days	0%	358FS-90 days,357FS-53 days
360	ROAD WORKS	204 days	21 days	Sun 22/7/18	Sun 10/2/19	-42 days	0%	359FS-20 days
361	COMPLETION OF PORTION K	0 days		Sun 10/2/19	Sun 10/2/19	-42 days	0%	360
362	**PORTION J1**	**280 days**		**Sun 28/8/16**	**Sun 4/6/17**	**36 days**	**33%**	
363	POSSESION OF SITE (J1)	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	439FS+60 days
364	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	0 days	100%	363SS
365	SITE INVESTIGATION	90 days	10 days	Tue 7/3/17	Sun 4/6/17	36 days	0%	321,364
366	COMPLETION OF SECTION W3	0 days		Sun 10/2/19	Sun 10/2/19	-42 days	0%	361,365
367	**SECTION W4 PUBLIC TOILET**	**564 days**		**Thu 30/6/16**	**Sun 14/1/18**	**-14 days**	**29%**	
368	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS
369	**PORTION L**	**564 days**		**Thu 30/6/16**	**Sun 14/1/18**	**-14 days**	**29%**	
370	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	368
371	DOCUMENT SUBMISSION	100 days	7 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	370
372	R.C. STRUCTURE	210 days	10 days	Sat 8/10/16	Fri 5/5/17	-14 days	60%	371
373	EQUILIZATION TANL	45 days	4 days	Sat 6/5/17	Mon 19/6/17	-8 days	0%	372
374	SLUDGE HOLDING TANK	45 days	4 days	Tue 20/6/17	Thu 3/8/17	-8 days	0%	373
375	BIO-TREATMENT FACILITY	60 days	5 days	Fri 4/8/17	Mon 2/10/17	-8 days	0%	374
376	STEEL HOLLOW SECTION AT ROOF	60 days	5 days	Wed 5/7/17	Sat 2/9/17	22 days	0%	377
377	INTERNAL FINISHES	60 days	5 days	Sat 6/5/17	Tue 4/7/17	-14 days	0%	372
378	E&M. WORKS AND PD INSTALLATION	96 days	7 days	Wed 5/7/17	Sun 8/10/17	-14 days	0%	377
379	EXTERNAL FINISHES AND SURROUNDING AREA	98 days	7 days	Mon 9/10/17	Sun 14/1/18	-14 days	0%	378,376,375
380	COMPLETION OF PORTION L	0 days		Sun 14/1/18	Sun 14/1/18	-14 days	0%	379
381	COMPLETION OF SECTION W4	0 days		Sun 14/1/18	Sun 14/1/18	-14 days	0%	380
382	**SECTION W5 (SS 0.0 - 270)**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**23%**	
383	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS
384	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS
385	**PORTION M (BRIDGE E)**	**1097 days**		**Thu 30/6/16**	**Mon 1/7/19**	**0 days**	**15%**	
386	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	383SS
387	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	386SS
388	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	386SS
389	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 28/7/16	Sun 25/9/16	672 days	40%	388
390	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	0 days	100%	386SS
391	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	0 days	100%	390
392	STARTING DATE OF 1ST DRY SEASON	0 days		Tue 1/11/16	Tue 1/11/16	0 days	100%	391
393	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	0 days	100%	392,387,389SS+10 days
394	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 7/12/16	0 days	100%	393
395	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	0 days	100%	394,384
396	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	0 days	100%	395
397	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	0 days	100%	395FS+7 days
398	END DATE OF 1ST DRY SEASON	0 days		Fri 31/3/17	Fri 31/3/17	92 days	0%	397
399	PREPARATION OF TDMP FOR PILING WORKS	120 days	7 days	Mon 10/4/17	Mon 7/8/17	35 days	40%	398,396
400	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	30 days	Sat 1/4/17	Mon 26/3/18	219 days	0%	397
401	APPROVAL OF TDMP BY SUPERVISOR/DSD	50 days	2 days	Tue 8/8/17	Tue 26/9/17	35 days	0%	399
402	STARTING DATE OF 2ND DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	401
403	TEMPORARY DRAINAGE WORKS (2ND DRY SEASON)	21 days	2 days	Wed 1/11/17	Tue 21/11/17	0 days	0%	402
404	PILING WORKS AT GRID 2	45 days	4 days	Wed 22/11/17	Fri 5/1/18	0 days	0%	403
405	PILE CAP AT GRID 2	30 days	3 days	Sat 6/1/18	Sun 4/2/18	0 days	0%	404
406	PIER CONSTRUCTION AT GRID 2	45 days	4 days	Mon 5/2/18	Wed 21/3/18	0 days	0%	405
407	PILING WORKS AT GRID 3	45 days	4 days	Sat 6/1/18	Mon 19/2/18	0 days	0%	404
408	PILE CAP AT GRID 3	30 days	3 days	Tue 20/2/18	Wed 21/3/18	0 days	0%	407
409	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	408,406
410	END DATE OF 2ND DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	409
411	PILING WORKS AT GRID 1 WITH ALL PILE LOAD TESTING	100 days	7 days	Thu 22/3/18	Fri 29/6/18	0 days	0%	408
412	PILE CAP AT GRID 1	30 days	3 days	Sat 30/6/18	Sun 29/7/18	0 days	0%	411
413	ABUTMENT AT GRID 1	94 days	7 days	Mon 30/7/18	Wed 31/10/18	0 days	0%	412,389
414	STARTING DATE OF 3RD DRY SEASON	0 days		Thu 1/11/18	Thu 1/11/18	0 days	0%	413,410FS+214 days
415	BRIDGE DECK CONSTRUCTION WITH TEMPORARY DRAINAGE WORKS	141 days	10 days	Thu 1/11/18	Thu 21/3/19	0 days	0%	414,400
416	ABUTMENT AND MOVEMENT JOINT AT GRID 3	45 days	4 days	Thu 1/11/18	Sat 15/12/18	96 days	0%	415SS
417	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Fri 22/3/19	Sun 31/3/19	0 days	0%	415



Task | Summary | External Milestone | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
Split | Project Summary | Inactive Task | Manual Task | Manual Summary | Critical | Deadline
Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | Critical Split

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CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
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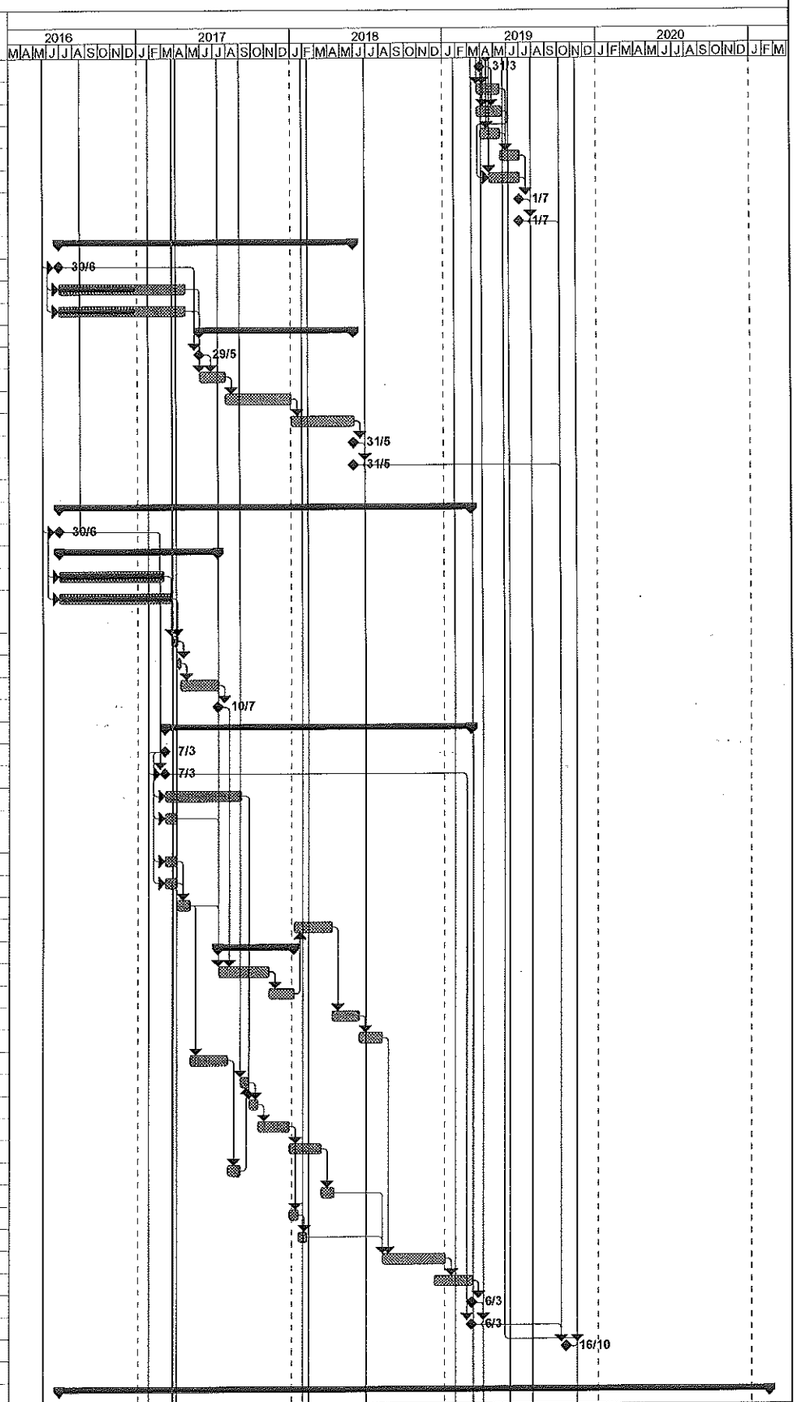
SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
418	END DATE OF 3RD DRY SEASON	0 days		Sun 31/3/19	Sun 31/3/19	0 days	0%	417
419	RAMP	55 days	5 days	Fri 22/3/19	Wed 15/5/19	0 days	0%	415,416,389
420	STEEL STRUCTURAL ROOF WORKS	60 days	5 days	Fri 22/3/19	Mon 20/5/19	0 days	0%	415,418FS-10 days
421	EARTHWORKS AND DRAINAGE WORKS	45 days	4 days	Mon 1/4/19	Wed 15/5/19	0 days	0%	417
422	ROAD WORKS	47 days	4 days	Thu 16/5/19	Mon 1/7/19	0 days	0%	421,419
423	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	72 days	7 days	Sun 21/4/19	Mon 1/7/19	0 days	0%	415FS+30 days,420FS-30 days
424	COMPLETION OF PORTION M	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	422,423
425	COMPLETION OF SECTION W5	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	424
426	**SECTION W6 (TM0.0 - 960)**	**701 days**		**Thu 30/6/16**	**Thu 31/5/18**	**0 days**	**37%**	
427	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	0%	2SS
428	APPLICATION OF EXCAVATION PERMIT	300 days	10 days	Thu 30/6/16	Tue 25/4/17	34 days	60%	427SS
429	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	300 days	10 days	Thu 30/6/16	Tue 25/4/17	34 days	60%	427SS
430	**PORTION P**	**367 days**		**Mon 29/5/17**	**Thu 31/5/18**	**0 days**	**0%**	
431	POSSESION OF SITE	0 days		Mon 29/5/17	Mon 29/5/17	0 days	0%	427FS+334 days,429
432	DOCUMENT SUBMISSION	60 days	5 days	Tue 30/5/17	Fri 28/7/17	0 days	0%	431,428,429
433	DRAINAGE WORKS	157 days	10 days	Sat 29/7/17	Mon 1/1/18	0 days	0%	432
434	ROAD WORKS	150 days	10 days	Tue 2/1/18	Thu 31/5/18	0 days	0%	433
435	COMPLETION OF PORTION P	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	434
436	COMPLETION OF SECTION W6	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	435
437								
438	**SECTION W7 (ST2.27 - 2.73, KW 0 - 1.35)**	**980 days**		**Thu 30/6/16**	**Wed 6/3/19**	**0 days**	**27%**	
439	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	250 days	0%	2SS
440	**CONTRACTOR DESIGN FOR RETAINING WALL**	**376 days**		**Thu 30/6/16**	**Mon 10/7/17**	**0 days**	**83%**	
441	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD) FOR RW47	247 days		Thu 30/6/16	Fri 3/3/17	0 days	100%	439SS
442	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD) FOR RW46, RW48	265 days		Thu 30/6/16	Tue 21/3/17	0 days	100%	439SS
443	REVIEW AND APPROVED BY SUPERVISOR	14 days		Wed 22/3/17	Tue 4/4/17	0 days	50%	442,441
444	REVIEW AND APPROVED BY PM	7 days		Wed 5/4/17	Tue 11/4/17	0 days	0%	443
445	REVIEW AND APPROVED BY GEO/HYD	90 days		Wed 12/4/17	Mon 10/7/17	0 days	0%	444
446	COMMENCEMENT OF SITE WORK	0 days		Mon 10/7/17	Mon 10/7/17	0 days	0%	445
447	**PORTION J2, J3**	**730 days**		**Tue 7/3/17**	**Wed 6/3/19**	**0 days**	**0%**	
448	***INSTRUCTION TO EXECISE***	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	
449	POSSESSION OF SITE (J2, J3)	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	448SS,439
450	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Tue 7/3/17	Sat 2/9/17	135 days	0%	448SS
451	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORIES HEIGHT TEMP. BLDG	28 days	2 days	Tue 7/3/17	Mon 3/4/17	98 days	0%	449SS
452	INITIAL SURVEY	28 days	2 days	Tue 7/3/17	Mon 3/4/17	68 days	0%	449SS
453	TREE SURVEY	28 days	2 days	Tue 7/3/17	Mon 3/4/17	68 days	0%	449SS
454	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	3 days	Tue 4/4/17	Wed 3/5/17	68 days	0%	453,452
455	RW 46 (67M) (CSD)	90 days	7 days	Sun 7/1/18	Fri 6/4/18	0 days	0%	458
456	**RW 47 (CSD - CUT SLOPE AND SOIL NAILS)**	**180 days**		**Tue 11/7/17**	**Sat 6/1/18**	**0 days**	**0%**	
457	EARTHWORK	120 days	10 days	Tue 11/7/17	Tue 7/11/17	0 days	0%	454,451,446,365
458	GEOTECHNICAL AND SLOP DRAINAGE WORKS	60 days	7 days	Wed 8/11/17	Sat 6/1/18	0 days	0%	457
459	RW 48 (CSD): BAY 1 - BAY 6 (60M)	65 days	5 days	Sat 7/4/18	Sun 10/6/18	0 days	0%	455
460	RW 48 (CSD) : BAY 7 - BAY 11 (50M)	55 days	5 days	Mon 11/6/18	Sat 4/8/18	0 days	0%	459
461	EARTHWORKS AND DRAINAGE WORKS (KW 1+080 - KW1+360)	90 days	7 days	Thu 4/5/17	Tue 1/8/17	116 days	0%	454
462	RW 24A (20M)	21 days	2 days	Fri 1/9/17	Thu 21/9/17	116 days	0%	466,365
463	RW 24B (18M)	21 days	2 days	Fri 22/9/17	Thu 12/10/17	116 days	0%	462,450
464	RW 24C (62M)	75 days	7 days	Fri 13/10/17	Tue 26/12/17	116 days	0%	463
465	RW 25 (83M)	75 days	7 days	Wed 27/12/17	Sun 11/3/18	116 days	0%	464
466	RW 26 (20M)	30 days	2 days	Wed 2/8/17	Thu 31/8/17	116 days	0%	461
467	STREAM DECKING D8	30 days	2 days	Mon 12/3/18	Tue 10/4/18	116 days	0%	465
468	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Wed 27/12/17	Tue 16/1/18	179 days	0%	464
469	DEMOLITION OF EXISTING STRUCTURE	21 days	3 days	Wed 17/1/18	Tue 6/2/18	179 days	0%	468
470	EARTHWORKS AND DRAINAGE WORKS	150 days	10 days	Sun 5/8/18	Tue 1/1/19	0 days	0%	469,467,460
471	ROAD WORKS	90 days	7 days	Fri 7/12/18	Wed 6/3/19	0 days	0%	470FS-26 days
472	COMPLETION OF PORTION J	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	471
473	COMPLETION OF SECTION W7	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	472,449FS+730 days
474	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	473,436,425,381,366,331,157
475								
476	**LANDSCAPING SOFTWORKS AND ESTABLISHMENT WORK**	**1689 days**		**Thu 30/6/16**	**Fri 12/2/21**	**0 days**	**0%**	



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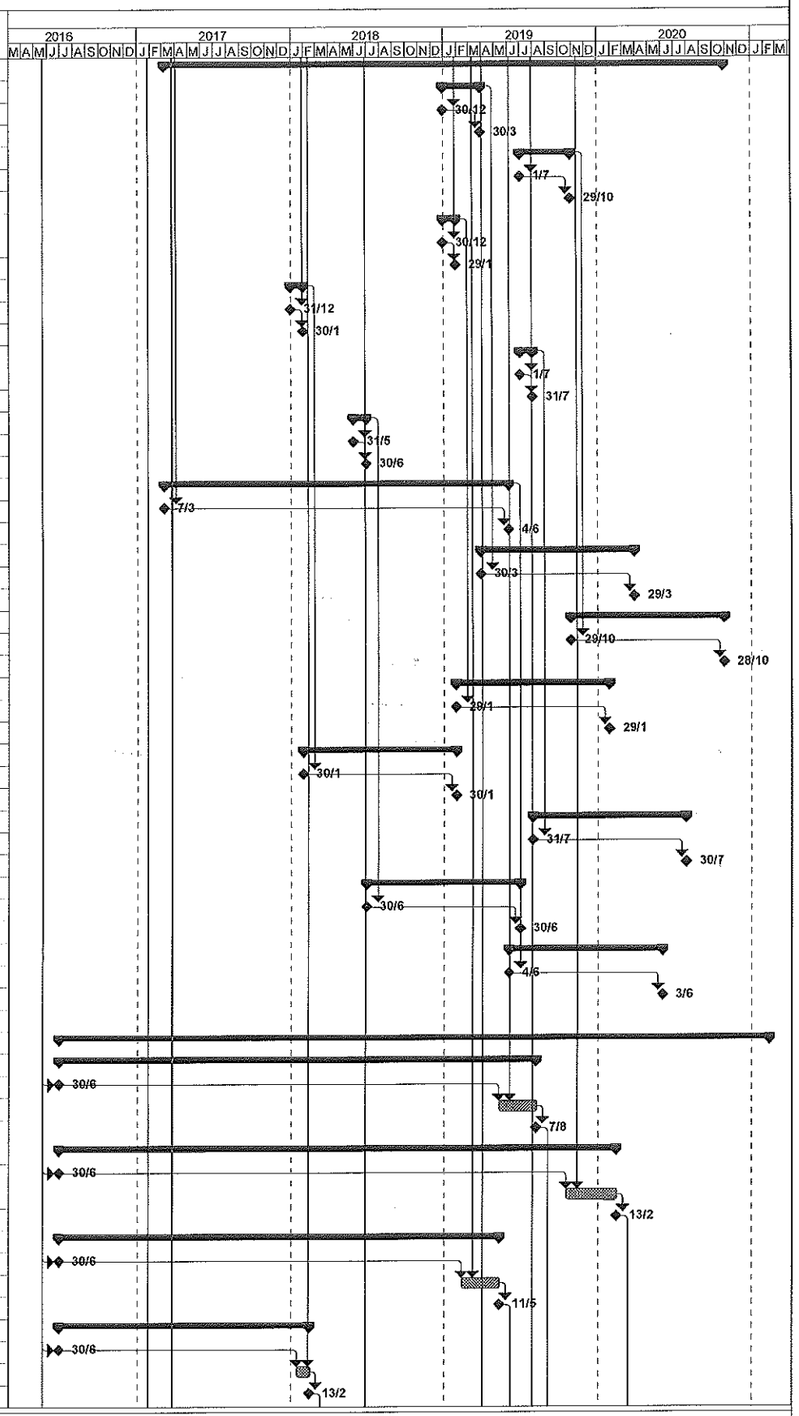
SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
477	**ACCESS DATES AND COMPLETION DATES FOR CONTRACTS**	**1332 days**		**Tue 7/3/17**	**Wed 28/10/20**	**0 days**	**0%**	
478	**SECTION W8A**	**90 days**		**Sun 30/12/18**	**Sat 30/3/19**	**0 days**	**0%**	
479	ACCESS DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	4
480	COMPLETION DATE	0 days		Sat 30/3/19	Sat 30/3/19	0 days	0%	479FS+90 days
481	**SECTION W8B**	**120 days**		**Mon 1/7/19**	**Tue 29/10/19**	**0 days**	**0%**	
482	ACCESS DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	10
483	COMPLETION DATE	0 days		Tue 29/10/19	Tue 29/10/19	0 days	0%	482FS+120 days
484	**SECTION W8C**	**30 days**		**Sun 30/12/18**	**Tue 29/1/19**	**0 days**	**0%**	
485	ACCESS DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	18
486	COMPLETION DATE	0 days		Tue 29/1/19	Tue 29/1/19	0 days	0%	485FS+30 days
487	**SECTION W8D**	**30 days**		**Sun 31/12/17**	**Tue 30/1/18**	**0 days**	**0%**	
488	ACCESS DATE	0 days		Sun 31/12/17	Sun 31/12/17	0 days	0%	24
489	COMPLETION DATE	0 days		Tue 30/1/18	Tue 30/1/18	0 days	0%	488FS+30 days
490	**SECTION W8E**	**30 days**		**Mon 1/7/19**	**Wed 31/7/19**	**0 days**	**0%**	
491	ACCESS DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	28
492	COMPLETION DATE	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	491FS+30 days
493	**SECTION W8F**	**30 days**		**Thu 31/5/18**	**Sat 30/6/18**	**0 days**	**0%**	
494	ACCESS DATE	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	32
495	COMPLETION DATE	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	494FS+30 days
496	**SECTION W8G**	**820 days**		**Tue 7/3/17**	**Tue 4/6/19**	**0 days**	**0%**	
497	ACCESS DATE	0 days		Tue 7/3/17	Tue 7/3/17	730 days	0%	37
498	COMPLETION DATE	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	497FS+90 days
499	**SECTION W9A**	**365 days**		**Sat 30/3/19**	**Sun 29/3/20**	**0 days**	**0%**	
500	ACCESS DATE	0 days		Sat 30/3/19	Sat 30/3/19	0 days	0%	478
501	COMPLETION DATE	0 days		Sun 29/3/20	Sun 29/3/20	0 days	0%	500FS+365 days
502	**SECTION W9B**	**365 days**		**Tue 29/10/19**	**Wed 28/10/20**	**0 days**	**0%**	
503	ACCESS DATE	0 days		Tue 29/10/19	Tue 29/10/19	0 days	0%	481
504	COMPLETION DATE	0 days		Wed 28/10/20	Wed 28/10/20	0 days	0%	503FS+365 days
505	**SECTION W9C**	**365 days**		**Tue 29/1/19**	**Wed 29/1/20**	**0 days**	**0%**	
506	ACCESS DATE	0 days		Tue 29/1/19	Tue 29/1/19	0 days	0%	484
507	COMPLETION DATE	0 days		Wed 29/1/20	Wed 29/1/20	0 days	0%	506FS+365 days
508	**SECTION W9D**	**365 days**		**Tue 30/1/18**	**Wed 30/1/19**	**0 days**	**0%**	
509	ACCESS DATE	0 days		Tue 30/1/18	Tue 30/1/18	0 days	0%	487
510	COMPLETION DATE	0 days		Wed 30/1/19	Wed 30/1/19	0 days	0%	509FS+365 days
511	**SECTION W9E**	**365 days**		**Wed 31/7/19**	**Thu 30/7/20**	**0 days**	**0%**	
512	ACCESS DATE	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	490
513	COMPLETION DATE	0 days		Thu 30/7/20	Thu 30/7/20	0 days	0%	512FS+365 days
514	**SECTION W9F**	**365 days**		**Sat 30/6/18**	**Sun 30/6/19**	**0 days**	**0%**	
515	ACCESS DATE	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	493
516	COMPLETION DATE	0 days		Sun 30/6/19	Sun 30/6/19	0 days	0%	515FS+365 days
517	**SECTION W9G**	**365 days**		**Tue 4/6/19**	**Wed 3/6/20**	**0 days**	**0%**	
518	ACCESS DATE	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	496
519	COMPLETION DATE	0 days		Wed 3/6/20	Wed 3/6/20	0 days	0%	518FS+365 days
520								
521	**PLANNED WORK PROGRAMME**	**1689 days**		**Thu 30/6/16**	**Fri 12/2/21**	**0 days**	**0%**	
522	**SECTION W8A**	**1134 days**		**Thu 30/6/16**	**Wed 7/8/19**	**0 days**	**0%**	
523	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1044 days	0%	2SS
524	LANDSCAPING SOFTWORKS	90 days	7 days	Fri 10/5/19	Wed 7/8/19	0 days	0%	157,523
525	COMPLETION OF SECTION W8A	0 days		Wed 7/8/19	Wed 7/8/19	0 days	0%	524
526	**SECTION W8B**	**1324 days**		**Thu 30/6/16**	**Thu 13/2/20**	**0 days**	**0%**	
527	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1204 days	0%	2SS
528	LANDSCAPING SOFTWORKS	120 days	10 days	Thu 17/10/19	Thu 13/2/20	0 days	0%	527,331
529	COMPLETION OF SECTION W8B	0 days		Thu 13/2/20	Thu 13/2/20	0 days	0%	528
530	**SECTION W8C**	**1046 days**		**Thu 30/6/16**	**Sat 11/5/19**	**0 days**	**0%**	
531	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	956 days	0%	2SS
532	LANDSCAPING SOFTWORKS	90 days	7 days	Mon 11/2/19	Sat 11/5/19	0 days	0%	366,531
533	COMPLETION OF SECTION W8C	0 days		Sat 11/5/19	Sat 11/5/19	0 days	0%	532
534	**SECTION W8D**	**594 days**		**Thu 30/6/16**	**Tue 13/2/18**	**0 days**	**0%**	
535	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	564 days	0%	2SS
536	LANDSCAPING SOFTWORKS	30 days	3 days	Mon 15/1/18	Tue 13/2/18	0 days	0%	381,535
537	COMPLETION OF SECTION W8D	0 days		Tue 13/2/18	Tue 13/2/18	0 days	0%	536



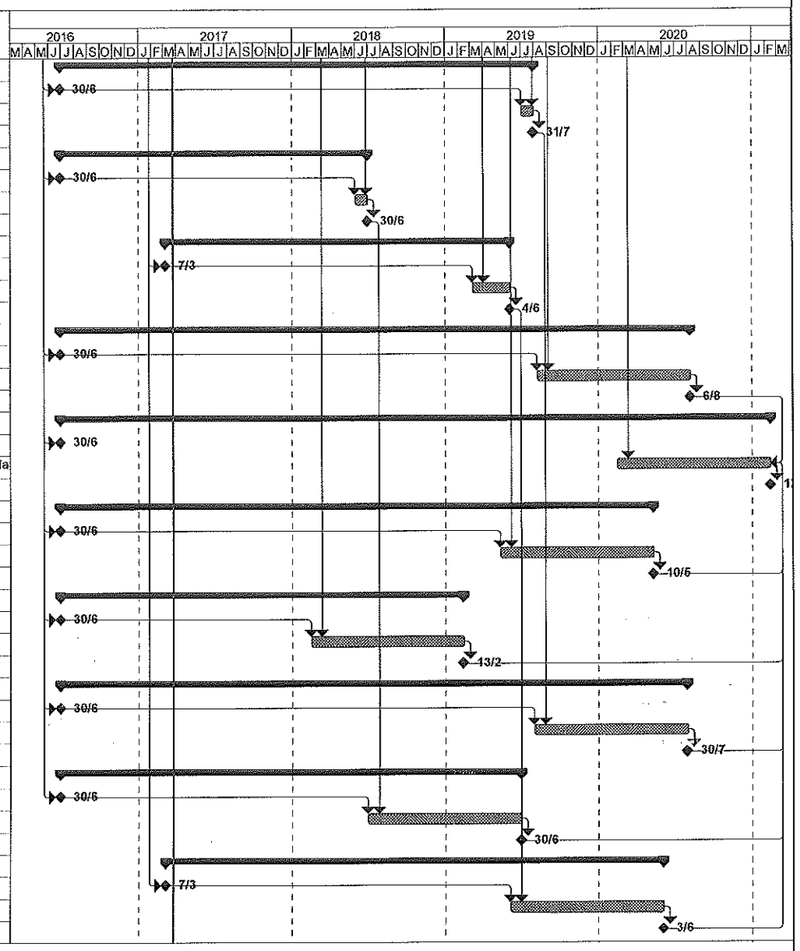
Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors
538	**SECTION W8E**	**1127 days**		**Thu 30/6/16**	**Wed 31/7/19**	**0 days**	**0%**	
539	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS
540	LANDSCAPING SOFTWORKS	30 days	3 days	Tue 2/7/19	Wed 31/7/19	0 days	0%	425,539
541	COMPLETION OF SECTION W8E	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	540
542	**SECTION W8F**	**731 days**		**Thu 30/6/16**	**Sat 30/6/18**	**0 days**	**0%**	
543	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	701 days	0%	2SS
544	LANDSCAPING SOFTWORKS	30 days	3 days	Fri 1/6/18	Sat 30/6/18	0 days	0%	543,436
545	COMPLETION OF SECTION W8F	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	544
546	**SECTION W8G**	**820 days**		**Tue 7/3/17**	**Tue 4/6/19**	**0 days**	**0%**	
547	***INSTRUCTION TO EXECISE***	0 days		Tue 7/3/17	Tue 7/3/17	730 days	0%	37SS
548	LANDSCAPING SOFTWORKS	90 days	7 days	Thu 7/3/19	Tue 4/6/19	0 days	0%	473,547
549	COMPLETION OF SECTION W8G	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	548
550	**SECTION W9A**	**1499 days**		**Thu 30/6/16**	**Thu 6/8/20**	**0 days**	**0%**	
551	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1134 days	0%	2SS
552	ESTABLISHMENT WORKS	365 days	30 days	Thu 8/8/19	Thu 6/8/20	0 days	0%	525,551
553	COMPLETION OF SECTION W9A	0 days		Thu 6/8/20	Thu 6/8/20	0 days	0%	552
554	**SECTION W9B**	**1689 days**		**Thu 30/6/16**	**Fri 12/2/21**	**0 days**	**0%**	
555	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1689 days	0%	2SS
556	ESTABLISHMENT WORKS	365 days	30 days	Fri 14/2/20	Fri 12/2/21	0 days	0%	529,553FF+190 days,561FF+278 days,565FF+730 da
557	COMPLETION OF SECTION W9B	0 days		Fri 12/2/21	Fri 12/2/21	0 days	0%	556
558	**SECTION W9C**	**1411 days**		**Thu 30/6/16**	**Sun 10/5/20**	**0 days**	**0%**	
559	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1046 days	0%	2SS
560	ESTABLISHMENT WORKS	365 days	30 days	Sun 12/5/19	Sun 10/5/20	0 days	0%	533,559
561	COMPLETION OF SECTION W9C	0 days		Sun 10/5/20	Sun 10/5/20	0 days	0%	560
562	**SECTION W9D**	**959 days**		**Thu 30/6/16**	**Wed 13/2/19**	**0 days**	**0%**	
563	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	594 days	0%	2SS
564	ESTABLISHMENT WORKS	365 days	30 days	Wed 14/2/18	Wed 13/2/19	0 days	0%	537,563
565	COMPLETION OF SECTION W9D	0 days		Wed 13/2/19	Wed 13/2/19	0 days	0%	564
566	**SECTION W9E**	**1492 days**		**Thu 30/6/16**	**Thu 30/7/20**	**0 days**	**0%**	
567	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1127 days	0%	2SS
568	ESTABLISHMENT WORKS	365 days	30 days	Thu 1/8/19	Thu 30/7/20	0 days	0%	541,567
569	COMPLETION OF SECTION W9E	0 days		Thu 30/7/20	Thu 30/7/20	0 days	0%	568
570	**SECTION W9F**	**1096 days**		**Thu 30/6/16**	**Sun 30/6/19**	**0 days**	**0%**	
571	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	731 days	0%	2SS
572	ESTABLISHMENT WORKS	365 days	30 days	Sun 1/7/18	Sun 30/6/19	0 days	0%	545,571
573	COMPLETION OF SECTION W9F	0 days		Sun 30/6/19	Sun 30/6/19	0 days	0%	572
574	**SECTION W9G**	**1185 days**		**Tue 7/3/17**	**Wed 3/6/20**	**0 days**	**0%**	
575	***LAST DAY FOR INSTRUCTION TO EXECISE***	0 days		Tue 7/3/17	Tue 7/3/17	820 days	0%	37SS
576	ESTABLISHMENT WORKS	365 days	30 days	Wed 5/6/19	Wed 3/6/20	0 days	0%	549,575
577	COMPLETION OF SECTION W8A	0 days		Wed 3/6/20	Wed 3/6/20	0 days	0%	576



Task — Summary — External Milestone — Inactive Summary — Manual Summary Rollup — Finish-only — Progress
Split — Project Summary — Inactive Task — Manual Task — Manual Summary — Critical — Deadline
Milestone — External Tasks — Inactive Milestone — Duration-only — Start-only — Critical Split

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

APPENDIX B
MONITORING REQUIREMENTS

Appendix B - Environmental Impact Monitoring Requirements

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L_{eq}, L_{90} & L_{10} at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	• N1 - HKMLC Wong Chan Sook Ying Memorial School • N2 – Bethel High School • N3 – No. 159 Mai Po San Tsuen • N5 – Block 2, Dills Corner Garden • N6 – Home of Loving Faithfulness • N7 – Village House in Shek Wu Wai	• N1 – Façade measurement at Rooftop (about 5/F) area • N2 – Façade measurement at Rooftop (about 4/F) area • N3 – Free field measurement at G/F area • N5 – Free field measurement at G/F area • N6 – Façade measurement at Rooftop (about 3/F) area • N7 – Free field measurement at G/F area

APPENDIX C
ACTION AND LIMIT LEVELS FOR NOISE

Appendix C - Action and Limit Levels

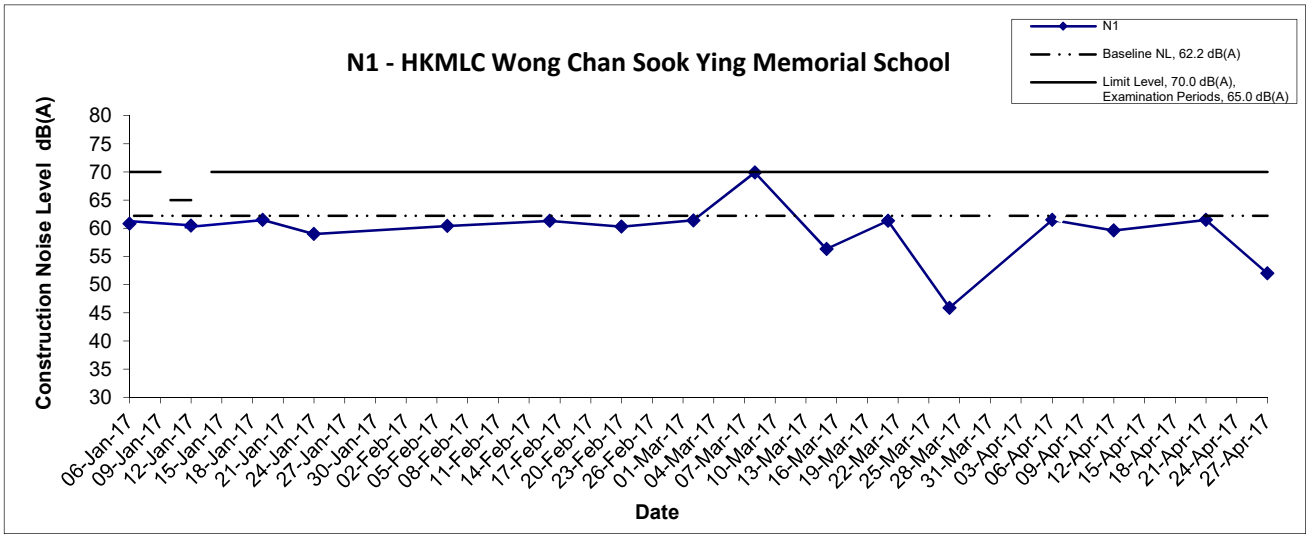
Table B-1 Action and Limit Levels for Construction Noise

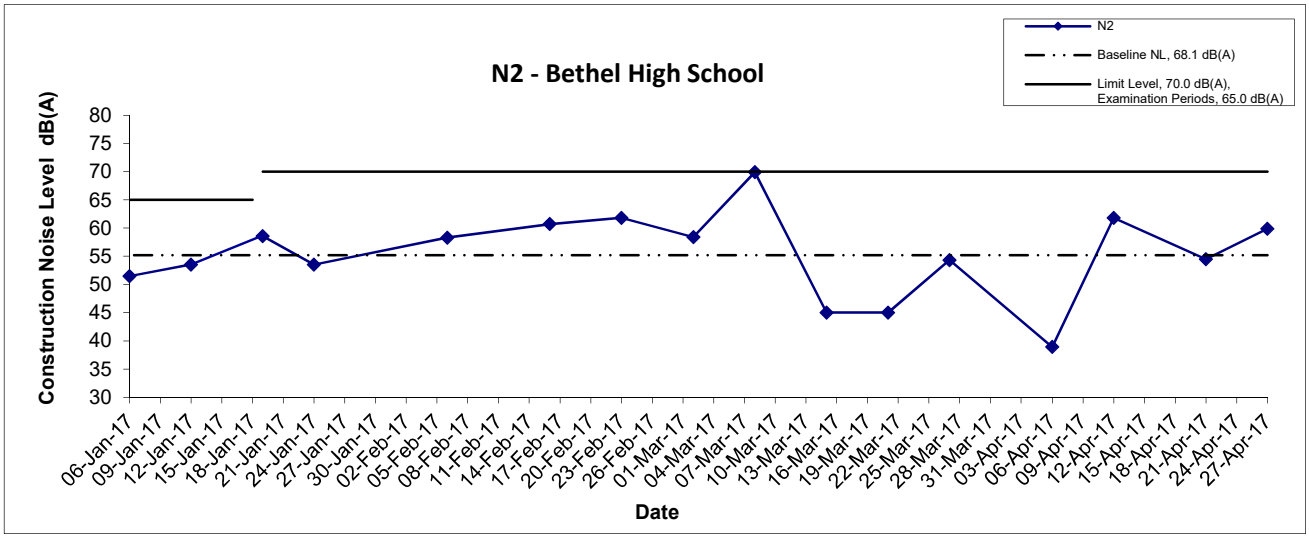
Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

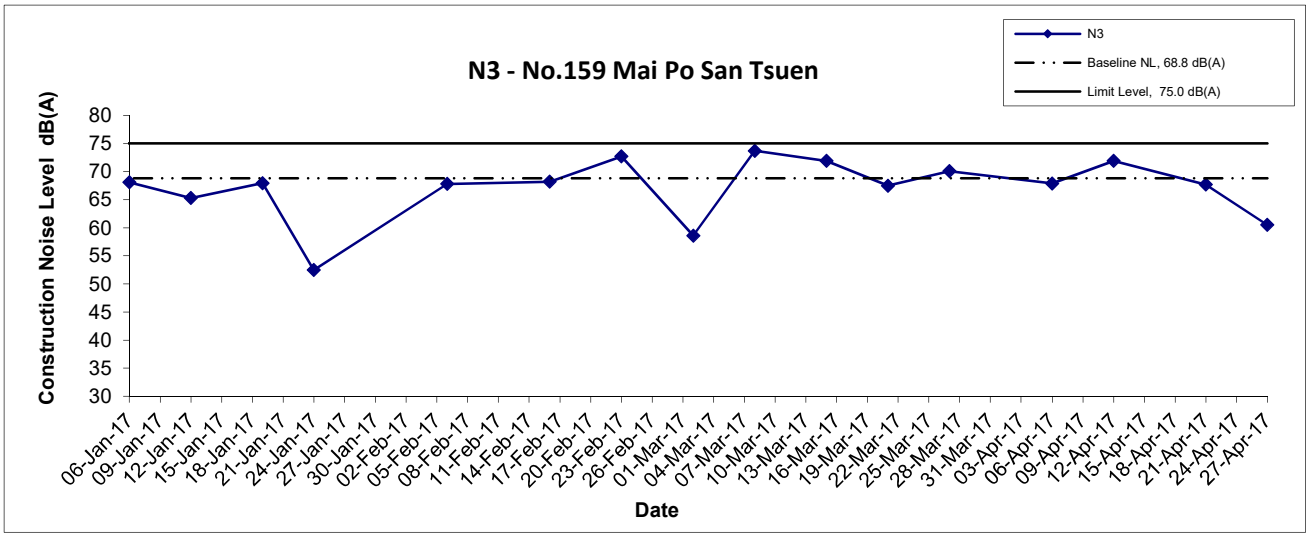
Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX D
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Noise Levels

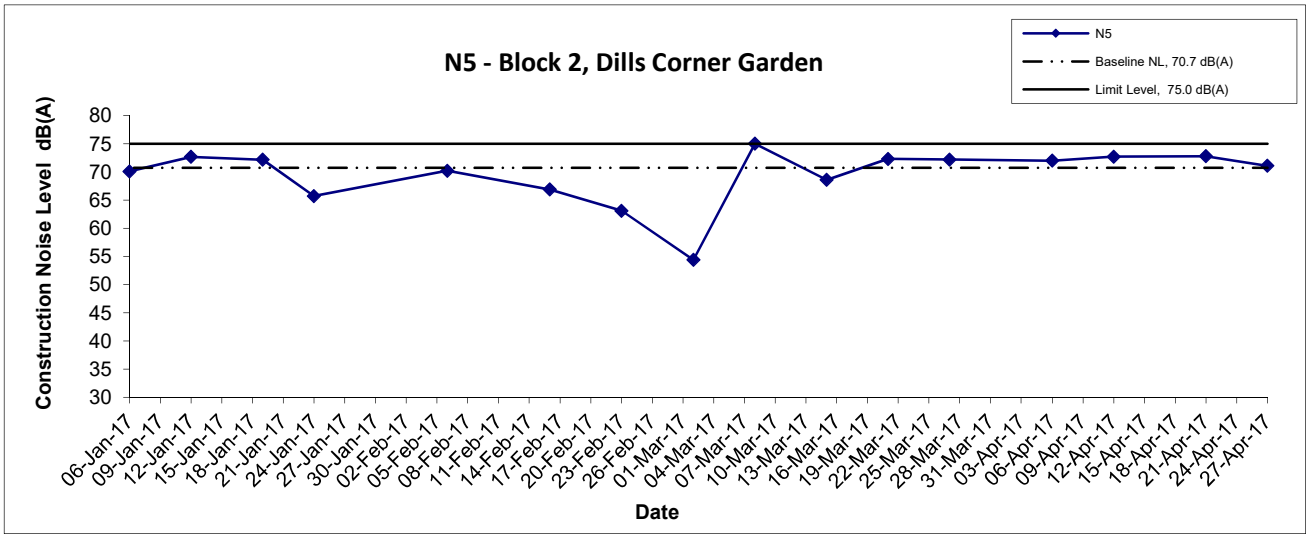


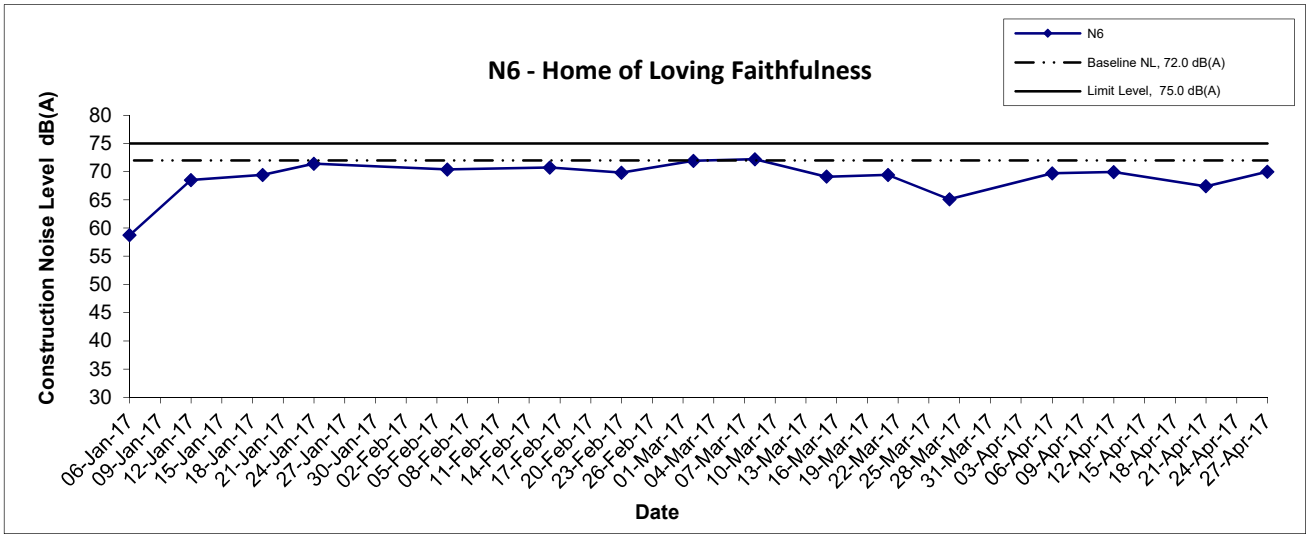


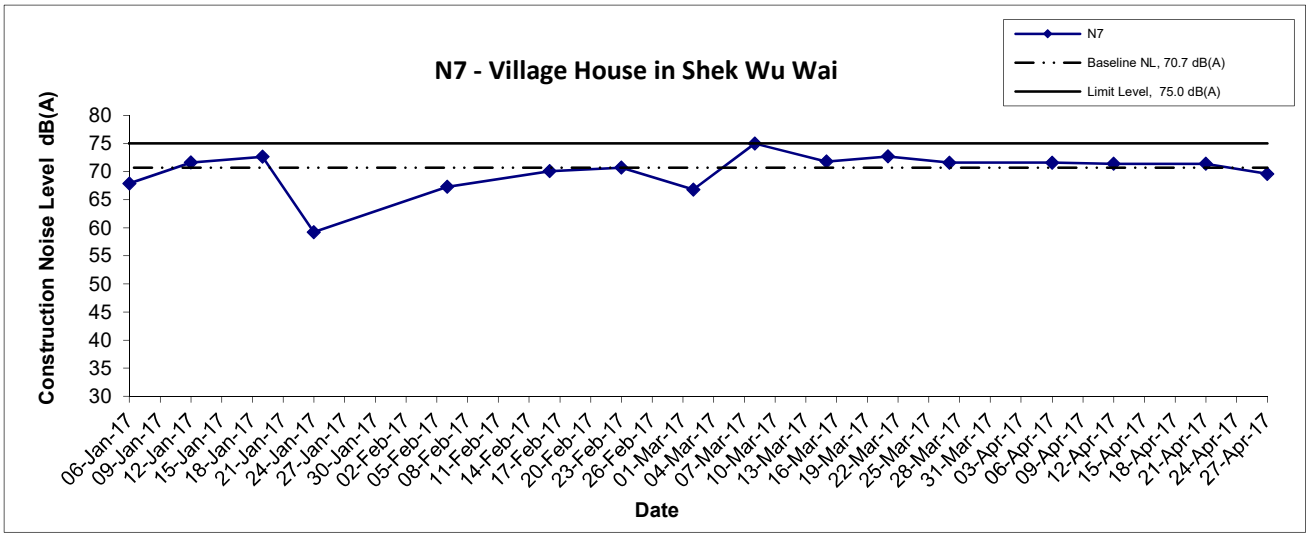


Title: Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Apr 17	Project No.: MA16036 Appendix: E	CINOTECH

Noise Levels







Title: Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No.: MA16036	CINOTECH
	Date: Apr 17	Appendix: E	

APPENDIX E
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Air Quality			
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	^
S.3.6.2	S.3.2.3	● The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet	*
S.3.6.2	S.3.2.3	● Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading	^
S.3.6.2	S.3.2.3	● Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage	*
S.3.6.2	S.3.2.3	● Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle	^
S.3.6.2	S.3.2.3	● Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks	^
S.3.6.2	S.3.2.3	● Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate	^
S.3.6.2	S.3.2.3	● Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides	*

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	● All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet	^
Construction Noise Impact			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CH-MP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): - mini excavator - mobile crane - dump truck - hand-held electric circular saw - concrete lorry mixer - lorry - vibratory poker - asphalt paver - crane mounted auger - road roller - road ripper, excavator mounted	^
S.5.6.2 Table 5-8	S.4.2.19	Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable: - mini excavator - mobile crane - dump truck - hand-held electric circular saw - bar bender - vibrating hammer - generator - concrete lorry mixer - lorry - vibratory poker - asphalt paver - compactor - road roller - crane mounted auger	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		- grout mixer - grout pump - drill - road ripper, excavator mounted	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PMEs where practicable: - air compressor - hand-held breaker	N/A(1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m^2.	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible	^
Construction Water Quality			
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	^
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	^
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	^
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^
S.6.6.1	S.5.2.4	Other manholes (including any newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system	^
S.6.6.1	S.5.2.4	Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system	^
S.6.6.1	S.5.2.4	Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);	^
S.6.6.1	S.5.2.4	Where applicable, final earthworks surfaces/ slopes will be well compacted and	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		hydro-seeded following completion to prevent erosion	
S.6.6.1	S.5.2.4	During construction works, chemical toilets will be provided for the use of site staff. These will be provided by a licensed contractor, who will be responsible for appropriate disposal and maintenance of the effluent	^
S.6.6.1	S.5.2.4	Works adjacent to the fishponds near Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds	^
S.6.6.1	S.5.2.4	Wastewater from site facilities (such as toilets) should be discharged to foul sewer, where available. Chemical toilets will be considered where there is no foul sewer connection. There is not expected to be a temporary canteen.	^
S.6.6.1	S.5.2.4	All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD	^
S.6.6.1	S.5.2.4	Vehicle wheel washing facilities should be provided, where applicable, at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area	*
S.6.6.1	S.5.2.4	Section of the road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	^
S.6.6.1	S.5.2.4	The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks	^
S.6.6.1	S.5.2.4	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spilled oil, fuel or chemicals from reaching the receiving waters	*
S.6.6.1	S.5.2.4	Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas	N/A
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	^
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	^
Construction Waste Management			
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER's approval. The WMP shall include monthly and yearly Waste Flow Tables ("WFT") that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	^
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	
S.7.4.1	S.6.2.6	● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site	^
S.7.4.1	S.6.2.6	● Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation	^
S.7.4.1	S.6.2.6	● All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance)	^
S.7.4.1	S.6.2.6	● The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence	^
S.7.4.1	S.6.2.6	● In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	● Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;	*
S.7.4.1	S.6.2.6	● A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works;	*
S.7.4.1	S.6.2.6	● All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and	^
S.7.4.1	S.6.2.6	● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	^
S.7.4.1	S.6.2.6	● The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction.	^
Land Contamination			
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD's approval.	
S.8.7.5	S.7.3.1	The following control measures should be implemented when handling identified contaminated materials: ▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; ▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; ▪ Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; ▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.	N/A
S.8.7.5	S.7.3.1	<u>Management of Contaminated Soils</u> ▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; ▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; ▪ All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area; ▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions; ▪ Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological & Fisheries Impact			
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	^
S.9.11.7	S.8.2.3 (Stage 1 only)	*In situ* compensation planting at the Information Kiosk and R9 should occur to provide continuing function of the bamboo and plantation (see Figure 8-1 of EM&A Manual for Stage 1 Works (Year 2015)). It is recommended that the Information Kiosk and Resting Station R9 should be designed sympathetically to the natural surroundings. Compensation planting along the Sheung Yue River and Shek Sheung River including at R9 and Information Kiosk could be implemented as appropriate.	N/A
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	For the Kam Tin section and the Long Valley section of the Project, construction works shall not be carried out during the wet season (April to October) which is considered to have no significant impact to wildlife and to avoid the breeding season of Greater Painted-snipes at Long Valley. This is also to prevent any site run-off to adjacent water channels and fishponds including those fishponds along San Tin Tsuen Road.	^
S.9.11.23	S.8.2.4 (Stage 2 only)	Construction of the section in the vicinity of Mai Po Village SSSI shall be undertaken beyond the recognised breeding seasons for ardeids in Hong Kong to prevent any potential disturbance to the nesting birds, i.e., from September to February.	^
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo groove from dust-coating on leave next to the R9 and hence affect the breeding habitat of the very rare Dark Brown Ace, a dust barrier should be installed between the bamboo and the construct site.	N/A
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		be implemented practicable to minimize the noise disturbance to the foraging ardeids.	
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	^
S.10.5.4	S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	^
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	The following good work practices are recommended: ▪ Avoid soil storage against trees; ▪ Fence off any potentially ecologically sensitive areas; ▪ Delineation of works area to prevent encroachment onto adjacent habitats; ▪ Reinstatement of habitat after works; ▪ No on-site burning of waste;	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		▪ Waste and refuse in appropriate receptacles; ▪ Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; ▪ Regular ecological checks; and ▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off	
Cultural Heritage Impact			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape and Visual			
Detailed Design Phase			
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS falled within the cycle track works area shall be incorporated in the final landscape design of this Project.	^
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree Survey Report and approval from relevant departments at that stage	
Construction Phase			
Table 12-11	CP1.1	To retain trees, which have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	^
	CP1.2	Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	*
	CP1.3	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.	*
	CP1.4	Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case.	^
	CP1.5	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	^
	CP1.6	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	^
	CP1.7	The rectification and repair of damaged vegetation following the construction phase to its original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected	N/A
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		implementation of protection measures and health monitoring throughout the construction period	
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	N/A
	CP2.0	The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents.	^
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use.	^
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.	^
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion. Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	^
	CP3.1	Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.	N/A
	CP3.2	Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of site lighting to prevent light spillage.	^
	CP3.3	Screen the works area during the construction phase through the use of decorative hoarding along the site boundary facing adjacent VSRs	^
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	^
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents	
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^

Remarks:	EM&A Manual for Stage 1 Works under EP-450/2013/A (App No.: VEP-478/2015) EM&A Manual for Stage 2 Works under EP-501/2015 (App No.: AEP-501/2015)	
	^ Compliance of mitigation measure;	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage; N/A(1) Not observed;	• Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.	

APPENDIX F
SITE AUDIT SUMMARY

Appendix F Summary of Observation and Recommendation Made during Site Inspection

Summary of Observations and Recommendations Made during Site Inspections in February 2017

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	17, 24 Jan and 8 Feb 2017	Silt and sediment in wheel washing bay in Portion A should be properly and regularly removed.	Rectification/improvement was observed during the follow-up audit session.
	21 and 28 Feb 2017	Water inside the wheel washing bay of Portion A is observed silty. The Contractor is reminded to clear the water regularly to increase the efficiency of wheel washing	Follow up actions will be reported in the next month.
Air Quality	21 and 28 Feb 2017	To provide frequent water spray to unpaved area in Portion K.	Follow up actions will be reported in the next month.
	28 Feb 2017	Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	Follow up actions will be reported in the next month.
	17, 24 Jan and 8 Feb 2017	Dust on haul road next to entrance of Portion A and C should be cleared.	Rectification/improvement was observed during the follow-up audit session.
	24 Jan and 8 Feb 2017	Water spraying should be provided more frequently to haul roads in Portion C for dust suppression.	Rectification/improvement was observed during the follow-up audit session.
	24 Jan and 8 Feb 2017	Dust on haul roads in Portion A and Portion C should be cleared.	Rectification/improvement was observed during the follow-up audit session.
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	8, 15 and 21 Feb 2017	Rubbish bins in Portion K should be maintained more frequently.	Rectification/improvement was observed during the follow-up audit session.
	15 Feb 2017	Drip tray should be provided to chemical container in Portion K and Works Area 3.	Rectification/improvement was observed during the follow-up audit session.
	21 and 28 Feb 2017	To clear the oil stain in unpaved area in Portion K.	Follow up actions will be reported in the next month.
	28 Feb 2017	Drip tray should be provided to chemical containers in Portion K.	Follow up actions will be reported in the next month.
	13, 17, 24 Jan, 8 and 15 Feb 2017	Oil stain under excavator in WA3 should be properly removed as chemical waste.	Rectification/improvement was observed during the follow-up audit session.
	24 Jan, 8 and 15 Feb 2017	Drip tray should be provided to chemical containers in Works Area 3.	Rectification/improvement was observed during the follow-up audit session.
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	24 Jan, 8 and 15 Feb 2017	Fencing of tree protection zones in Portion A, Works Area 3 and Portion K should be enhanced to protect existing trees. Construction materials should not be placed within tree protection zones.	Rectification/improvement was observed during the follow-up audit session.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

Summary of Observation and Recommendation Made during Site Inspection in March 2017

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	21, 28 Feb, 8, 15 and 21 Mar 2017	Water inside the wheel washing bay of Portion A is observed silty. The Contractor is reminded to clear the water regularly to increase the efficiency of wheel washing.	Rectification/improvement was observed during the follow-up audit session.
	29 Mar 2017	Wheel washing bays in Portion C and K were found silty and containing some litters, the water should be replaced or maintained more frequently to ensure clean water is used for wheel washing of vehicles.	Follow up actions will be reported in the next month.
	15 and 21 Mar 2017	Sandbag bund should be provided next to the wheel washing bay in Portion C to avoid silty runoff out of the Site boundary.	Rectification/improvement was observed during the follow-up audit session.
Air Quality	21, 28 Feb, 8 and 15 Mar 2017	To provide frequent water spray to unpaved area in Portion K.	Rectification/improvement was observed during the follow-up audit session.
	28 Feb, 8, 15 and 29 Mar 2017	Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	Follow up actions will be reported in the next month.
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	21, 28 Feb and 21 Mar 2017	To clear the oil stain in unpaved area in Portion K.	Rectification/improvement was observed during the follow-up audit session.
	28 Feb, 8, 15, 21, 29 Mar 2017	Drip tray should be provided to chemical containers in Portion E, K and Works Area 3.	Follow up actions will be reported in the next month.
	28 Feb, 8 and 15 Mar 2017	To avoid the accumulation of general refuse and clear the waste properly at Portion K.	Rectification/improvement was observed during the follow-up audit session.
	29 Mar 2017	Rubbish bins or waste collectors should be provided in Portion C for proper disposal and storage of solid waste.	Follow up actions will be reported in the next month.
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	8, 15, 21 and 29 Mar 2017	Fencing of tree protection zones in Works Area 3 should be provided to protect all existing trees.	Follow up actions will be reported in the next month.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

Summary of Observation and Recommendation Made during Site Inspection in April 2017

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	29 Mar, 5, 11, 18 and 26 Apr 2017	Wheel washing bays in Portions A, C and K should be maintained more frequently to remove sand and silt in the water.	Follow up actions will be reported in the next reporting period.
	26 Apr 2017	Exposed muddy slope surfaces in Portion A and C should be covered by well-maintained tarpaulins to prevent muddy and silty slides.	Follow up actions will be reported in the next reporting period.
Air Quality	29 Mar, 5, 11, 18 and 26 Apr 2017	Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	Follow up actions will be reported in the next reporting period.
	5 Apr 2017	Water spraying should be provided more frequently at Portion E for dust suppression.	Haul roads were not observed dusty on 11 Apr 2017.
Noise	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	29 Mar, 5, 11, 18 and 26 Apr 2017	Drip trays should be provided to chemical containers in Portions A, C, E, K and Works Area 3 to prevent leakage.	Follow up actions will be reported in the next reporting period.
	29 Mar, 5, 11, 18 and 26 Apr 2017	Rubbish bins or waste collectors should be provided in Portion C for proper disposal and storage of solid waste.	Follow up actions will be reported in the next reporting period.
	11 and 18 Apr 2017	PME in Portion C should be maintained to avoid any oil leakage.	The oil leakage from the PME in Portion C was cleared on 26 Apr 2017.
	11 and 18 Apr 2017	General refuse collectors in Portion A should be maintained more frequently.	General refuse collectors were maintained on 26 Apr 2017.
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	29 Mar 2017	Fencing of tree protection zones in Works Area 3 should be provided to protect all existing trees.	Fencing of existing trees was provided on 5 Apr 2017.
	11, 18 and 26 Apr 2017	Fencing of tree protection zones in Portion E, K and WA3 should be enhanced to protect all existing trees.	Follow up actions will be reported in the next reporting period.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

APPENDIX G
MONTHLY SUMMARY WASTE FLOW TABLE

Name of Department: CEDD Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for __2017__ (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	1.86	-	-	-	1.86	0.493	0.2	0.2	0.2	-	0.11
July	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
Total	1.86	-	-	-	1.86	0.493	0.2	0.2	0.2	-	0.11

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
5	2	1	1	1	10	3	3	1	1	3

*Remark: Figure to be revised if necessary

Notes:

(1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].

APPENDIX H
SUMMARY OF EXCEEDANCES

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. YL/2015/01 – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

(A) Exceedance Report for Construction Noise
(NIL in the reporting period)

ANNEX I
COMPARISONS OF EM&A DATA AND EIA PREDICTIONS

Annex I – Comparison of EM&A Data and EIA Predictions

Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (Feb 17), $L_{eq\ (30min)}$ dB(A)	Reporting Month (Mar 17), $L_{eq\ (30min)}$ dB(A)	Reporting Month (Apr 17), $L_{eq\ (30min)}$ dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62(1)	60.3 – 61.3	45.9 – 69.9	52.0 – 61.5
N2 – Bethel High School	57-64	64(1)	58.3 – 61.8	45.0 – 69.9	38.9 – 61.8
N3 – No. 159 Mai Po San Tsuen	70-73	74(2)	67.8 – 72.7	58.6 – 73.7	60.5 – 71.9
N5 – Block 2, Dills Corner Garden	73-75	75(2)	63.1 – 70.2	54.4 – 72.3	71.1 – 72.8
N6 – Home of Loving Faithfulness	64-73	74(1)	69.8 – 70.7	65.1 – 72.2	67.4 – 70.0
N7 – Village House in Shek Wu Wai	N/A(3)	70(2)	67.3 – 70.7	66.8 – 75.0	69.6 – 71.6

Remark:

(1) With adoptions of quiet PMEs, temporary noise barrier and enclosure

(2) With sub-grouping of construction activities

(3) No construction noise level was predicted in EIA Report (2009)