

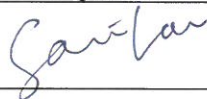

Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange**

**Quarterly EM&A Report
for November 2017 to January 2018**

[2/2018]

	Name	Signature
Prepared & Checked:	Sammi Lam	
Reviewed & Approved:	Y W Fung	

Version:	Rev. 0	Date: 20 February 2018
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Attn: Mr. James Penny

Your Reference

EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)

Our Reference

JFP/EC/ST/pl/T329380/22
.05/L-0203

**Environmental Permit No. EP-324/2008/E
Quarterly EM&A Summary Report for November 2017 to January 2018 for the portion of Stage 2 works under Contract No. HY/2012/06**

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We refer to the Quarterly EM&A Summary Report for November 2017 to January 2018 for the captioned Project received on 07 February 2018 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c.
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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under three works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. In addition, Contract No. “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project and “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 “Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)”.

Pursuant to the EP (EP-324/2008/E) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 November 2017 and 31 January 2018. As informed by the Contractor, construction activities of Contract No. HY/12012/06 in the reporting period were as follows:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Footbridge demolition
- Bridge construction
- Piling

As informed by the Contractor, construction activities of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in the reporting period were:

- Backfilling to NB74 Bay 3 to Bay 7
- Construction of catchpits and drainage pipes sheetpiling at Bay 9 to Bay 10
- Construction of footing for Bay 9 to Bay 10

- Construction of footing for NB74 Bay 8, 8A & 8B
- Construction of Posts P27-P30
- Construction of wall stem for NB74 Bay 2 to Bay 10
- Erection of NB Posts and metal frame for BBI
- Sheetpiling at Bay 9 to Bay 10

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

1.1.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06] (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction

- Noise barrier
- Excavation
- Backfilling
- Drainage
- Footbridge demolition
- Bridge construction
- Piling

Details of the construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 carried out by the Contractor in this reporting period are listed below:

- Backfilling to NB74 Bay 3 to Bay 7
 - Construction of catchpits and drainage pipes sheetpiling at Bay 9 to Bay 10
 - Construction of footing for Bay 9 to Bay 10
 - Construction of footing for NB74 Bay 8, 8A & 8B
 - Construction of Posts P27-P30
 - Construction of wall stem for NB74 Bay 2 to Bay 10
 - Erection of NB Posts and metal frame for BBI
 - Sheetpiling at Bay 9 to Bay 10
- 1.3.2 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.
- 1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.3a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days.
- 3.1.2 The weather was mostly sunny, occasionally fine, cloudy and rainy in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	69.2	61.9 – 79.7	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	49.1	23.7 – 97.1	200.7	260

3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.

3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.

3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.

4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2* (West Tai Wo)	69.3	65.7 – 70.9	75
M3# (Fanling Government Secondary School)	65.1	60.0 – 67.8	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.

4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

5.1.1 As advised by the Contractor of Contract No. HY/2012/06, 13,653 m³ of inert C&D material was generated in the reporting period (36m³ was broken concrete, 4,746m³ was reused in the Contract, 503m³ was reused in other Projects and 8,368m³ was disposed as public fill to Tuen Mun 38). 240 kg of general refuse was disposed of at NENT landfill. 17,566 kg of metals, 181 kg of paper and 3,860 kg of plastics were collected by recycling Contractors, and 0 kg of chemical wastes were collected by licensed Contractors in the reporting period.

5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table for Contract No. HY/2012/06

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	8,368 m ³	Tuen Mun 38
Broken concrete	36 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	240 m ³	NENT Landfill
Paper/cardboard packaging	181 kg	Recycling Facilities
Plastics	3,860 kg	Recycling Facilities
Metals	17,566 kg	Recycling Facilities
C&D materials reused on site	4,746 m ³	Site Area
C&D materials reused in other projects	503 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

5.1.3 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 140 m³ of inert C&D material was generated in the reporting month (137 m³ disposed of as public fill to Tuen Mun 38, 0 m³ of inert C&D materials was reused on site, 0 m³ of inert C&D materials was reused in other projects and 3 m³ was broken concrete). For C&D wastes, 0 m³ of general refuse was disposed of at NENT landfill, 3 kg of paper/cardboard packaging, 3 kg of plastics and 0 kg of metals were collected by recycling Contractors in the reporting period.

5.1.4 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 5.2.

Table 5.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	137 m ³	Tuen Mun 38
Broken concrete	3 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	0 m ³	NENT Landfill
Paper/cardboard packaging	3 kg	Recycling Facilities
Plastics	3 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m ³	Site Area
C&D materials reused in other projects	0 m ³	Other projects

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.

6.1.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No complaint, notification of summons or successful prosecution was received in the reporting period.
- 7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.3 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Contract No. HY/2012/06

Air Quality Impact

- The Contractor was advised to provide adequate watering regularly for exposed area and slope as dust suppression.
- The Contractor was advised to provide sufficient measures to keep the public access road clear of dusty material.
- The Contractor was advised to remove the mud trails and ensure vehicles are properly wheel washed before leaving the site.
- The Contractor was advised to provide valid NRMM label for all equipment before operation.
- The Contractor was advised to cover the stockpile of dusty materials entirely with impervious sheeting.
- The Contractor was advised to cover the exposed slope properly with impervious sheeting for dust suppression.
- The Contractor was advised to remove the dusty materials near the vehicle exit point and implement measures to direct surface run-off to sedimentation tank.
- The Contractor was advised to cover the stockpile of more than 20 bags of cement entirely with impervious sheeting for dust suppression.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor was advised to remove the sandy materials near the drainage entrance and implement measures to prevent surface runoff of site and silt from entering the drainage system.
- The Contractor was advised to remove the silt and debris in drainage and ensure flow of water without obstruction.
- The Contractor was advised to implement effective measures to prevent muddy water being flowed outside the site.

Chemical and Waste Management

- The Contractor was advised to keep the site clean and tidy.
- The Contractor was advised to provide secondary containment for chemical container to prevent potential leakage.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Air Quality Impact

- The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- The Contractor was advised to keep the vehicle exit point clear of dusty materials.

- The Contractor was advised to provide adequate watering regularly for exposed area for dust suppression.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor was advised to keep the intercepting channel clear of obstacle.

Chemical and Waste Management

- The Contractor was advised to provide secondary containment for chemical container to prevent potential leakage.

Landscape and Visual Impact

- Nil.

Miscellaneous

- Nil.

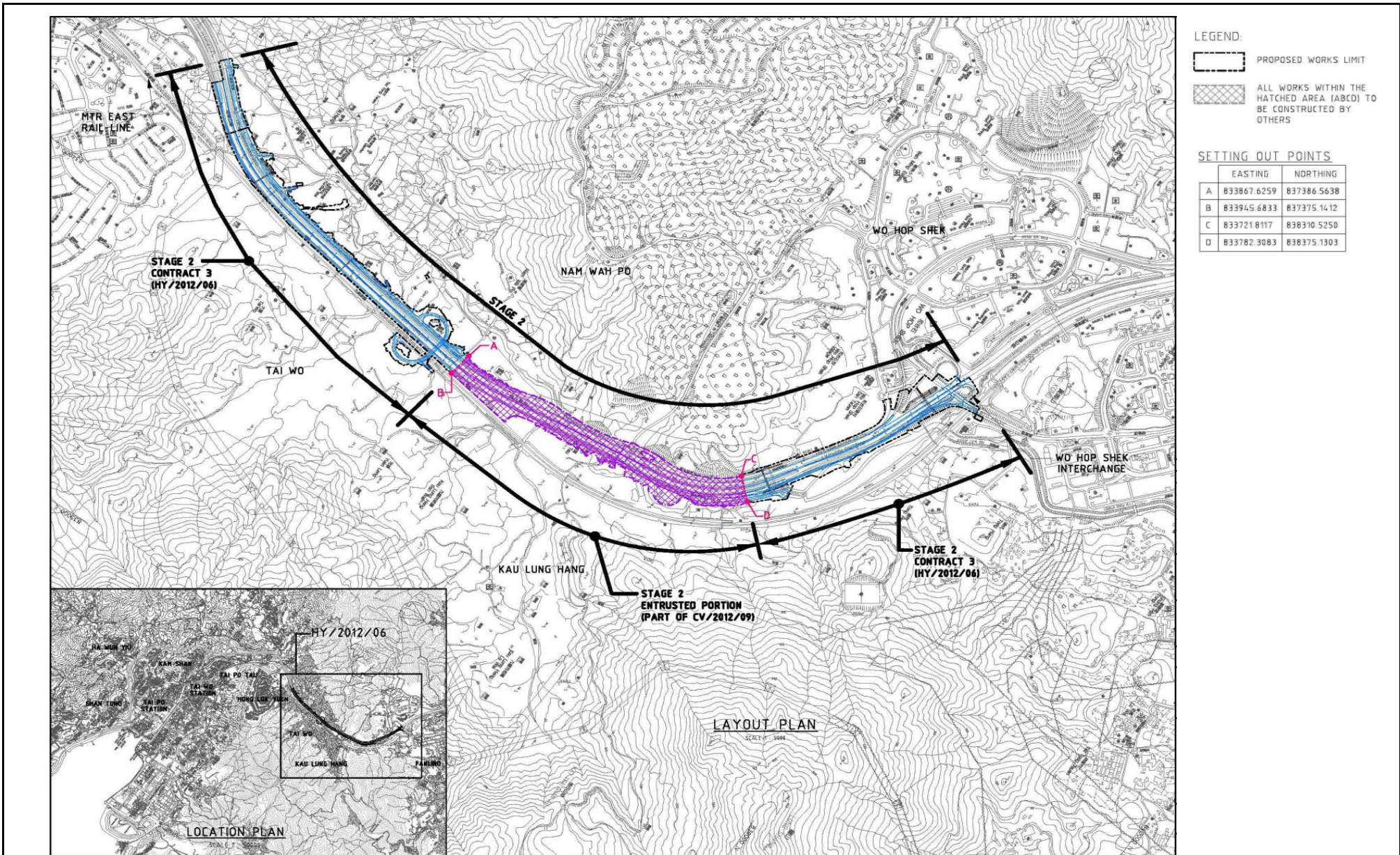
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 No complaint, notification of summons or successful prosecution was received in the reporting period.

FIGURES



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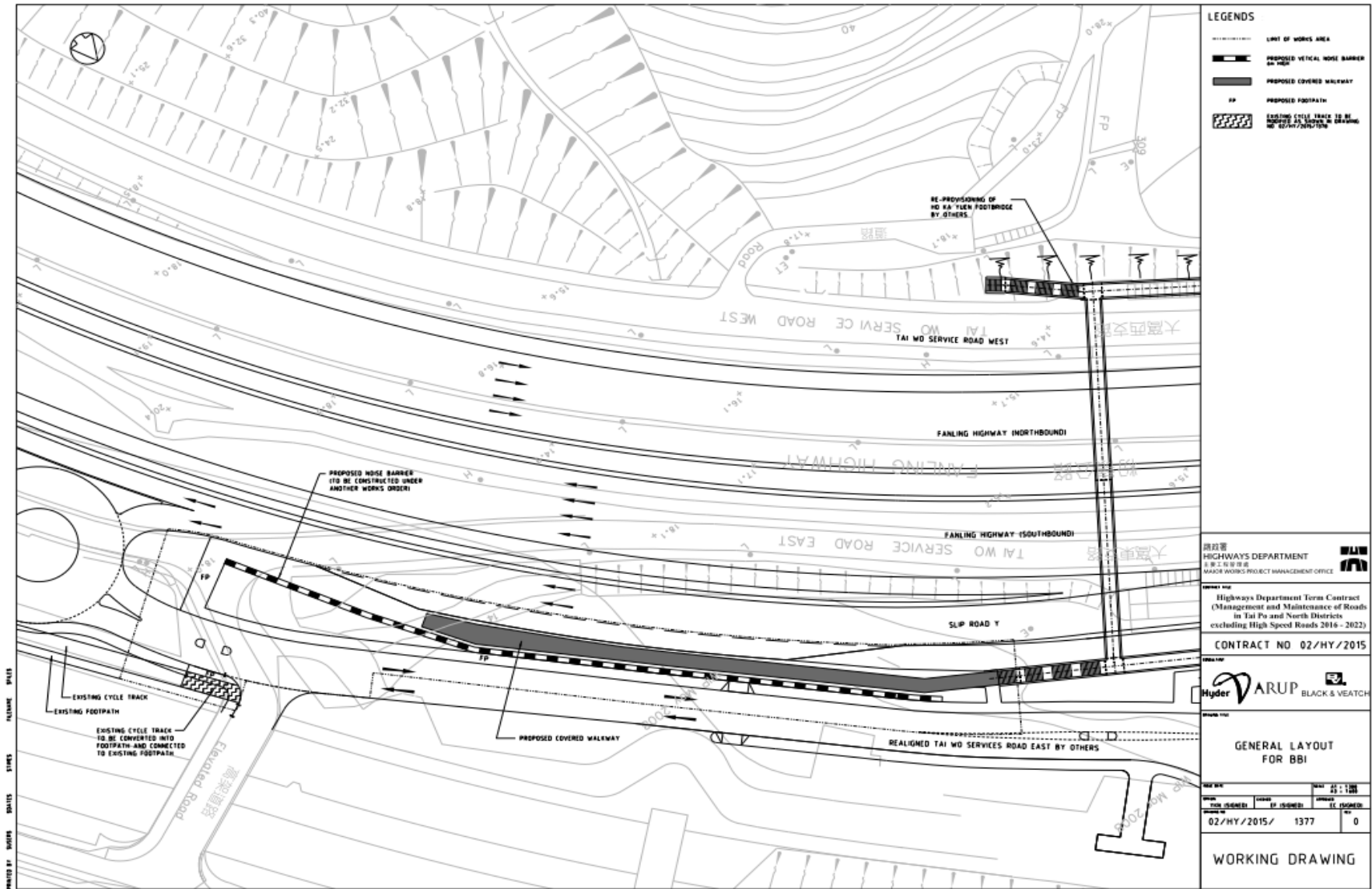
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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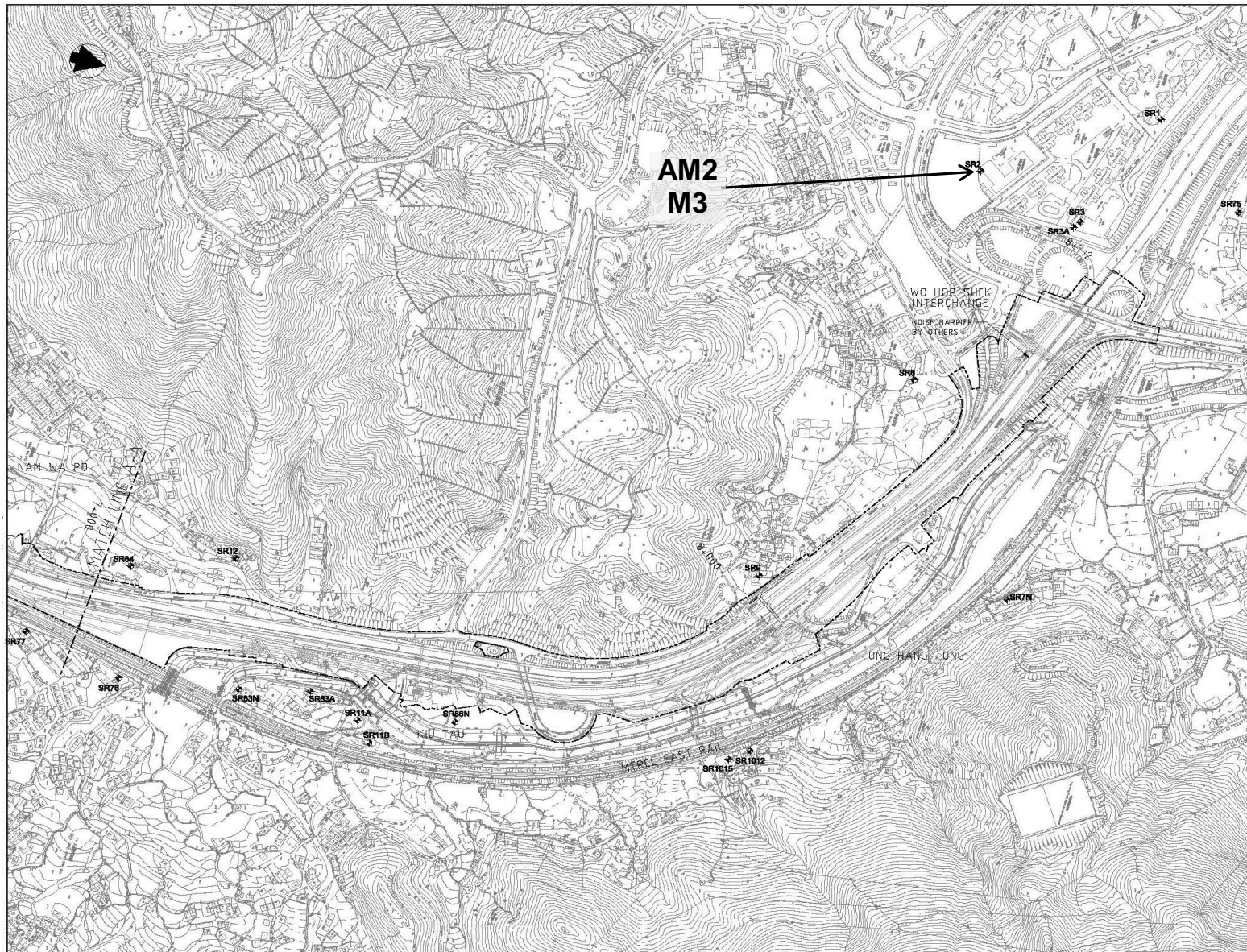
CONTRACT NO. 02/HY/2015
 PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



Layout Plan

Date: Apr 2017

Figure 1.2



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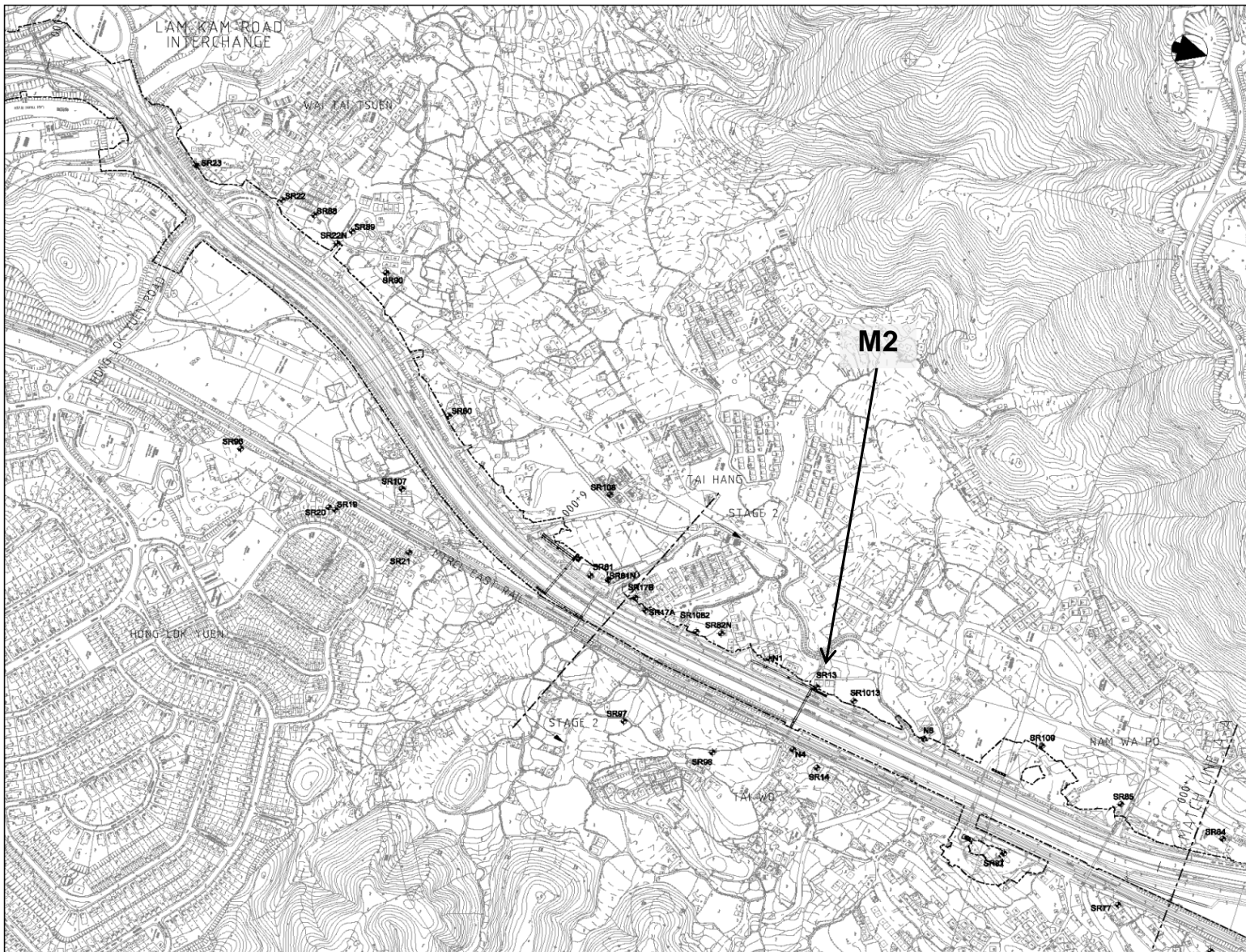
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.3a



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

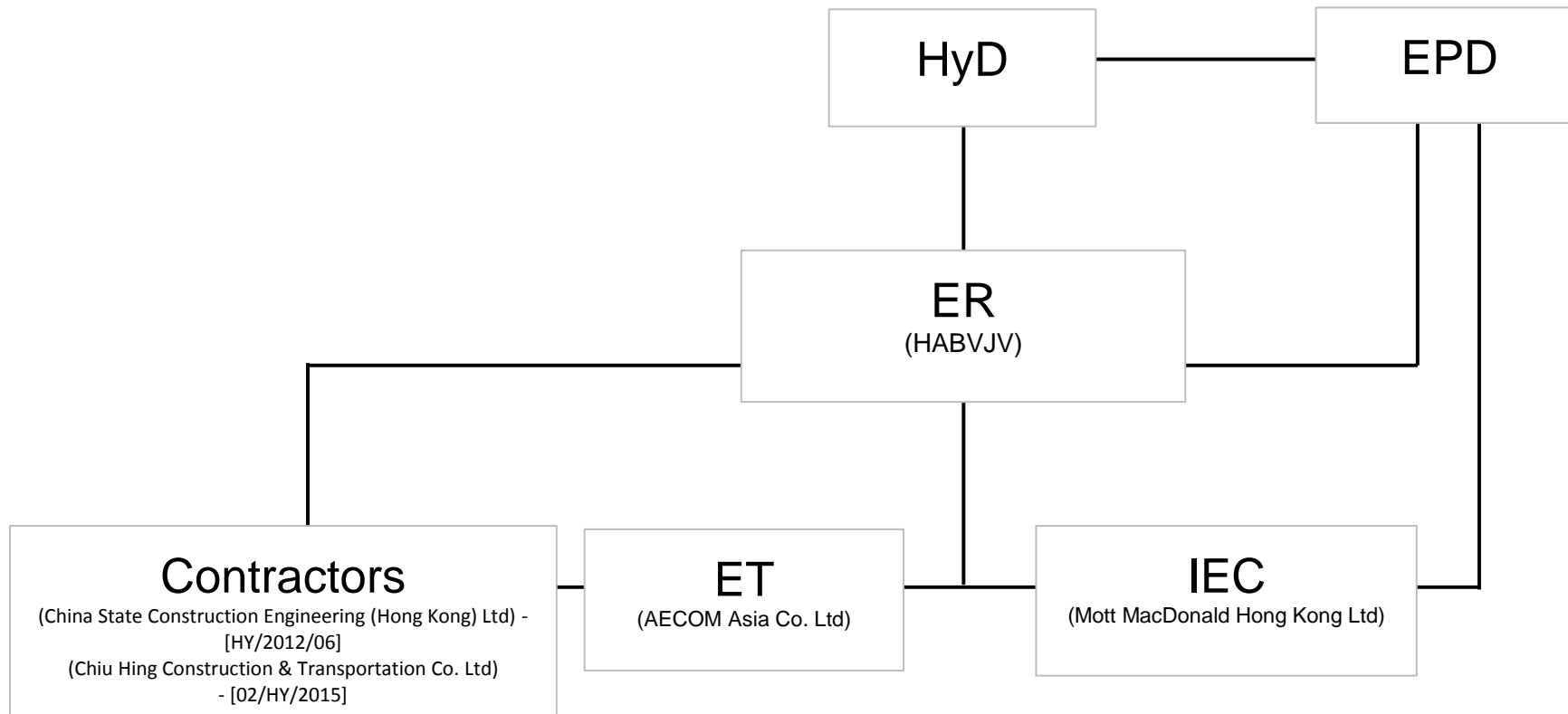


Locations of Monitoring Station

Date: Dec 2013

Figure 1.3b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

**CONSTRUCTION PROGRAMME OF
NOVEMBER 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018					
								Nov	Dec	Jan	Feb	Nov	Dec	Jan	Feb		
Contract Condition																	
General																	
Contract Condition																	
Contract Condition																	
KD14	KD-14 1523d) - S4: Achievement: Rd widening of Fanling Highway @	0%	0	0		20-Nov-17	204										
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Nov-17		962										
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Nov-17*		-1054										
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Nov-17*		-856										
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Nov-17*		-721										
ZONE 1 (Ch. 5640 to 5880)																	
Noise Barrier Along Fanling Highway N/B																	
NB43B (Ch.5640-5880)-FH N/B Side																	
Noise Barrier Works																	
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	0%	18	18	19-Jul-17 A	09-Dec-17	31										
NB01220	NB43B-1 - Footing & Wall Structure	0%	40	40	11-Dec-17	29-Jan-18	31										
NB01225	NB43B-1 (0-100m) - Drainage Works	0%	24	24	30-Jan-18	01-Mar-18	63										
NB01240	NB43B-1 - NB production	0%	45	45	30-Jan-18	15-Mar-18	431										
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	0%	18	18	16-Nov-17 A	09-Dec-17	71										
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	30-Jan-18	20-Mar-18	31										
NB01310	NB43B-3 (200-260m) - Sheet piling & Excavation	95.96%	12	297	03-Jul-17 A	20-Mar-18	31										
Fanling Highway Construction																	
Drainage & Road Works																	
Ch 5640-5880																	
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 4)	0%	20	20	08-Jan-18	30-Jan-18	191										
ZONE 2 (Ch. 5880 to 6930)																	
General																	
DRM Proposal																	
DRM Proposal																	
ADVZ20280	TTA for NB construction (Shift TWSR-W to Temp road)	0%	30	30	18-Dec-17	24-Jan-18	-2										
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	0%	249	249	25-Jan-18	27-Nov-18	-2										
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	0%	174	174	05-Oct-17 A	25-Jun-18	133										
Noise Barrier Along TWSR-West and Laying New Utilities																	
NB54A (Ch.6290-6350)-TWSR West Side																	
Noise Barrier Works																	
NB00790	NB54A - NB post & panel installation	0%	5	5	02-Jan-18*	06-Jan-18	388										
Noise Barrier Along Fanling Highway N/B																	
Site Clearance & Demolition of Existing Structure																	
General																	
ADVZ20130	Existing Utility cable disconnected & TTA for NB complete	0%	0	0	25-Jan-18		-2										
ADVZ20140	Site Clearance (for NB Along FH N/B)	0%	30	30	18-Dec-17	24-Jan-18	-2										
NB43A (Ch.5880-6060)-FH N/B Side																	
Noise Barrier Works																	
NB001080	NB43A-1D1-2 piling (0.19m -18nos)-1 rigs	0%	27	27	25-Jan-18	28-Feb-18	-2										
NB01510	NB43A-1 (0-61.5m) - Sheet piling & Excavation	0%	18	18	06-Nov-17 A	09-Dec-17	187										
NB01560	NB43A-2 (86.8-166.7m) - Sheet piling & Excavation	0%	18	18	25-Jan-18	14-Feb-18	49										
NB01570	NB43A-2 - Footing & Wall Structure	0%	60	60	15-Feb-18	04-May-18	49										
NB50 (Ch.6060-6130)-FH N/B Side																	
Noise Barrier Works																	
NB001150	NB50 -piling (0.19m -28nos)	0%	42	42	25-Jan-18	17-Mar-18	19										
NB50A (Ch.6130-6450)-FH N/B Side																	
Noise Barrier Works																	
NB01654	NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling	0%	20	20	25-Jan-18	20-Feb-18	5										
NB60 (Ch.6450-6920)-FH N/B Side																	
Noise Barrier Works																	
NB01910	NB60 ID3-2 (174-192m) 0.19m -18nos Piling	0%	27	27	25-Jan-18	28-Feb-18	23										
NB01980	NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling	0%	72	72	25-Jan-18	26-Apr-18	37										
Bridge Construction																	
New Tai Hang Footbridge																	
TWSR-West/ FL Highway N/B Side Section																	
THBF0620	Finishes Work	68.47%	64	203	27-Feb-17 A	05-Feb-18	182										
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		05-Feb-18	182										
Crossing Fanling Highway Section																	
THBF0575	Erect Temp Tower at central divider	0%	18	18	20-Nov-17	09-Dec-17	160										
THBF0580	Erect THFB across fanling highway	0%	30	30	11-Dec-17	17-Jan-18	160										
THBF0590	Finishes Work	0%	30	30	18-Jan-18	24-Feb-18	168										
TWSR-East FL Highway S/B Side Section																	
THBF0470	THAB1 - pile cap & abutment wall	79.91%	45	224	21-Nov-16 A	12-Mar-18	75										
THBF0780	Modified existing column head of existing footbridge	0%	76	76	20-Nov-17	22-Feb-18	110										
Lift at TWSR-W Side																	
L1530	Structural Laminated glass wall installation	0%	30	30	20-Nov-17	23-Dec-17	108										
L1550	Metal cover on RC platform	0%	30	30	20-Nov-17	23-Dec-17	96										

	Project ID: WP Rev 05 (1711)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Nov-17)		Date	Revision	C.A
	Layout: 3 Month Rolling Program			30-Jun-14	WP Rev 1A	
	Page 1 of 5			28-Aug-15	WP Rev 2	
				07-Apr-16	WP Rev 3	
				08-Nov-16	WP Rev 4	
	17-Aug-17	WP Rev 5				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018	
								Nov		Dec		Jan	Feb
L1555	Glass canopy on ground level	0%	30	30	27-Dec-17	31-Jan-18	186						
L1560	Lift installation (NF115)	0%	70	70	27-Dec-17	22-Mar-18	108						
L1590	E&M and Finishes work	0%	120	120	27-Dec-17	26-May-18	96						
L1600	CLP Power available (by CLP)	92.97%	32	455	21-Jun-16 A	21-Dec-17	227						
Lift at FLHY S/B													
L1370	Lift shaft & roof	84.72%	46	301	20-Sep-16 A	15-Jan-18	34						
L1380	Structural Laminated glass wall installation	0%	30	30	16-Jan-18	22-Feb-18	64						
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	16-Jan-18	22-Feb-18	34						
L1450	CLP Power available (by CLP)	93.22%	33	487	21-Jun-16 A	22-Dec-17	228						
Demolition of Existing Tai Hang Footbridge													
Crossing Fanling Highway Section													
Z2.THF.1090	Erect Temp platform for bridge demolition	0%	60	60	11-Dec-17	24-Feb-18	169						
New Tai Wo Footbridge													
General													
TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	04-Jan-18	255						
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	05-Jan-18		255						◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section													
TWFB1390	Finishes Work	26.25%	59	80	20-May-17 A	30-Jan-18	354						
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		30-Jan-18	354						30-Jan-18 ◆ Bridge Structure
TWSR-East FL Highway S/B Side Section													
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	22-Nov-17	16-Jan-18	152						
TWFB1550	TWP3 - Pre-bored H pile (6 nos)	0%	18	18	17-Jan-18	06-Feb-18	152						
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	07-Feb-18	14-May-18	152						
Lift at TWSR-W Side													
L1670	Lift shaft & roof	83.29%	59	353	21-Jun-16 A	30-Jan-18	174						
L1680	Structural Laminated glass wall installation	0%	30	30	31-Jan-18	09-Mar-18	217						
L1690	RC Link slab connect to bridge	0%	30	30	31-Jan-18	09-Mar-18	174						
L1730	Lift submission & ordering period	85.87%	52	368	02-Jul-16 A	22-Jan-18	254						
L1780	CLP Power available (by CLP)	85.19%	72	486	20-Aug-16 A	30-Jan-18	392						
Temporary Tai Wo Footbridge													
Construction Works													
TWFB-T1200	Erect temp column at new FLHY central divider	0%	7	7	20-Nov-17	27-Nov-17	93						
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	14	14	13-Dec-17	30-Dec-17	66						
TWFB-T1210	Erect Temp Bridge across FLHY	0%	6	6	02-Jan-18	08-Jan-18	66						
TWFB-T1220	Temp TW bridge complete & pedestrian diversion	0%	0	0		08-Jan-18	66						08-Jan-18 ◆ Temp TW bridge complete & pedestrian diversion
Demolition of Existing Tai Wo Footbridge													
Crossing Fanling Highway Section													
TWFB-DE1060	Erect Temp platform for bridge demolition	0%	20	20	13-Dec-17	08-Jan-18	66						
TWFB-DE1070	Demolish existing Tai Wo Footbridge	0%	5	5	09-Jan-18	13-Jan-18	66						
TWFB-DE1090	Demolish remaining columns	0%	2	2	15-Jan-18	16-Jan-18	66						
TWFB-DE1110	Demolish existing Tai Wo Footbridge complete (across FH)	0%	0	0		16-Jan-18	66						16-Jan-18 ◆ Demolish existing Tai Wo Footbridge complete (across FH)
Noise Barrier Along Fanling Highway S/B													
NB46A (Ch.5880-5935)-FH S/B Side													
Noise Barrier Works													
NB02200	NB46A - Sheet piling & Excavation	65%	21	60	03-Jun-17 A	13-Dec-17	759						
NB02210	NB46A - Footing & Wall Structure	31.03%	60	87	17-Jun-17 A	31-Jan-18	312						
NB02220	NB46A- backfilling	0%	50	50	01-Feb-18	07-Apr-18	312						
NB02230	NB46A - NB production	0%	45	45	01-Feb-18	17-Mar-18	404						
NB51 (Ch.5935-6055)-FH S/B Side													
Noise Barrier Works													
NB02300	NB51 ID1-3 (0-25m) - NB production	81.33%	14	75	20-May-17 A	03-Dec-17	508						
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410						
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02430	Precautionary Measure installation	0%	26	26	20-Nov-17	19-Dec-17	228						
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	20-Dec-17	22-Jan-18	275						
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	23-Jan-18	10-Apr-18	275						
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	20-Dec-17	03-Jan-18	228						
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 ris	0%	27	27	04-Jan-18	03-Feb-18	228						
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	05-Feb-18	03-Mar-18	228						
NB02590	NB53 (125-180m) - NB production	96.82%	14	440	20-May-16 A	03-Dec-17	508						
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410						
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02660	NB55 - NB production	93.24%	40	592	15-Jan-16 A	29-Dec-17	482						
NB02670	NB55 - NB post & panel installation	0%	5	5	30-Dec-17	05-Jan-18	389						
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A	03-Dec-17	508						
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410						
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02780	NB61 (0-50m) - Footing & Wall Structure	33.33%	20	30	08-Nov-17 A	12-Dec-17	66						
NB02790	NB61 (0-50m)- backfilling	0%	50	50	13-Dec-17	12-Feb-18	357						
NB02800	NB61 (0-50m) - NB production	0%	45	45	13-Dec-17	26-Jan-18	454						

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018	
								Nov		Dec		Jan	Feb
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	27-Jan-18	01-Feb-18	366						
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Nov-17	03-Jan-18	477						
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Jan-18	09-Jan-18	386						
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02920	NB61A (0-50m) - NB production	91.98%	45	561	20-Feb-16 A	03-Jan-18	477						
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Jan-18	09-Jan-18	386						
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	27-Jan-18	330						
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Jan-18	23-Feb-18	345						
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	27-Jan-18	13-Mar-18	408						
NB03040	NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	04-Dec-17	507						
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Dec-17	09-Dec-17	409						
Box Culvert ID3 Works													
VO58 Extension of ID3													
ID30140	Wing Wall Construction	0%	75	75	01-Dec-17*	03-Mar-18	116						
Fanling Highway Construction													
Drainage & Road Works													
Ch 5880-6740													
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 2)	0%	30	30	18-Dec-17	24-Jan-18	347						
RDZ41220	Z2 (CH5880-6740): Fanling Highway N/B - D&R works (lane 3)	0%	24	24	25-Oct-17 A	16-Dec-17	-2						
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	20%	24	30	25-Sep-17 A	16-Dec-17	-2						
RDZ41234	Z2 : FLHY N/B after Tai Wo Footbridge removal (Lane 2,3,4)	0%	90	90	17-Jan-18	10-May-18	66						
RDZ41240	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	0%	59	59	25-Oct-17 A	30-Jan-18	191						
RDZ41250	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 3)	0%	59	59	31-Jan-18	17-Apr-18	191						
Other Works													
Site Clearance & Demolition of Existing Structure													
Contract Condition													
MCLT1090	New MCLT - finishes works	88.41%	48	414	20-May-16 A	17-Jan-18	379						
MCLT1100	New MCLT completion	0%	0	0		17-Jan-18*	379						17-Jan-18* ♦ New MCLT completion
TCSS Works													
FVMS1 (Deleted by DWG HY/2012/06/SK/0866)													
TCSS1430	Predrilling (6no, 0.19m mini pile)	0%	12	12	04-Jan-18	17-Jan-18	301						
TCSS1432	Piling (6nos, 0.19m mini pile)	0%	0	0	25-Jan-18	25-Jan-18	295						
TCSS1434	Sheeting & excavation (4m)	0%	12	12	25-Jan-18	07-Feb-18	295						
TCSS1436	Fast lane footing - FVMS1 (CH6280, N/B)	0%	18	18	08-Feb-18	03-Mar-18	295						
ADS1													
TCSS1930	Predrilling (6no, 0.19m mini pile)	0%	12	12	18-Dec-17	03-Jan-18	265						
TCSS1940	Piling (6nos, 0.19m mini pile)	0%	18	18	04-Jan-18	24-Jan-18	265						
TCSS1950	Sheeting & excavation (4m)	0%	12	12	25-Jan-18	07-Feb-18	265						
TCSS1960	Fast lane footing - ADS1 (CH6400, N/B)	0%	18	18	08-Feb-18	03-Mar-18	265						
FADS1													
TCSS2040	Back filling & reinstatement road work (2m)	0%	23	18	11-Nov-17 A	15-Dec-17	374						
G54													
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		12-Dec-17	377						12-Dec-17 ♦ Slow lane footing - G54 (NB61)
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)													
Noise Barrier Along TWSR-West and Laying New Utilities													
NB64 & NB64A (Ch.6860-6920)-TWSR West Side													
Noise Barrier Works													
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	19-Aug-17 A	02-Jan-18	352						
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	03-Jan-18	21-Feb-18	352						
Noise Barrier Along Fanling Highway N/B													
NB60 (Ch.6450-6920)-FH N/B Side													
Noise Barrier Works													
NB02040	NB60 (300-408m)(NB60/26-34, 0.19m -44nos) Piling	0%	66	66	25-Jan-18	19-Apr-18	59						
NB02090	NB60 (408-468m)(NB60/35-39) & FADS1 Pre-drilling	0%	10	10	25-Jan-18	05-Feb-18	115						
NB02105	NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos)	0%	58	58	25-Jan-18	10-Apr-18	109						
NB66 (Ch.6920-6930)-FH N/B Side													
Noise Barrier Works													
NB02150	NB66 - Sheet piling & Excavation	0%	18	18	25-Jan-18	14-Feb-18	130						
NB02160	NB66 - Footing & Wall Structure	0%	21	21	15-Feb-18	14-Mar-18	130						
Bridge Construction													
Kau Lung Hang Vehicular Bridge													
KLH Bridge - West Ramp													
KLH.1290	West Ramp - Planting	0%	21	21	20-Nov-17	13-Dec-17	406						
KLH Bridge - Deck 1													
KLH.3430	Deck 1 - Planting	0%	21	21	20-Nov-17	13-Dec-17	406						
KLH Bridge - Deck 3													
KLH.3500	Deck 3 - Planting	0%	21	21	20-Nov-17	13-Dec-17	438						
KLH Bridge - East Ramp													
KLH.3590	East Ramp - Planting	0%	34	34	20-Nov-17	30-Dec-17	746						
KLH Bridge - Ramp R1													
Z2.KLH.3610	Ramp R1 - Steel roof	92.76%	11	152	19-Jan-17 A	01-Dec-17	416						
KLH Bridge - Ramp R2													
Z2.KLH.1550	Ramp R2 - Steel roof	86.44%	16	118	14-Mar-17 A	07-Dec-17	411						
KLH Bridge - Staircase S1													
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	0%	90	90	18-Jan-18	17-Apr-18	71						
Bridge Road Work													

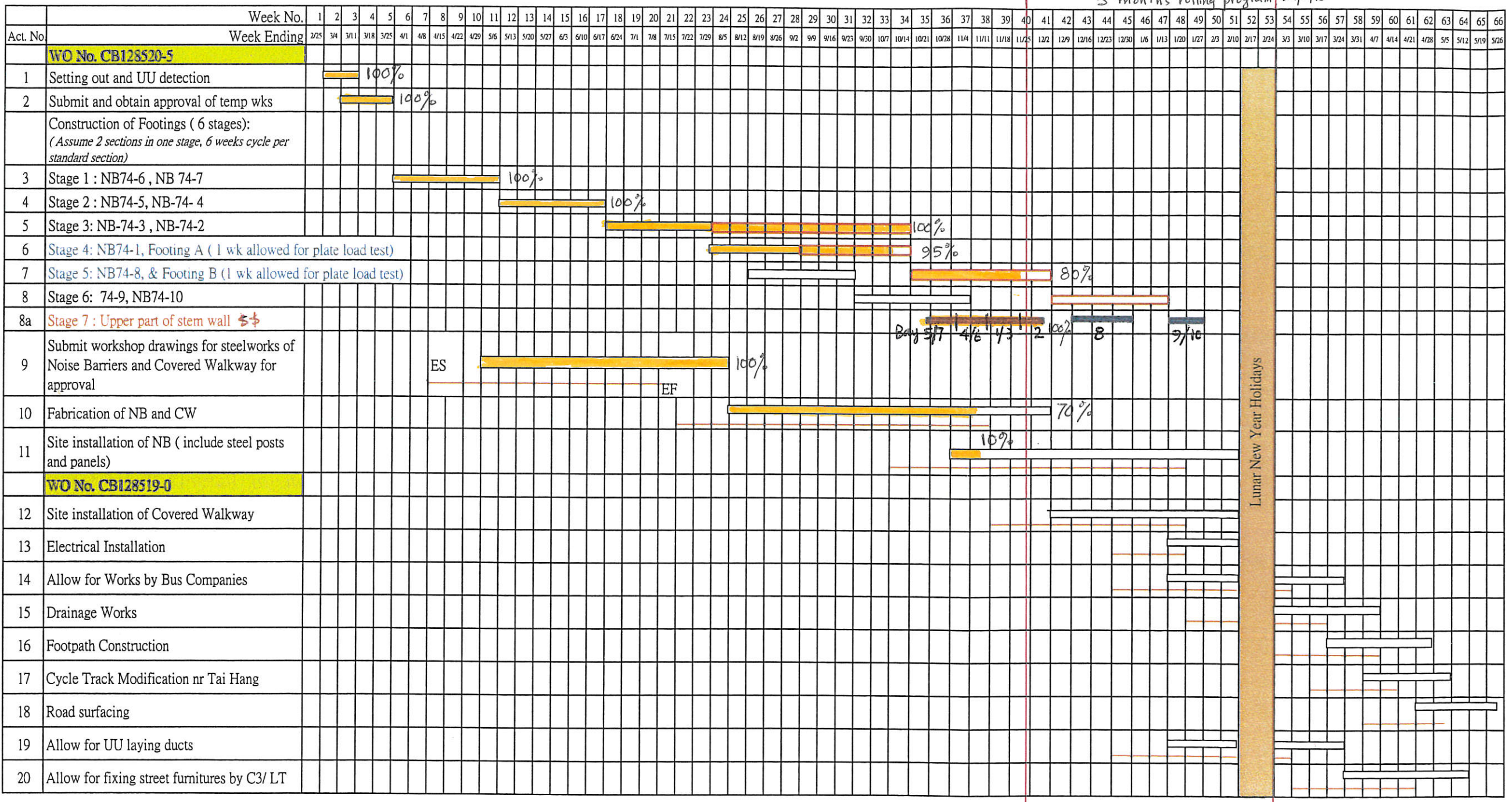
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018			
								Nov		Dec		Jan		Feb	
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Nov-17	19-Apr-18	307								
Lift at TWSR-W Side															
L01060	Lift shaft & roof	57.69%	22	52	03-Aug-17 A	14-Dec-17	305								
L01070	Structural Laminated glass wall installation	0%	11	11	15-Dec-17	29-Dec-17	305								
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Nov-17	20-Nov-17	338								
L01094	Lift submission & ordering period	92.29%	30	389	01-Aug-16 A	23-Dec-17	308								
L01100	Lift installation	0%	70	70	30-Dec-17	26-Mar-18	305								
L01130	Finishes work	0%	88	88	20-Nov-17	08-Mar-18	339								
L01140	CLP Power available (by CLP)	99.41%	3	505	04-Apr-16 A	22-Nov-17	499								
Lift at FLHY S/B															
L01230	Structural Laminated glass wall installation	0%	45	30	03-Oct-17 A	13-Jan-18	323								
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Nov-17	20-Nov-17	367								
L01260	Lift installation	0%	45	45	15-Jan-18	10-Mar-18	323								
L01290	Finishes work	0%	60	60	20-Nov-17	31-Jan-18	367								
L01300	CLP Power available (by CLP)	83.39%	94	566	04-Apr-16 A	21-Feb-18	414								
Signalized Junction															
Kau Lung Hang Vehicular Bridge															
KLH Bridge - West Ramp															
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	30-Nov-17*	23-Dec-17	391								
Noise Barrier Along Fanling Highway S/B															
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)															
Noise Barrier Works															
NB03090	NB62 (0-80m) - Footing & Wall Structure	84.78%	35	230	12-Dec-16 A	02-Jan-18	352								
NB03100	NB62 (0-80m) - backfilling	72.33%	44	159	27-Mar-17 A	12-Jan-18	378								
NB03110	NB62 (0-80m) - NB production	0%	45	45	03-Jan-18	16-Feb-18	433								
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	20-Nov-17	05-Dec-17	408								
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	20-Nov-17	03-Jan-18	477								
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	04-Jan-18	09-Jan-18	386								
NB03200	NB62 (110-170m) - backfilling	0%	20	20	20-Nov-17	12-Dec-17	402								
NB03210	NB62 (110-170m) - NB production	0%	45	45	20-Nov-17	03-Jan-18	477								
NB03220	NB62 (110-170m) - NB post & panel installation	0%	5	5	04-Jan-18	09-Jan-18	386								
NB70 (Ch.6910-6930)-FH S/B Side															
Noise Barrier Works															
NB03290	NB70- NB post & panel installation	0%	5	5	20-Nov-17	24-Nov-17	422								
Fanling Highway Construction															
Drainage & Road Works															
Ch 6740-6930															
RDZ20450	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 2)	0%	24	24	18-Dec-17	17-Jan-18	379								
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	0%	24	24	25-Oct-17 A	16-Dec-17	-2								
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	25-Sep-17 A	16-Dec-17	-2								
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	0%	24	24	20-Nov-17	16-Dec-17	403								
RDZ20500	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 3)	0%	24	24	31-Jan-18	02-Mar-18	344								
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)															
Bridge Construction															
New Ho Ka Yuen Footbridge															
TWSR-West/ FL Highway N/B Side Section															
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272	21-Nov-16 A	27-Jan-18	357								
HKY1520	VO11 - slope improvement work	0%	45	45	29-Jan-18	24-Mar-18	357								
TWSR-East FL Highway S/B Side Section															
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	23-Dec-17	429								
ZONE 4 (Ch. 7925 to 8700)															
Noise Barrier Along TWSR-West and Laying New Utilities															
Underground Utility Works															
DN450 DI Watermain "A" (Ch 1989-2529)															
DI0140	DN450 DI watermain laying (200-250m)	0%	30	30	20-Nov-17	23-Dec-17	199								
DI0150	DN450 DI watermain laying (250-300m)	0%	30	30	27-Dec-17	31-Jan-18	199								
DI0160	DN450 DI watermain laying (300-350m)	0%	30	30	01-Feb-18	10-Mar-18	199								
Noise Barrier Along Fanling Highway N/B															
NB75 (Ch.7930-8090)-FH N/B Side															
Noise Barrier Works															
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	20-Nov-17	24-Nov-17	284								
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	25-Nov-17	30-Nov-17	284								
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	20-Nov-17	24-Nov-17	289								
NB4260	NB75 - NB production (Ch8050-8090)	0%	45	45	20-Nov-17	03-Jan-18	312								
NB4270	NB75 - NB post & panel installation (Ch8050-8090)	0%	5	5	04-Jan-18	09-Jan-18	253								
NB4280	NB75 complete	0%	0	0		09-Jan-18	253						09-Jan-18 ◆ NB75 complete		
NB4580	NB75 backfilling complete	0%	0	0		19-Dec-17	45						19-Dec-17 ◆ NB75 backfilling complete		
NB4610	NB75 Drainage Works	78.33%	26	120	20-Jul-17 A	19-Dec-17	0								
NB77 (Ch.8090-8450)-FH N/B Side															
Noise Barrier Works															
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	50%	40	80	20-Jul-17 A	08-Jan-18	11								
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	13-Feb-18	10-Mar-18	41								
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	09-Jan-18	22-Feb-18	250								
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	62.5%	30	80	20-Sep-17 A	23-Dec-17	85								
NB4390	NB77 - NB production (Ch8190-8290)	0%	45	45	23-Dec-17	06-Feb-18	266								

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018		
								Nov		Dec		Jan		Feb
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	17.5%	66	80	03-Nov-17 A	07-Feb-18	65							
NB4450	NB77 - NB production (Ch8290-8390)	0%	45	45	08-Feb-18	24-Mar-18	220							
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	0%	50	50	20-Nov-17	19-Jan-18	39							
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	0%	50	50	20-Jan-18	22-Mar-18	39							
NB4620	NB77 Drainage Works	0%	100	100	09-Jan-18	14-May-18	11							
Bridge Construction														
New Wo Hop Shek Pedstrian & Cycle Bridge														
General														
WHS1105	W77A & W77B & backfilling work complete	0%	0	0		20-Nov-17	459							
20-Nov-17 ♦ W77A & W77B & backfilling work complete														
TWSR-West/ FL Highway N/B Side Section														
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	45.45%	30	55	20-Jun-17 A	23-Dec-17	187							
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	27-Dec-17	19-Jan-18	187							
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		19-Jan-18	187							
WHS2040	Potential VO for WHS Ramp modification (1st stage)	0%	0	0	20-Nov-17*		105							
WHS2100	Shop Drawing preparation, submission & approval	27.78%	65	90	20-Oct-17 A	06-Feb-18	100							
WHS2110	Material procurement & testing	0%	60	60	25-Nov-17	06-Feb-18	100							
WHS2120	Ramp fabrication	0%	72	72	07-Feb-18	10-May-18	100							
Crossing Fanling Highway Section														
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	20-Nov-17	31-Jan-18	363							
WHS1520	Remove railing	0%	12	12	01-Feb-18	14-Feb-18	363							
WHS1530	Bridge floor marking	0%	6	6	15-Feb-18	24-Feb-18	363							
Slip Road Y Construction														
Drainage & Road Works														
TWSR-East FL Highway S/B Side Section														
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4)	81.11%	17	90	20-Jul-17 A	08-Dec-17	0							
RDZ41070	Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)	0%	1	1	09-Dec-17	09-Dec-17	0							
VO - Wall 76A Construction														
Retaining Wall W76A														
TWSR-East FL Highway S/B Side Section														
W76A1050	Drainage work for Caltex access road	69.33%	46	150	20-Jul-17 A	15-Jan-18	263							
W76A1060	Road work for Caltex access road	0%	150	150	16-Jan-18	21-Jul-18	263							
Fanling Highway Construction														
Drainage & Road Works														
TWSR-East FL Highway S/B Side Section														
RDZ41102	Construct FH N/B Lane 1 (at NBZ2)	0%	20	20	20-Dec-17	15-Jan-18	45							
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	0%	20	20	16-Jan-18	07-Feb-18	45							
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	0%	20	20	08-Feb-18	06-Mar-18	45							
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	20	20	27-Jan-18	22-Feb-18	0							
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	30	30	20-Dec-17	26-Jan-18	0							
RDZ41131	Drainage work at central divider (Ch8100-8600)	22.67%	116	150	10-Oct-17 A	14-Apr-18	25							
Other Works														
Retaining Wall W78														
TWSR-East FL Highway S/B Side Section														
RWZ4.0900	Site Clearance	0%	12	12	11-Dec-17	23-Dec-17	0							
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site)	0%	35	35	27-Dec-17	06-Feb-18	0							
RWZ4.1010	Base slab & Wall (6-11m high)- RW78 (Ch.0-50)	0%	110	110	07-Feb-18	26-Jun-18	0							
Slope Works														
TWSR-East FL Highway S/B Side Section														
S1030	Slope S53-Fill ~5m	0%	110	110	20-Nov-17	07-Apr-18	184							
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Nov-17	08-Jan-18	383							
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Nov-17	08-Jan-18	383							
TCSS Works														
TCSS Pre-Construction Works														
TCSS0120	Prepare Shop Drawing-TCSS	0%	30	30	20-Nov-17	23-Dec-17	14							
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	23-Dec-17	13-Jan-18	157							
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	15-Jan-18	03-Feb-18	124							
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0	0		03-Feb-18	124							
TCSS0160	Raw material procurement	0%	180	180	23-Dec-17	21-Jun-18	20							
G34														
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		20-Nov-17	217							
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	27-Jan-18	06-Mar-18	131							
G35														
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-Nov-17	24-Nov-17	332							
DS50														
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Nov-17	23-Dec-17	247							
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	20-Nov-17	24-Nov-17	272							
FVMS2 (Deleted by RFI-138, Pending for VO)														
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Nov-17	23-Dec-17	307							
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-Nov-17	23-Dec-17	307							

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.
 Contract No. 02/HY/2015
 Works Order Nos: CB128519-0 & CB128520-5
 Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Revised Program Duration
 Programmed Duration
 Actual Progress
 Critical Path Activities
 Early Start & Early Finish
 Float = 3 weeks
 upper part of stem wall
 3 months rolling program

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program
03	28/9/2017	revise program of task 5-8



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 =432 M ³	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M ³	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M ³	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

\$\$ Breakdown of Item 8a (for 2 sections of stem wall) (upper part)

	Posts calendar days
Fwk	4
Re-bar	2
Concreting	1
Fix HD bolts	2
Remove Fwk	1
Total :	10 days

**CONSTRUCTION PROGRAMME OF
DECEMBER 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018			
								Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar
Contract Condition															
General															
Contract Condition															
Contract Condition															
KD14	KD-14 1523d) - S4: Achievement: Rd widening of Fanling Highway @	0%	0	0		20-Dec-17	174								20-Dec-17* ◆ KD-14 1523d) - S4: Achievement: Rd widening of Fanling Highway @ SBZ1 (expt.
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Dec-17		932								◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Dec-17*		-1084								◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Dec-17*		-886								◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Dec-17*		-751								◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)															
Noise Barrier Along Fanling Highway N/B															
NB43B (Ch.5640-5880)-FH N/B Side															
Noise Barrier Works															
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	0%	18	18	19-Jul-17 A	12-Jan-18	37								
NB01220	NB43B-1 - Footing & Wall Structure	0%	40	40	13-Jan-18	03-Mar-18	37								
NB01225	NB43B-1 (0-100m) - Drainage Works	0%	24	24	05-Mar-18	04-Apr-18	37								
NB01240	NB43B-1 - NB production	0%	45	45	03-Mar-18	17-Apr-18	398								
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	0%	18	18	16-Nov-17 A	12-Jan-18	61								
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	13-Jan-18	03-Mar-18	61								
NB01290	NB43B-2 - NB production	0%	45	45	03-Mar-18	17-Apr-18	398								
NB01320	NB43B-3 - Footing & Wall Structure	0%	40	40	25-Nov-17 A	07-Feb-18	103								
NB01340	NB43B-3 - NB production	0%	45	45	08-Feb-18	24-Mar-18	422								
Fanling Highway Construction															
Drainage & Road Works															
Ch 5640-5880															
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 4)	0%	20	20	04-Jan-18	26-Jan-18	194								
RDZ11060	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 3)	0%	20	20	17-Mar-18	13-Apr-18	194								
ZONE 2 (Ch. 5880 to 6930)															
General															
DRM Proposal															
DRM Proposal															
ADVZ20280	TTA for NB construction (Shift TWSR-W to Temp road)	0%	30	30	13-Jan-18	20-Feb-18	-22								
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	0%	249	249	21-Feb-18	20-Dec-18	-22								
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	18.39%	142	174	05-Oct-17 A	16-Jun-18	139								
Noise Barrier Along TWSR-West and Laying New Utilities															
NB54A (Ch.6290-6350)-TWSR West Side															
Noise Barrier Works															
NB00790	NB54A - NB post & panel installation	0%	5	5	15-Jan-18*	19-Jan-18	377								
Noise Barrier Along Fanling Highway N/B															
Site Clearance & Demolition of Existing Structure															
General															
ADVZ20130	Existing Utility cable disconnected & TTA for NB complete	0%	0	0	21-Feb-18		-22								◆ Existing Utility cable dis
ADVZ20140	Site Clearance (for NB Along FH N/B)	0%	30	30	13-Jan-18	20-Feb-18	-22								
NB43A (Ch.5880-6060)-FH N/B Side															
Noise Barrier Works															
NB001080	NB43A- ID1-2 piling (0.19m -18no)-1 rigs	0%	27	27	21-Feb-18	23-Mar-18	-22								
NB01520	NB43A-1 - Footing & Wall Structure	0%	60	60	25-Nov-17 A	06-Mar-18	179								
NB01540	NB43A-1 - NB production	0%	45	45	07-Mar-18	20-Apr-18	370								
NB01560	NB43A-2 (86.8-166.7m) - Sheet piling & Excavation	0%	18	18	21-Feb-18	13-Mar-18	29								
NB01570	NB43A-2 - Footing & Wall Structure	0%	60	60	14-Mar-18	29-May-18	29								
NB50 (Ch.6060-6130)-FH N/B Side															
Noise Barrier Works															
NB001150	NB50 -piling (0.19m -28no)	0%	42	42	21-Feb-18	14-Apr-18	-1								
NB50A (Ch.6130-6450)-FH N/B Side															
Noise Barrier Works															
NB01654	NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling	0%	20	20	21-Feb-18	15-Mar-18	-15								
NB60 (Ch.6450-6920)-FH N/B Side															
Noise Barrier Works															
NB01910	NB60 ID3-2 (174-192m) 0.19m -18nos Piling	0%	27	27	21-Feb-18	23-Mar-18	3								
NB01980	NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling	0%	72	72	21-Feb-18	21-May-18	17								
Bridge Construction															
New Tai Hang Footbridge															
General															
THBF0665	Diversion of existing pedestrian from existing to proposed footbridge	0%	1	1	03-Feb-18	03-Feb-18	-18								
TWSR-West/ FL Highway N/B Side Section															
THBF0620	Finishes Work	68.47%	64	203	27-Feb-17 A	10-Mar-18	337								
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		10-Mar-18	337								10-Mar-18 ◆ Bridge
Crossing Fanling Highway Section															
THBF0590	Finishes Work	0%	30	30	20-Dec-17	26-Jan-18	371								
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		26-Jan-18	371								26-Jan-18 ◆ Bridge Structure complete (THFB-Cross fanling
TWSR-East FL Highway S/B Side Section															

	Project ID: WP Rev 05 (1712)	Contract No. HY/2012/06			Date	Revision	C. A	
	Layout: 3 Month Rolling Program	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange			30-Jun-14	WP Rev 1A		
	Page 1 of 5	3 Month Rolling Program(20-Dec-17)			28-Aug-15	WP Rev 2		
					07-Apr-16	WP Rev 3		
					08-Nov-16	WP Rev 4		
			17-Aug-17	WP Rev 5				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018		
								Dec		Jan		Feb		Mar
THBF0470	THAB1 - pile cap & abutment wall	79.91%	45	224	21-Nov-16 A	16-Apr-18	230							
THBF0780	Modified existing column head of existing footbridge	0%	14	14	20-Dec-17	08-Jan-18	-18							
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	22	22	09-Jan-18	02-Feb-18	-18							
THBF0800	ABWF work	0%	30	30	03-Feb-18	13-Mar-18	335							
Lift at TWSR-W Side														
L1530	Structural Laminated glass wall installation	0%	30	30	20-Dec-17	26-Jan-18	268							
L1550	Metal cover on RC platform	0%	30	30	20-Dec-17	26-Jan-18	251							
L1555	Glass canopy on ground level	0%	30	30	27-Jan-18	06-Mar-18	341							
L1560	Lift installation (NF115)	0%	70	70	27-Jan-18	26-Apr-18	268							
L1590	E&M and Finishes work	0%	120	120	27-Jan-18	27-Jun-18	251							
L1600	CLP Power available (by CLP)	92.97%	32	455	21-Jun-16 A	20-Jan-18	423							
Lift at FLHY S/B														
L1370	Lift shaft & roof	84.72%	46	301	20-Sep-16 A	14-Feb-18	194							
L1380	Structural Laminated glass wall installation	0%	30	30	15-Feb-18	24-Mar-18	224							
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	15-Feb-18	24-Mar-18	194							
L1450	CLP Power available (by CLP)	93.22%	33	487	21-Jun-16 A	21-Jan-18	424							
Demolition of Existing Tai Hang Footbridge														
TWSR-West/ FL Highway N/B Side Section														
Z2.THF.1120	Demolish existing Tai Hang footbridge (TWSR-W side)	0%	60	60	05-Feb-18	23-Apr-18	278							
Crossing Fanling Highway Section														
Z2.THF.1090	Erect Temp platform for bridge demolition	50%	30	60	18-Dec-17 A	26-Jan-18	-12							
Z2.THF.1100	Demolish existing Tai Hang Footbridge	0%	2	2	03-Feb-18	05-Feb-18	-18							
Z2.THF.1110	Removal of temporary platform	0%	4	4	06-Feb-18	09-Feb-18	-16							
Z2.THF.1130	Demolish remaining column	0%	6	6	06-Feb-18	12-Feb-18	-18							
New Tai Wo Footbridge														
General														
TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	03-Feb-18	229							
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	05-Feb-18		229							◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section														
TWFB1390	Finishes Work	26.25%	59	80	20-May-17 A	05-Mar-18	328							
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		05-Mar-18	328							05-Mar-18 ◆ Bridge Stru
TWSR-East FL Highway S/B Side Section														
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	20-Dec-17	13-Feb-18	128							
TWFB1550	TWP3 - Pre-bored H pile (6 nos)	0%	18	18	14-Feb-18	09-Mar-18	128							
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	10-Mar-18	12-Jun-18	128							
Lift at TWSR-W Side														
L1670	Lift shaft & roof	90.37%	34	353	21-Jun-16 A	31-Jan-18	173							
L1680	Structural Laminated glass wall installation	0%	30	30	01-Feb-18	10-Mar-18	216							
L1690	RC Link slab connect to bridge	0%	30	30	01-Feb-18	10-Mar-18	173							
L1700	Metal cover on RC platform	0%	30	30	12-Mar-18	19-Apr-18	173							
L1730	Lift submission & ordering period	92.93%	26	368	02-Jul-16 A	22-Jan-18	254							
L1780	CLP Power available (by CLP)	91.36%	42	486	20-Aug-16 A	30-Jan-18	392							
Temporary Tai Wo Footbridge														
Construction Works														
TWFB-T1200	Erect temp column at new FLHY central divider	0%	7	7	04-Jan-18*	11-Jan-18	53							
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	7	7	04-Jan-18	11-Jan-18	53							
TWFB-T1210	Erect Temp Bridge across FLHY	0%	11	11	12-Jan-18	24-Jan-18	53							
TWFB-T1220	Temp TW bridge complete & pedestrian diversion	0%	0	0		24-Jan-18	53							24-Jan-18 ◆ Temp TW bridge complete & pedestrian diversion
Demolition of Existing Tai Wo Footbridge														
Crossing Fanling Highway Section														
TWFB-DE1060	Erect Temp platform for bridge demolition	0%	10	10	13-Jan-18	24-Jan-18	53							
TWFB-DE1070	Demolish existing Tai Wo Footbridge	0%	4	4	25-Jan-18	29-Jan-18	53							
TWFB-DE1090	Demolish remaining columns	0%	2	2	30-Jan-18	31-Jan-18	53							
TWFB-DE1110	Demolish existing Tai Wo Footbridge complete (across FH)	0%	0	0		31-Jan-18	53							31-Jan-18 ◆ Demolish existing Tai Wo Footbridge comp
Noise Barrier Along Fanling Highway S/B														
NB51 (Ch.5935-6055)-FH S/B Side														
Noise Barrier Works														
NB02300	NB51 ID1-3 (0-25m) - NB production	81.33%	14	75	20-May-17 A	02-Jan-18	478							
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	03-Jan-18	08-Jan-18	387							
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02430	Precautionary Measure installation	0%	26	26	20-Dec-17	22-Jan-18	202							
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	23-Jan-18	24-Feb-18	249							
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	26-Feb-18	11-May-18	249							
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	23-Jan-18	02-Feb-18	202							
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rias	0%	27	27	03-Feb-18	09-Mar-18	202							
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	10-Mar-18	07-Apr-18	202							
NB02590	NB53 (125-180m) - NB production	96.82%	14	440	20-May-16 A	02-Jan-18	478							
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	03-Jan-18	08-Jan-18	387							
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02660	NB55 - NB production	93.24%	40	592	15-Jan-16 A	28-Jan-18	452							
NB02670	NB55 - NB post & panel installation	0%	5	5	29-Jan-18	02-Feb-18	365							
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018		
												Dec	Jan	Feb
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A	02-Jan-18	478							
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Jan-18	08-Jan-18	387							
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02780	NB61 (0-50m) - Footing & Wall Structure	66.67%	10	30	08-Nov-17 A	03-Jan-18	53							
NB02790	NB61 (0-50m)- backfilling	0%	50	50	04-Jan-18	06-Mar-18	341							
NB02800	NB61 (0-50m) - NB production	0%	45	45	04-Jan-18	17-Feb-18	432							
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	20-Feb-18	24-Feb-18	349							
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Dec-17	02-Feb-18	447							
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360							
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02920	NB61A (0-50m) - NB production	91.98%	45	561	20-Feb-16 A	02-Feb-18	447							
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360							
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	02-Mar-18	304							
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	03-Mar-18	26-Mar-18	319							
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	03-Mar-18	16-Apr-18	374							
NB03040	NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	03-Jan-18	477							
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Jan-18	09-Jan-18	386							
Box Culvert ID3 Works														
VO58 Extension of ID3														
ID30140	Wing Wall Construction	0%	75	75	20-Dec-17*	22-Mar-18	100							
Fanling Highway Construction														
Drainage & Road Works														
Ch 5880-6740														
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 2)	0%	30	30	13-Jan-18	20-Feb-18	327							
RDZ41220	Z2 (CH5880-6740): Fanling Highway N/B - D&R works (lane 3)	25%	18	24	25-Oct-17 A	12-Jan-18	-22							
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	40%	18	30	25-Sep-17 A	12-Jan-18	-22							
RDZ41232	Z2 : FLHY N/B after Tai Hang Footbridge removal (Lane 2,3,4)	0%	90	90	13-Feb-18	07-Jun-18	267							
RDZ41234	Z2 : FLHY N/B after Tai Wo Footbridge removal (Lane 2,3,4)	0%	90	90	01-Feb-18	26-May-18	53							
RDZ41240	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	49.15%	30	59	25-Oct-17 A	26-Jan-18	194							
RDZ41250	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 3)	0%	59	59	27-Jan-18	13-Apr-18	194							
Other Works														
Site Clearance & Demolition of Existing Structure														
Contract Condition														
MCLT1090	New MCLT - finishes works	88.41%	48	414	20-May-16 A	20-Feb-18	353							
MCLT1100	New MCLT completion	0%	0	0		20-Feb-18	353					20-Feb-18* ◆ New MCLT completion		
TCSS Works														
FVMS1 (Deleted by DWG HY/2012/06/SK/0866)														
TCSS1430	Predrilling (6no, 0.19m mini pile)	0%	12	12	13-Jan-18	26-Jan-18	293							
TCSS1432	Piling (6nos, 0.19m mini pile)	0%	0	0	03-Feb-18	03-Feb-18	287							
TCSS1434	Sheeting & excavation (4m)	0%	12	12	03-Feb-18	20-Feb-18	287							
TCSS1436	Fast lane footing - FVMS1 (CH6280, N/B)	0%	18	18	21-Feb-18	13-Mar-18	287							
TCSS1438	Back filling & reinstatement road work (2m)	0%	18	18	14-Mar-18	07-Apr-18	287							
ADS1														
TCSS1940	Piling (6nos, 0.19m mini pile)	0%	18	18	13-Jan-18	02-Feb-18	257							
TCSS1950	Sheeting & excavation (4m)	0%	12	12	03-Feb-18	20-Feb-18	257							
TCSS1960	Fast lane footing - ADS1 (CH6400, N/B)	0%	18	18	21-Feb-18	13-Mar-18	257							
TCSS1970	Back filling & reinstatement road work (2m)	0%	18	18	14-Mar-18	07-Apr-18	257							
FADS1														
TCSS2040	Back filling & reinstatement road work (2m)	0%	23	18	11-Nov-17 A	18-Jan-18	348							
G54														
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		03-Jan-18	361					03-Jan-18* ◆ Slow lane footing - G54 (NB61)		
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)														
Noise Barrier Along TWSR-West and Laying New Utilities														
NB64 & NB64A (Ch.6860-6920)-TWSR West Side														
Noise Barrier Works														
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	20-Dec-17	07-Feb-18	361							
Noise Barrier Along Fanling Highway N/B														
NB60 (Ch.6450-6920)-FH N/B Side														
Noise Barrier Works														
NB02040	NB60 (300-408m)(NB60/26-34, 0.19m -44nos) Piling	0%	66	66	21-Feb-18	14-May-18	39							
NB02090	NB60 (408-468m)(NB60/35-39) & FADS1 Pre-drilling	0%	10	10	21-Feb-18	03-Mar-18	95							
NB02105	NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos)	0%	58	58	21-Feb-18	04-May-18	89							
NB66 (Ch.6920-6930)-FH N/B Side														
Noise Barrier Works														
NB02150	NB66 - Sheet piling & Excavation	0%	18	18	21-Feb-18	13-Mar-18	110							
NB02160	NB66 - Footing & Wall Structure	0%	21	21	14-Mar-18	11-Apr-18	110							
Bridge Construction														
Kau Lung Hang Vehicular Bridge														
KLH Bridge - West Ramp														
KLH.1290	West Ramp - Planting	0%	21	21	20-Dec-17	16-Jan-18	380							
KLH Bridge - Deck 1														
KLH.3430	Deck 1 - Planting	0%	21	21	20-Dec-17	16-Jan-18	380							
KLH Bridge - Deck 3														
KLH.3500	Deck 3 - Planting	0%	21	21	20-Dec-17	16-Jan-18	412							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018			
								Dec		Jan		Feb		Mar	
KLH Bridge - East Ramp															
KLH.3590	East Ramp - Planting	0%	34	34	20-Dec-17	31-Jan-18	720								
KLH Bridge - Ramp R1															
Z2.KLH.3610	Ramp R1 - Steel roof	92.76%	11	152	19-Jan-17 A	04-Jan-18	390								
KLH Bridge - Ramp R2															
Z2.KLH.1550	Ramp R2 - Steel roof	86.44%	16	118	14-Mar-17 A	10-Jan-18	385								
KLH Bridge - Staircase S1															
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	0%	90	90	11-Feb-18	11-May-18	47								
Bridge Road Work															
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Dec-17	21-May-18	281								
Lift at TWSR-W Side															
L01070	Structural Laminated glass wall installation	0%	11	11	20-Dec-17	04-Jan-18	301								
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Dec-17	20-Dec-17	312								
L01094	Lift submission & ordering period	98.97%	4	389	01-Aug-16 A	23-Dec-17	308								
L01100	Lift installation	0%	70	70	05-Jan-18	03-Apr-18	301								
L01130	Finishes work	0%	88	88	20-Dec-17	12-Apr-18	313								
L01140	CLP Power available (by CLP)	99.41%	3	505	04-Apr-16 A	22-Dec-17	469								
Lift at FLHY S/B															
L01230	Structural Laminated glass wall installation	0%	45	30	03-Oct-17 A	13-Feb-18	297								
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Dec-17	20-Dec-17	341								
L01260	Lift installation	0%	45	45	14-Feb-18	14-Apr-18	297								
L01290	Finishes work	0%	60	60	20-Dec-17	06-Mar-18	341								
L01300	CLP Power available (by CLP)	83.39%	94	566	04-Apr-16 A	23-Mar-18	384								
Signalized Junction															
Kau Lung Hang Vehicular Bridge															
KLH Bridge - West Ramp															
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Dec-17*	16-Jan-18	374								
Noise Barrier Along Fanling Highway S/B															
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)															
Noise Barrier Works															
NB03090	NB62 (0-80m) - Footing & Wall Structure	84.78%	35	230	12-Dec-16 A	01-Feb-18	326								
NB03100	NB62 (0-80m) - backfilling	72.33%	44	159	27-Mar-17 A	12-Feb-18	352								
NB03110	NB62 (0-80m) - NB production	0%	45	45	02-Feb-18	18-Mar-18	403								
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	19-Mar-18	23-Mar-18	326								
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	20-Dec-17	08-Jan-18	382								
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	20-Dec-17	02-Feb-18	447								
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360								
NB03200	NB62 (110-170m) - backfilling	0%	20	20	20-Dec-17	15-Jan-18	376								
NB03210	NB62 (110-170m) - NB production	0%	45	45	20-Dec-17	02-Feb-18	447								
NB03220	NB62 (110-170m) - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360								
NB70 (Ch.6910-6930)-FH S/B Side															
Noise Barrier Works															
NB03290	NB70- NB post & panel installation	0%	5	5	11-Dec-17 A	27-Dec-17	396								
Fanling Highway Construction															
Drainage & Road Works															
Ch 6740-6930															
RDZ20450	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 2)	0%	24	24	13-Jan-18	09-Feb-18	359								
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	25%	18	24	25-Oct-17 A	12-Jan-18	-22								
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	25%	18	24	25-Sep-17 A	12-Jan-18	-22								
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	0%	30	24	25-Oct-17 A	26-Jan-18	371								
RDZ20500	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 3)	0%	24	24	27-Jan-18	27-Feb-18	347								
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)															
Bridge Construction															
New Ho Ka Yuen Footbridge															
TWSR-West/ FL Highway N/B Side Section															
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272	21-Nov-16 A	02-Mar-18	331								
HKY1520	VO11 - slope improvement work	0%	45	45	03-Mar-18	28-Apr-18	331								
TWSR-East FL Highway S/B Side Section															
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	26-Jan-18	403								
ZONE 4 (Ch. 7925 to 8700)															
Noise Barrier Along TWSR-West and Laying New Utilities															
Underground Utility Works															
DN450 DI Watermain "A" (Ch 1989-2529)															
DI0140	DN450 DI watermain laying (200-250m)	86.67%	4	30	20-Nov-17 A	23-Dec-17	199								
DI0150	DN450 DI watermain laying (250-300m)	0%	30	30	27-Dec-17	31-Jan-18	199								
DI0160	DN450 DI watermain laying (300-350m)	0%	30	30	01-Feb-18	10-Mar-18	199								
DI0170	DN450 DI watermain laying (350-400m)	0%	30	30	12-Mar-18	19-Apr-18	199								
Noise Barrier Along Fanling Highway N/B															
NB75 (Ch.7930-8090)-FH N/B Side															
Noise Barrier Works															
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	20-Dec-17	27-Dec-17	258								
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	28-Dec-17	03-Jan-18	258								
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	20-Dec-17	27-Dec-17	263								
NB4260	NB75 - NB production (Ch8050-8090)	66.67%	15	45	20-Nov-17 A	03-Jan-18	312								
NB4270	NB75 - NB post & panel installation (Ch8050-8090)	0%	5	5	04-Jan-18	09-Jan-18	253								
NB4280	NB75 complete	0%	0	0			249								

13-Jan-18 ◆ NB75 complete

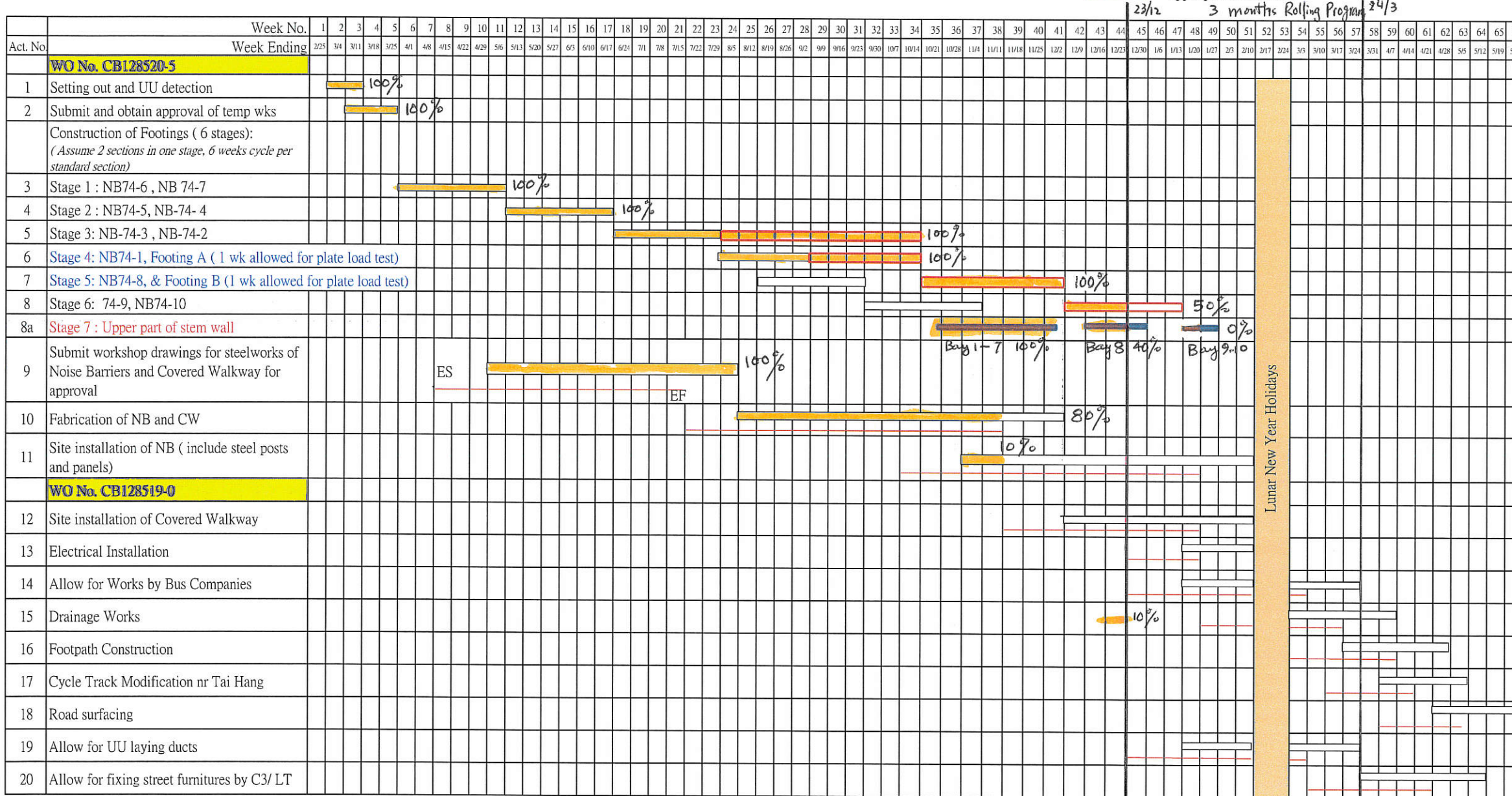
CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

	Revised Program Duration	Rev	Date	Description
	Programmed Duration	00	28/02/17	initial issue
	Actual Progress	01	29/03/17	refer RE's comments
	Critical Path Activities	02	22/5/17	add plate load test program
	Early Start & Early Finish	03	28/9/2017	revise program of task 5-8
	Float = 3 weeks			
	upper part of stem wall			



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 = 432 M ³	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M ³	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M ³	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M ³	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

\$\$ Breakdown of Item 8a (for 2 sections of stem wall)

	Posts calendar days
Fwk	4
Re-bar	2
Concreting	1
Fix HD bolts	2
Remove Fwk	1
Total :	10 days

**CONSTRUCTION PROGRAMME OF
JANUARY 2018**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018				
								2017	Jan	Feb	Mar	Apr
Contract Condition												
General												
Contract Condition												
Contract Condition												
KD14	KD-14 1523d) - S4: Achievement: Rd widening of Fanling Highway @	0%	0	0		20-Jan-18*	143					
KD18	KD-18(1380d) -N4: Achieve: Eastern Rd widening works at Fanling	0%	0	0		14-Apr-18*	0					
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Jan-18		901					
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Jan-18*		-1115					
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Jan-18*		-917					
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Jan-18*		-782					
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
NB43B (Ch.5640-5880)-FH N/B Side												
Noise Barrier Works												
NB01220	NB43B-1 - Footing & Wall Structure	15%	34	40	08-Jan-18 A	03-Mar-18	37					
NB01225	NB43B-1 (0-100m) - Drainage Works	0%	24	24	05-Mar-18	04-Apr-18	37					
NB01230	NB43B-1 - backfilling	0%	12	12	06-Apr-18	19-Apr-18	127					
NB01240	NB43B-1 - NB production	0%	45	45	03-Mar-18	17-Apr-18	398					
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	13-Jan-18 A	10-Mar-18	53					
NB01275	NB43B-2 (100-200m) - Drainage Works	0%	24	24	06-Apr-18	04-May-18	37					
NB01290	NB43B-2 - NB production	0%	45	45	10-Mar-18	24-Apr-18	391					
NB01320	NB43B-3 - Footing & Wall Structure	65.57%	21	61	25-Nov-17 A	13-Feb-18	72					
NB01340	NB43B-3 - NB production	0%	45	45	14-Feb-18	30-Mar-18	416					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADV220284	Demolish existing TW bridge & TH bridge	0%	10	10	08-Feb-18*	22-Feb-18	1					
ADV220285	Road work for Lane 2,3,4 from TH to TW bridge	0%	19	19	23-Feb-18*	16-Mar-18	1					
ADV220286	Road work for TWSR-W to FLHY transition	0%	7	7	17-Mar-18	24-Mar-18	1					
ADV220288	TTA stage 3 - All N/B NB working space available	0%	0	0	26-Mar-18		1					
ADV220290	NB at FLHY N/B construction Period (Zone 2)	15.33%	254	300	20-Nov-17 A	28-Nov-18	-3					
ADV220310	NB at FLHY N/B construction Period (Zone 1)	42.44%	118	205	05-Oct-17 A	16-Jun-18	79					
Noise Barrier Along TWSR-West and Laying New Utilities												
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00790	NB54A - NB post & panel installation	0%	10	5	15-Jan-18 A	31-Jan-18	367					
Noise Barrier Along Fanling Highway N/B												
NB43A (Ch.5880-6060)-FH N/B Side												
Noise Barrier Works												
NB001080	NB43A- ID1-2 piling (0.19m -18no)-1 rigs	0%	18	18	20-Jan-18	09-Feb-18	69					
NB001090	NB43A - ID1-2 Sheet piling & Excavation	0%	10	10	12-Mar-18	22-Mar-18	53					
NB001100	NB43A - ID1-2 Footing & Wall Structure	0%	40	40	23-Mar-18	14-May-18	53					
NB01520	NB43A-1 - Footing & Wall Structure	55.56%	36	81	25-Nov-17 A	06-Mar-18	2					
NB01540	NB43A-1 - NB production	0%	45	45	07-Mar-18	20-Apr-18	370					
NB01560	NB43A-2 (86.8-166.7m) - Sheet piling & Excavation	0%	18	18	07-Mar-18	27-Mar-18	2					
NB01570	NB43A-2 - Footing & Wall Structure	0%	60	60	28-Mar-18	12-Jun-18	2					
NB50 (Ch.6060-6130)-FH N/B Side												
Noise Barrier Works												
NB001150	NB50 -piling (0.19m -28no)	0%	28	28	26-Mar-18	02-May-18	7					
NB50A (Ch.6130-6450)-FH N/B Side												
Noise Barrier Works												
NB01606	NB50A (0-108m)(NB50A/1-11, 0.19m -60nos) Piling (s3)	0%	60	60	26-Mar-18	09-Jun-18	55					
NB01654	NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling	0%	20	20	20-Jan-18	12-Feb-18	67					
NB01656	NB50A (132-228m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos)	0%	52	52	26-Mar-18	31-May-18	35					
NB01706	NB50A (228-309m)(NB50A/S4-S5, 0.19m -18nos) & ADS1 (8nos)Piling	0%	26	26	26-Mar-18	28-Apr-18	1					
NB60 (Ch.6450-6920)-FH N/B Side												
Noise Barrier Works												
NB01840	NB60-2 (63-174m)(NB60/5-15, 0.19m -64nos) Piling	7.81%	59	64	15-Jan-18 A	06-Apr-18	30					
NB01910	NB60 ID3-2 (174-192m) 0.19m -18nos Piling	0%	18	18	20-Jan-18	09-Feb-18	3					
NB01920	NB60-ID3-2 ((174-192m) - Sheet piling & Excavation	0%	18	18	10-Feb-18	06-Mar-18	3					
NB01930	NB60-ID3-2 - Footing & Wall Structure	0%	50	50	07-Mar-18	09-May-18	3					
NB01980	NB60 (192-300m)(NB60/16-25, 0.19m -40nos) Piling	0%	40	40	10-Feb-18	04-Apr-18	38					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0665	Diversion of existing pedestrian from existing to proposed footbridge	0%	1	1	03-Feb-18	03-Feb-18	1					
TWSR-West/ FL Highway N/B Side Section												

	Project ID: WP Rev 05 (1801)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Jan-18)		Date	Revision	C. A
	Layout: 3 Month Rolling Program			30-Jun-14	WP Rev 1A	
	Page 1 of 5			28-Aug-15	WP Rev 2	
				07-Apr-16	WP Rev 3	
				08-Nov-16	WP Rev 4	
	17-Aug-17	WP Rev 5				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018						
								2017	Jan	Feb	Mar	Apr		
THBF0620	Finishes Work	79.15%	64	307	27-Feb-17 A	12-Apr-18	313							
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		12-Apr-18	313							12-Apr-18 ◆ Bridge
Crossing Fanling Highway Section														
THBF0590	Finishes Work	0%	60	60	20-Jan-18	07-Apr-18	317							
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		07-Apr-18	317							07-Apr-18 ◆ Bridge St
TWSR-East FL Highway S/B Side Section														
THBF0470	THAB1 - pile cap & abutment wall	88.97%	45	408	21-Nov-16 A	15-May-18	206							
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	6	6	27-Jan-18*	02-Feb-18	0							
THBF0800	ABWF work	0%	30	30	03-Feb-18	13-Mar-18	335							
Lift at TWSR-W Side														
L1530	Structural Laminated glass wall installation	0%	30	30	20-Jan-18	27-Feb-18	244							
L1550	Metal cover on RC platform	0%	30	30	20-Jan-18	27-Feb-18	227							
L1555	Glass canopy on ground level	0%	30	30	28-Feb-18	07-Apr-18	317							
L1560	Lift installation (NF115)	0%	70	70	28-Feb-18	26-May-18	244							
L1590	E&M and Finishes work	0%	120	120	28-Feb-18	26-Jul-18	227							
L1600	CLP Power available (by CLP)	94.47%	32	579	21-Jun-16 A	20-Feb-18	392							
Lift at FLHY S/B														
L1370	Lift shaft & roof	88.89%	46	414	20-Sep-16 A	17-Mar-18	127							
L1380	Structural Laminated glass wall installation	0%	30	30	19-Mar-18	26-Apr-18	157							
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	19-Mar-18	26-Apr-18	127							
L1450	CLP Power available (by CLP)	89.48%	61	580	21-Jun-16 A	21-Mar-18	313							
Demolition of Existing Tai Hang Footbridge														
TWSR-West/ FL Highway N/B Side Section														
Z2.THF.1120	Demolish existing Tai Hang footbridge (TWSR-W side)	0%	10	10	05-Feb-18	15-Feb-18	328							
Crossing Fanling Highway Section														
Z2.THF.1100	Demolish existing Tai Hang Footbridge	0%	2	2	03-Feb-18	05-Feb-18	1							
Z2.THF.1110	Removal of temporary platform	0%	5	5	06-Feb-18	10-Feb-18	8							
Z2.THF.1130	Demolish remaining column	0%	6	6	06-Feb-18	12-Feb-18	1							
New Tai Wo Footbridge														
General														
TWFB1090	Steel Bridge prefabrication (TWFB)	91.49%	37	435	15-Aug-16 A	07-Mar-18	205							
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	08-Mar-18		205							◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section														
TWFB1390	Finishes Work	75.11%	59	237	20-May-17 A	06-Apr-18	304							
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		06-Apr-18	304							06-Apr-18 ◆ Bridge Str
Crossing Fanling Highway Section														
TWFB1440	TWP2 - Pile cap	0%	30	30	26-Mar-18	04-May-18	101							
TWSR-East FL Highway S/B Side Section														
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	20-Jan-18	16-Mar-18	104							
TWFB1550	TWP3 - Pre-bored H pile (6 nos)	0%	18	18	17-Mar-18	11-Apr-18	104							
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	12-Apr-18	12-Jul-18	104							
Lift at TWSR-W Side														
L1670	Lift shaft & roof	95.4%	22	478	21-Jun-16 A	14-Feb-18	161							
L1680	Structural Laminated glass wall installation	0%	30	30	15-Feb-18	24-Mar-18	204							
L1690	RC Link slab connect to bridge	0%	30	30	15-Feb-18	24-Mar-18	161							
L1700	Metal cover on RC platform	0%	30	30	26-Mar-18	04-May-18	161							
L1730	Lift submission & ordering period	94.36%	26	461	02-Jul-16 A	22-Feb-18	230							
L1780	CLP Power available (by CLP)	92.06%	42	529	20-Aug-16 A	02-Mar-18	361							
Temporary Tai Wo Footbridge														
Construction Works														
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	8	7	15-Jan-18 A	29-Jan-18	7							
TWFB-T1210	Erect Temp Bridge across FLHY	0%	11	11	24-Jan-18	05-Feb-18	7							
TWFB-T1220	Temp TW bridge complete & pedestrian diversion	0%	0	0		05-Feb-18	7							05-Feb-18 ◆ Temp TW bridge complete & pedestrian diversion
Demolition of Existing Tai Wo Footbridge														
Crossing Fanling Highway Section														
TWFB-DE1060	Erect Temp platform for bridge demolition	0%	10	10	01-Feb-18	12-Feb-18	1							
TWFB-DE1070	Demolish existing Tai Wo Footbridge	0%	4	4	13-Feb-18	20-Feb-18	1							
TWFB-DE1090	Demolish remaining columns	0%	2	2	21-Feb-18	22-Feb-18	1							
TWFB-DE1110	Demolish existing Tai Wo Footbridge complete (across FH)	0%	0	0		22-Feb-18	1							22-Feb-18 ◆ Demolish existing Tai Wo Footbridge complete (ac
Noise Barrier Along Fanling Highway S/B														
NB51 (Ch.5935-6055)-FH S/B Side														
Noise Barrier Works														
NB02300	NB51 ID1-3 (0-25m) - NB production	93.86%	14	228	20-May-17 A	02-Feb-18	447							
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360							
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02430	Precautionary Measure installation	0%	26	26	20-Jan-18	22-Feb-18	178							
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	23-Feb-18	24-Mar-18	215							
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	26-Mar-18	09-Jun-18	215							
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	23-Feb-18	06-Mar-18	178							
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	07-Mar-18	11-Apr-18	178							
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	12-Apr-18	07-May-18	178							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018					
								2017	Jan	Feb	Mar	Apr	
NB02590	NB53 (125-180m) - NB production	97.64%	14	593	20-May-16 A	02-Feb-18	447						
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360						
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02660	NB55 - NB production	94.63%	40	745	15-Jan-16 A	28-Feb-18	421						
NB02670	NB55 - NB post & panel installation	0%	5	5	01-Mar-18	06-Mar-18	341						
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02730	NB56 - NB production	97.95%	14	683	20-Feb-16 A	02-Feb-18	447						
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18	360						
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02790	NB61 (0-50m)- backfilling	0%	50	50	20-Jan-18	22-Mar-18	327						
NB02800	NB61 (0-50m) - NB production	0%	45	45	20-Jan-18	05-Mar-18	416						
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	06-Mar-18	10-Mar-18	337						
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Jan-18	05-Mar-18	416						
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	06-Mar-18	10-Mar-18	337						
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02920	NB61A (0-50m) - NB production	93.7%	45	714	20-Feb-16 A	05-Mar-18	416						
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	06-Mar-18	10-Mar-18	337						
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	93.34%	57	856	01-Apr-15 A	03-Apr-18	280						
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	04-Apr-18	27-Apr-18	295						
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	04-Apr-18	18-May-18	342						
NB03040	NB61A (75-190m) - NB production	97.81%	15	684	20-Feb-16 A	03-Feb-18	446						
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Feb-18	09-Feb-18	359						
Fanling Highway Construction													
Drainage & Road Works													
Ch 5880-6740													
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 2)	0%	30	30	20-Jan-18	27-Feb-18	16						
RDZ41240	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	61.04%	30	77	25-Oct-17 A	27-Feb-18	137						
RDZ41250	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 3)	0%	60	60	28-Feb-18	14-May-18	137						
Other Works													
Site Clearance & Demolition of Existing Structure													
Contract Condition													
MCLT1090	New MCLT - finishes works	90.73%	48	518	20-May-16 A	20-Mar-18	329						
MCLT1100	New MCLT completion	0%	0	0		20-Mar-18	329						20-Mar-18* ◆ New MCLT completion
TCSS Works													
FVMS1 (Deleted by DWG HY/2012/06/SK/0866)													
TCSS1430	Predrilling (6no, 0.19m mini pile)	0%	12	12	20-Jan-18	02-Feb-18	287						
TCSS1432	Piling (6nos, 0.19m mini pile)	0%	0	0	10-Feb-18	10-Feb-18	281						
TCSS1434	Sheeting & excavation (4m)	0%	12	12	10-Feb-18	27-Feb-18	281						
TCSS1436	Fast lane footing - FVMS1 (CH6280, N/B)	0%	18	18	28-Feb-18	20-Mar-18	281						
TCSS1438	Back filling & reinstatement road work (2m)	0%	18	18	21-Mar-18	14-Apr-18	281						
ADS1													
TCSS1940	Piling (6nos, 0.19m mini pile)	0%	18	18	20-Jan-18	09-Feb-18	251						
TCSS1950	Sheeting & excavation (4m)	0%	12	12	10-Feb-18	27-Feb-18	251						
TCSS1960	Fast lane footing - ADS1 (CH6400, N/B)	0%	18	18	28-Feb-18	20-Mar-18	251						
TCSS1970	Back filling & reinstatement road work (2m)	0%	18	18	21-Mar-18	14-Apr-18	251						
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)													
Noise Barrier Along TWSR-West and Laying New Utilities													
NB64 & NB64A (Ch.6860-6920)-TWSR West Side													
Noise Barrier Works													
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	20-Jan-18	10-Mar-18	337						
Noise Barrier Along Fanling Highway N/B													
NB60 (Ch.6450-6920)-FH N/B Side													
Noise Barrier Works													
NB02040	NB60 (300-408m)(NB60/26-S4, 0.19m -26nos) Piling	0%	26	26	20-Jan-18	22-Feb-18	8						
NB02050	NB60-4 (300-408m) - Sheet piling & Excavation	0%	12	12	10-Mar-18	23-Mar-18	-5						
NB02060	NB60-4 - Footing & Wall Structure	0%	50	50	24-Mar-18	28-May-18	-5						
NB02090	NB60 (408-468m)(NB60/35-39) & FADS1 Pre-drilling	0%	10	10	20-Jan-18	31-Jan-18	121						
NB02100	NB60 (408-468m)(NB60/35-39, 0.19m -32nos) Piling	0%	32	32	23-Feb-18	04-Apr-18	105						
NB02101	NB60 (408-468m) FADS1 (8nos) Piling	0%	8	8	06-Apr-18	14-Apr-18	105						
NB02105	NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos)	0%	58	58	20-Jan-18	04-Apr-18	113						
NB66 (Ch.6920-6930)-FH N/B Side													
Noise Barrier Works													
NB02150	NB66 - Sheet piling & Excavation	0%	18	18	20-Jan-18	09-Feb-18	-5						
NB02160	NB66 - Footing & Wall Structure	0%	21	21	10-Feb-18	09-Mar-18	-5						
NB02165	NB66 - Drainage Works	0%	18	18	10-Mar-18	03-Apr-18	134						
NB02170	NB66- backfilling	0%	15	15	19-Apr-18	07-May-18	167						
NB02180	NB66 - NB production	0%	45	45	10-Mar-18	23-Apr-18	367						
NB03320	Bus Shelter footing - VO86	0%	30	30	10-Mar-18	18-Apr-18	167						
Bridge Construction													
Kau Lung Hang Vehicular Bridge													

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018					
								2017	Jan	Feb	Mar	Apr	
KLH Bridge - West Ramp													
KLH.1290	West Ramp - Planting	0%	21	21	20-Jan-18	13-Feb-18	356						
KLH Bridge - Deck 1													
KLH.3430	Deck 1 - Planting	0%	21	21	20-Jan-18	13-Feb-18	356						
KLH Bridge - Deck 3													
KLH.3500	Deck 3 - Planting	0%	21	21	20-Jan-18	13-Feb-18	388						
KLH Bridge - East Ramp													
KLH.3590	East Ramp - Planting	0%	34	34	20-Jan-18	03-Mar-18	696						
KLH Bridge - Ramp R1													
Z2.KLH.3610	Ramp R1 - Steel roof	96.07%	11	280	19-Jan-17 A	01-Feb-18	366						
KLH Bridge - Ramp R2													
Z2.KLH.1550	Ramp R2 - Steel roof	93.5%	16	246	14-Mar-17 A	07-Feb-18	361						
KLH Bridge - Staircase S1													
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	0%	90	90	05-Apr-18	03-Jul-18	-6						
Bridge Road Work													
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Jan-18	20-Jun-18	257						
Lift at TWSR-W Side													
L01070	Structural Laminated glass wall installation	0%	11	11	02-Feb-18*	14-Feb-18	266						
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Jan-18	20-Jan-18	288						
L01094	Lift submission & ordering period	99.03%	4	414	01-Aug-16 A	24-Jan-18	284						
L01100	Lift installation	0%	70	70	15-Feb-18	16-May-18	266						
L01130	Finishes work	0%	88	88	15-Feb-18	07-Jun-18	267						
L01140	CLP Power available (by CLP)	90.13%	62	628	04-Apr-16 A	22-Mar-18	379						
Lift at FLHY S/B													
L01230	Structural Laminated glass wall installation	0%	12	12	01-Feb-18*	14-Feb-18	295						
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	01-Feb-18*	01-Feb-18	307						
L01260	Lift installation	0%	45	45	15-Feb-18	16-Apr-18	296						
L01270	Lift T&C	0%	14	14	17-Apr-18	30-Apr-18	360						
L01290	Finishes work	0%	60	60	15-Feb-18	04-May-18	295						
L01300	CLP Power available (by CLP)	91.24%	63	719	04-Apr-16 A	23-Mar-18	384						
Signalized Junction													
Kau Lung Hang Vehicular Bridge													
KLH Bridge - West Ramp													
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Jan-18*	13-Feb-18	350						
Noise Barrier Along Fanling Highway S/B													
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB03110	NB62 (0-80m) - NB production	0%	45	45	20-Jan-18	05-Mar-18	416						
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	06-Mar-18	10-Mar-18	337						
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	20-Jan-18	05-Feb-18	358						
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	20-Jan-18	05-Mar-18	416						
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	06-Mar-18	10-Mar-18	337						
NB03200	NB62 (110-170m) - backfilling	0%	20	20	20-Jan-18	12-Feb-18	352						
NB03210	NB62 (110-170m) - NB production	0%	45	45	20-Jan-18	05-Mar-18	416						
NB03220	NB62 (110-170m) - NB post & panel installation	0%	5	5	06-Mar-18	10-Mar-18	337						
Fanling Highway Construction													
Drainage & Road Works													
Ch 6740-6930													
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	61.04%	30	77	25-Oct-17 A	27-Feb-18	347						
RDZ20500	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 3)	0%	24	24	28-Feb-18	27-Mar-18	323						
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)													
Bridge Construction													
New Ho Ka Yuen Footbridge													
TWSR-West/ FL Highway N/B Side Section													
HKY1440	Remaining Finishes works of HKYFB	84.76%	57	374	21-Nov-16 A	03-Apr-18	307						
HKY1520	VO11 - slope improvement work	0%	45	45	04-Apr-18	29-May-18	307						
TWSR-East FL Highway S/B Side Section													
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	73.68%	100	380	13-Oct-16 A	26-May-18	309						
ZONE 4 (Ch. 7925 to 8700)													
Noise Barrier Along TWSR-West and Laying New Utilities													
Underground Utility Works													
DN450 DI Watermain "A" (Ch 1989-2529)													
DI0150	DN450 DI watermain laying (250-300m)	66.67%	10	30	27-Dec-17 A	31-Jan-18	199						
DI0160	DN450 DI watermain laying (300-350m)	0%	30	30	01-Feb-18	10-Mar-18	199						
DI0170	DN450 DI watermain laying (350-400m)	0%	30	30	12-Mar-18	19-Apr-18	199						
Noise Barrier Along Fanling Highway N/B													
NB75 (Ch.7930-8090)-FH N/B Side													
Noise Barrier Works													
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	20-Dec-17 A	25-Jan-18	239						
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	28-Dec-17 A	25-Jan-18	239						
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	20-Dec-17 A	25-Jan-18	239						
NB4260	NB75 - NB production (Ch8050-8090)	66.67%	15	45	20-Nov-17 A	03-Feb-18	281						
NB4270	NB75 - NB post & panel installation (Ch8050-8090)	0%	5	5	05-Feb-18	09-Feb-18	226						
NB4280	NB75 complete	0%	0	0	09-Feb-18	09-Feb-18	226						

09-Feb-18 ◆ NB75 complete

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2018					
								2017	Jan	Feb	Mar	Apr	
NB4580	NB75 backfilling complete	0%	0	0		31-Jan-18	99		31-Jan-18	◆ NB75 backfilling complete			
NB4610	NB75 Drainage Works	93.2%	10	147	20-Jul-17 A	31-Jan-18	0						
NB77 (Ch.8090-8450)-FH N/B Side													
Noise Barrier Works													
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	76.19%	40	168	20-Jul-17 A	10-Mar-18	49						
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	10-Mar-18	24-Apr-18	189						
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	71.43%	30	105	20-Sep-17 A	27-Feb-18	123						
NB4390	NB77 - NB production (Ch8190-8290)	0%	45	45	28-Feb-18	13-Apr-18	200						
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	37.74%	66	106	03-Nov-17 A	14-Apr-18	103						
NB4450	NB77 - NB production (Ch8290-8390)	0%	45	45	14-Apr-18	29-May-18	154						
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	0%	50	50	20-Jan-18	22-Mar-18	77						
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	0%	50	50	23-Mar-18	26-May-18	77						
NB4620	NB77 Drainage Works	0%	100	100	12-Mar-18	14-Jul-18	49						
Bridge Construction													
New Wo Hop Shek Pedstrian & Cycle Bridge													
TWSR-West/ FL Highway N/B Side Section													
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	94.54%	10	183	20-Jun-17 A	31-Jan-18	157						
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	01-Feb-18	27-Feb-18	157						
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		27-Feb-18	157						27-Feb-18 ◆ 2nd half Steel Ramp ready for erection (WHS
WHS2100	Shop Drawing preparation, submission & approval	83.33%	15	90	20-Oct-17 A	06-Feb-18	100						
WHS2110	Material procurement & testing	76.56%	15	64	21-Nov-17 A	06-Feb-18	100						
WHS2120	Ramp fabrication	0%	72	72	07-Feb-18	10-May-18	100						
Crossing Fanling Highway Section													
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	20-Jan-18	07-Apr-18	313						
WHS1520	Remove railing	0%	12	12	09-Apr-18	21-Apr-18	313						
VO - Wall 76A Construction													
Retaining Wall W76A													
TWSR-East FL Highway S/B Side Section													
W76A1060	Road work for Caltex access road	2.67%	146	150	16-Jan-18 A	21-Jul-18	263						
Fanling Highway Construction													
Drainage & Road Works													
TWSR-East FL Highway S/B Side Section													
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY	0%	28	28	09-Mar-18	14-Apr-18	0						
RDZ41102	Construct FH N/B Lane 1 (at NBZ2)	0%	20	20	01-Feb-18	27-Feb-18	99						
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	0%	20	20	28-Feb-18	22-Mar-18	99						
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	0%	20	20	23-Mar-18	19-Apr-18	99						
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	14	14	21-Feb-18	08-Mar-18	0						
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	14	14	01-Feb-18	20-Feb-18	0						
RDZ41131	Drainage work at central divider (Ch8100-8600)	56%	66	150	10-Oct-17 A	14-Apr-18	113						
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8600)	0%	45	45	16-Apr-18	08-Jun-18	113						
Other Works													
Retaining Wall W78													
TWSR-East FL Highway S/B Side Section													
RWZ4.1010	Base slab & Wall (6-11m high)-RW78 (Ch.0-50)	19.09%	89	110	02-Jan-18 A	12-May-18	1						
Slope Works													
TWSR-East FL Highway S/B Side Section													
S1030	Slope S53-Fill ~5m	0%	110	110	20-Jan-18	07-Jun-18	134						
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Jan-18	10-Mar-18	333						
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Jan-18	10-Mar-18	333						
TCSS Works													
TCSS Pre-Construction Works													
TCSS0120	Prepare Shop Drawing-TCSS	80%	6	30	20-Dec-17 A	26-Jan-18	96						
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	27-Jan-18	16-Feb-18	123						
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	20-Feb-18	12-Mar-18	96						
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0	0		12-Mar-18	96						12-Mar-18 ◆ Confirm Shop drawing & ready fo
TCSS0160	Raw material procurement	6.11%	169	180	09-Jan-18 A	07-Jul-18	4						
G34													
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	21-Feb-18	27-Mar-18	113						
G35													
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-Jan-18	25-Jan-18	282						
DS50													
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Jan-18	27-Feb-18	197						
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	20-Jan-18	25-Jan-18	222						
FADS8													
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	16-Apr-18	21-May-18	161						
FVMS2 (Deleted by RFI-138, Pending for VO)													
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Jan-18	27-Feb-18	257						
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-Jan-18	27-Feb-18	257						

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

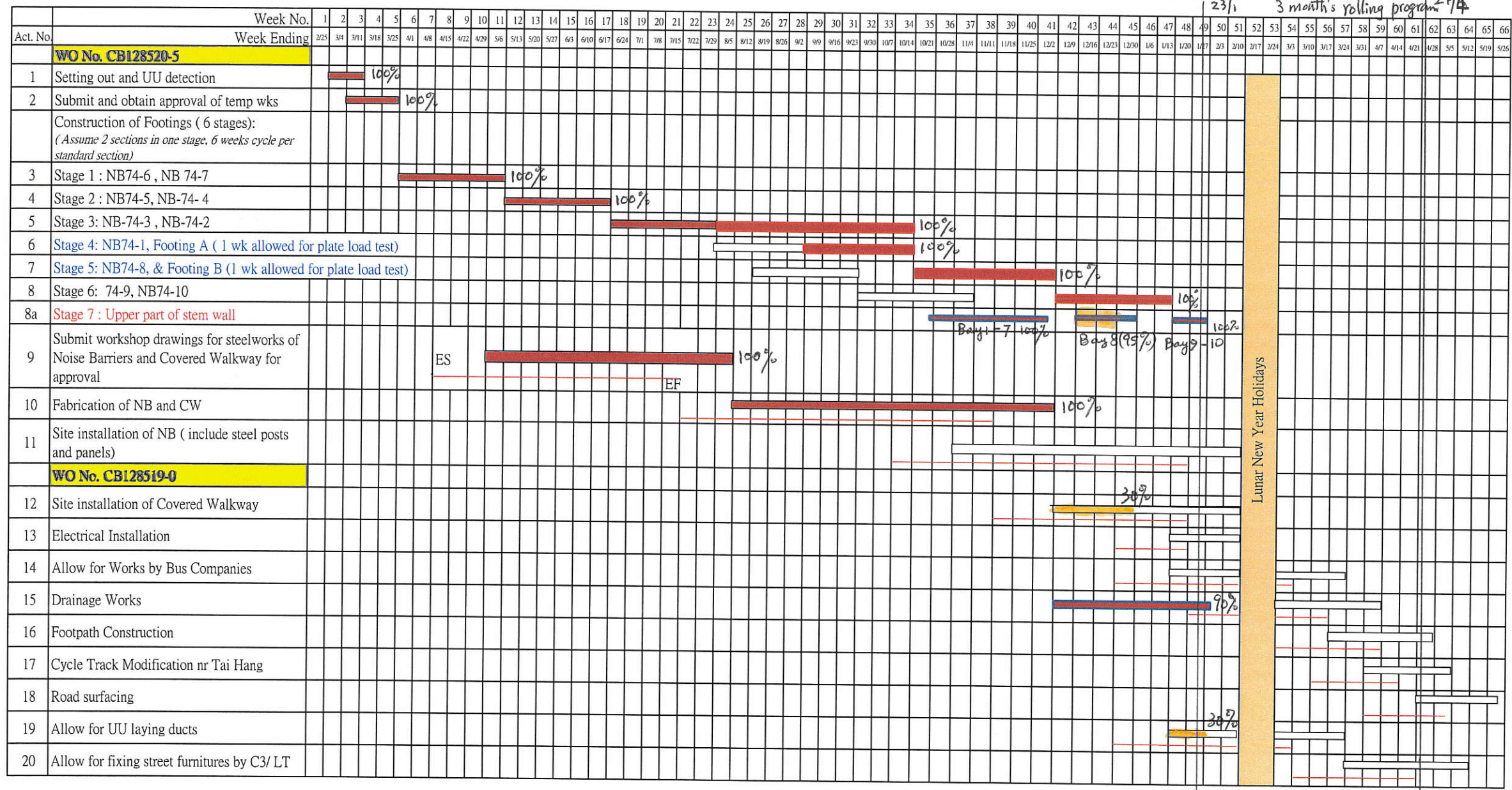
Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

- ▬ Revised Program Duration
- ▬ Programmed Duration
- ▬ Actual Progress
- ▬ Critical Path Activities
- ▬ Early Start & Early Finish
- Float = 3 weeks
- ▬ upper part of stem wall

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program
03	28/9/2017	revise program of task 5-8



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 = 432 M3	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar-Concreting	110 M3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M3	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

\$\$ Breakdown of Item 8a (for 2 sections of stem wall)

	Posts calendar days
Fwk	4
Re-bar	2
Concreting	1
Fix HD bolts	2
Remove Fwk	1
Total :	10 days

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Nov 17	Dec 17	Jan 18	Nov 17	Dec 17	Jan 18
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V	V	V	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		@	@	@	V	V	V
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	@	@	V	V	@
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V	V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V	V	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V	V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V	V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	V	@	@	@	@

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Nov 17	Dec 17	Jan 18	Nov 17	Dec 17	Jan 18
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V	V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Nov 17	Dec 17	Jan 18	Nov 17	Dec 17	Jan 18
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	@	@	@	N.A.	N.A.	N.A.
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. - Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. - Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. - Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system. - Open stockpiles should be covered with a tarpaulin cover. - During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		@	@	@	V	V	@

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Nov 17	Dec 17	Jan 18	Nov 17	Dec 17	Jan 18
Waste management during construction	General Waste - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards.	During construction	V	V	V	V	V	V
	Vegetation from site clearance - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.		V	V	V	V	V	V
	Demolition Wastes - Segregation of materials to facilitate disposal. - Appropriate stockpile management.		V	V	V	V	V	V
	Excavated Materials - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated.		V	V	V	V	V	V
	Construction Wastes - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.		V	@	V	V	V	V

<p>Bentonite Slurries</p> <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#	#	#	N.A.	N.A.	N.A.
<p>Chemical Wastes</p> <ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. 		@	@	@	N.A.	N.A.	N.A.
<p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 		V	V	V	V	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Nov 17	Dec 17	Jan 18	Nov 17	Dec 17	Jan 18
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	V	V	V	V	V	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V	V	V	V	V	V
	<p>Dust generation</p> <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		@	@	@	@	@	@

	<p>Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 		@	@	@	V	V	@
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---	---	---	---	---	---

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Nov 17	Dec 17	Jan 18	Nov 17	Dec 17	Jan 18
Landscape & Visual during construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V	V	V	V
	Temporary Works Areas - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V	V	V	V	V	V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V	V	V	N.A.	N.A.	N.A.
	Top Soils - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.		#	#	#	N.A.	N.A.	N.A.
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#	#	#	N.A.	N.A.	N.A.

Legend:

- V = implemented;
- x = not implemented;
- @ = partially implemented;
- + = recommended and immediately implemented during the site inspection by the Contractor;
- N/A = not applicable - No such work was undertaken or no such material was used on site;
- # = to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
M3*		65/70 dB(A)

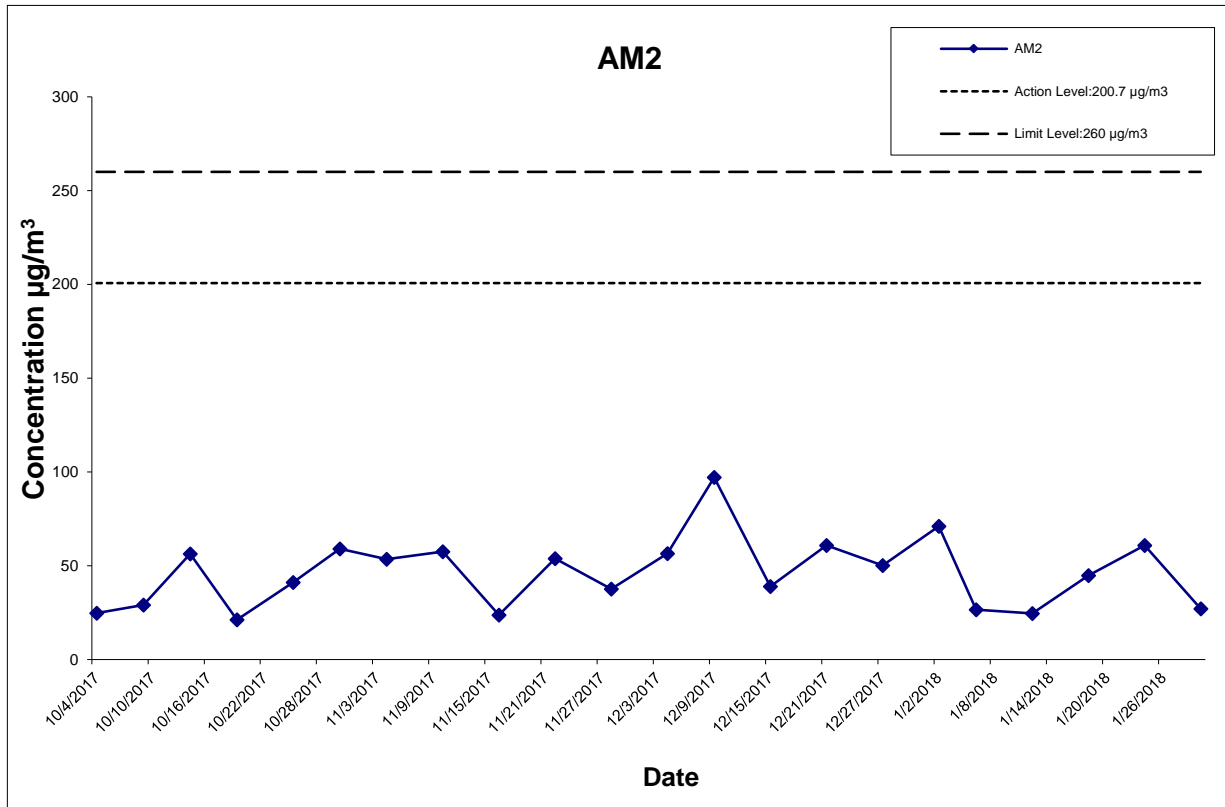
*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Actino Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final				
4-Oct-17	Sunny	28.7	1014.0	1.314	1.314	1.314	1892.2	2.8265	2.8734	0.0469	9306.02	9330.02	24.00	24.8	200.7	260
9-Oct-17	Sunny	29.4	1010.1	1.314	1.314	1.314	1892.2	2.8087	2.8638	0.0551	9330.02	9354.02	24.00	29.1	200.7	260
14-Oct-17	Fine	24.5	1004.5	1.314	1.314	1.314	1892.2	2.7571	2.8638	0.1067	9354.02	9378.02	24.00	56.4	200.7	260
19-Oct-17	Cloudy	25.4	1011.9	1.314	1.314	1.314	1892.2	2.7491	2.7892	0.0401	9378.02	9402.02	24.00	21.2	200.7	260
25-Oct-17	Sunny	24.1	1018.8	1.314	1.314	1.314	1892.2	2.7547	2.8326	0.0779	9402.02	9426.02	24.00	41.2	200.7	260
30-Oct-17	Fine	22.7	1020.9	1.314	1.314	1.314	1892.2	2.7653	2.8772	0.1119	9426.02	9450.02	24.00	59.1	200.7	260
4-Nov-17	Cloudy	23.6	1018.9	1.314	1.314	1.314	1892.2	2.7728	2.8740	0.1012	9450.02	9474.02	24.00	53.5	200.7	260
10-Nov-17	Sunny	25.0	1014.9	1.314	1.314	1.314	1892.2	2.5779	2.6869	0.1090	9474.02	9498.02	24.00	57.6	200.7	260
16-Nov-17	Sunny	23.4	1015.1	1.314	1.314	1.314	1892.2	2.7702	2.8150	0.0448	9498.02	9522.02	24.00	23.7	200.7	260
22-Nov-17	Fine	19.8	1016.5	1.314	1.314	1.314	1892.2	2.5905	2.6925	0.1020	9522.02	9546.02	24.00	53.9	200.7	260
28-Nov-17	Cloudy	22.2	1017.4	1.314	1.314	1.314	1892.2	2.6048	2.6761	0.0713	9546.02	9570.02	24.00	37.7	200.7	260
4-Dec-17	Fine	20.1	1018.3	1.314	1.314	1.314	1892.2	2.7948	2.9017	0.1069	9570.02	9594.02	24.00	56.5	200.7	260
9-Dec-17	Sunny	15.5	1019.7	1.314	1.314	1.314	1892.2	2.5645	2.7482	0.1837	9594.02	9618.02	24.00	97.1	200.7	260
15-Dec-17	Cloudy	19.6	1019.2	1.314	1.314	1.314	1892.2	2.5939	2.6676	0.0737	9618.02	9642.02	24.00	39.0	200.7	260
21-Dec-17	Sunny	15.0	1025.7	1.314	1.314	1.314	1892.2	2.7486	2.8639	0.1153	9642.02	9666.02	24.00	60.9	200.7	260
27-Dec-17	Sunny	17.6	1021.2	1.314	1.314	1.314	1892.2	2.7844	2.8794	0.0950	9666.02	9690.02	24.00	50.2	200.7	260
2-Jan-18	Sunny	17.8	1019.3	1.314	1.314	1.314	1892.2	2.7513	2.8859	0.1346	9690.02	9714.02	24.00	71.1	200.7	260
6-Jan-18	Rainy	16.2	1014.6	1.314	1.314	1.314	1892.2	2.6527	2.7031	0.0504	9714.02	9738.02	24.00	26.6	200.7	260
12-Jan-18	Sunny	12.8	1027.1	1.314	1.314	1.314	1892.2	2.6116	2.6581	0.0465	9738.02	9762.02	24.00	24.6	200.7	260
18-Jan-18	Sunny	19.2	1016.6	1.314	1.314	1.314	1892.2	2.6277	2.7125	0.0848	9762.02	9786.02	24.00	44.8	200.7	260
24-Jan-18	Fine	17.7	1015.5	1.314	1.314	1.314	1892.2	2.6559	2.7710	0.1151	9786.02	9810.02	24.00	60.8	200.7	260
30-Jan-18	Sunny	10.1	1020.4	1.314	1.314	1.314	1892.2	2.6385	2.6897	0.0512	9810.02	9834.02	24.00	27.1	200.7	260
Average for the reporting quarter (Nov 17 to Jan 18)													49.1			
Minimum for the reporting quarter (Nov 17 to Jan 18)													23.7			
Maximum for the reporting quarter (Nov 17 to Jan 18)													97.1			



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 24-hour TSP Monitoring Results

Project No.: 60307376

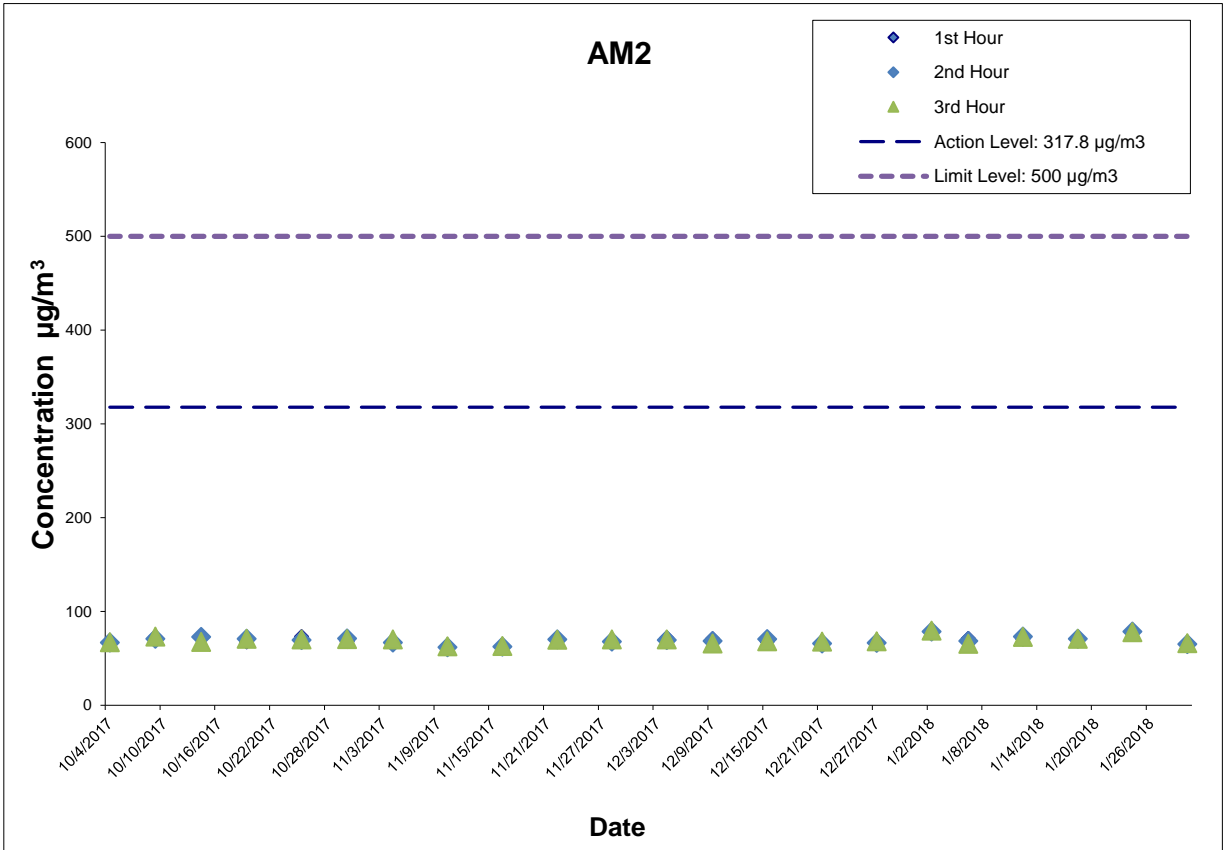
Date: Feb-18

Appendix E

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanning Government Secondary School)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
4-Oct-17	9:45	68.2	66.9	67.3
9-Oct-17	10:10	72.9	70.8	73.4
14-Oct-17	10:10	71.6	73.0	67.5
19-Oct-17	13:30	67.5	70.8	71.1
25-Oct-17	14:10	73.4	69.6	70.3
30-Oct-17	9:55	67.9	71.4	70.6
4-Nov-17	14:00	65.8	66.8	70.2
10-Nov-17	12:12	63.4	61.9	62.9
16-Nov-17	12:25	62.1	62.7	63.4
22-Nov-17	11:05	69.8	70.1	69.9
28-Nov-17	13:38	67.9	67.8	70.2
4-Dec-17	10:48	72.0	69.6	70.4
9-Dec-17	10:20	71.1	68.5	65.9
15-Dec-17	12:05	67.8	70.5	68.1
21-Dec-17	10:30	66.2	65.9	67.8
27-Dec-17	14:00	65.0	66.7	68.1
2-Jan-18	10:00	79.1	78.6	79.7
6-Jan-18	13:30	71.2	68.5	65.6
12-Jan-18	9:30	70.6	73.2	72.8
18-Jan-18	10:45	69.5	70.8	71.1
24-Jan-18	13:10	78.1	78.7	77.8
30-Jan-18	13:00	64.6	65.3	66.2
Average for the reporting quarter (Nov 17 to Jan 18)				69.2
Minimum for the reporting quarter (Nov 17 to Jan 18)				61.9
Maximum for the reporting quarter (Nov 17 to Jan 18)				79.7



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Feb-18

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , November 2017 - Tai Po


Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	25.7#	22.2	19.0#	15.6	67	***	***	***
02	***	27.2#	22.2	18.3#	16.4	71	***	***	***
03	***	27.5#	23.7	19.2#	16.9	68	***	***	***
04	***	24.9#	23.6	20.6#	12.8	51	***	***	***
05	***	24.6#	22.7	19.8#	14.1	59	***	***	***
06	***	24.4#	22.8	21.1#	16.4	68	***	***	***
07	***	25.6#	22.4	20.3#	18.4	79	***	***	***
08	***	26.1#	23.6	21.4#	20.6	83	***	***	***
09	***	26.1#	24.3	22.9#	19.8	76	***	***	***
10	***	27.7#	25.1	22.5#	20.4	76	***	***	***
11	***	26.3	24.2	22.2	20.9	82	***	***	***
12	***	23.6	22.4	20.9	19.8	86	***	***	***
13	***	22.5#	21.8	21.1#	20.5	93	***	***	***
14	***	23.8#	22.9	21.7#	21.1	90	***	***	***
15	***	23.6#	23.2	22.4#	20.1	83	***	***	***
16	***	24.8	23.4	22.5	19.5	79	***	***	***
17	***	25.8	23.7	21.5	21.3	87	***	***	***
18	***	26.3#	23.3	19.6#	19.8	82	***	***	***
19	***	19.7	18.8	17.6	16.7	88	***	***	***
20	***	19.5#	17.3	15.9#	13.3	77	***	***	***
21	***	20.6	17.7	14.8	12.8	73	***	***	***
22	***	21.6#	18.5	16.2#	11.8	65	***	***	***
23	***	20.4	16.8	13.8	8.6	59	***	***	***
24	***	18.8	16.5	15.5	9.4	63	***	***	***
25	1021.0#	18.6#	16.8	15.1#	11.8	72	***	***	***
26	1019.7	21.3	18.5	16.6	13.2	72	***	***	***
27	1018.6#	21.7#	19.4	16.8#	15.4	78	***	***	***
28	***	25.6#	22.0	19.6#	18.1	79	***	***	***
29	***	26.2#	23.2	20.8#	20.2	84	***	***	***
30	1016.5#	22.6	22.0	21.5	20.4	91	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , November 2017 - Tai Mei Tuk


Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	26.2#	22.2	19.6#	***	***	0.0	050	13.4
02	***	28.8	23.0	19.1	***	***	0.0	260	5.8
03	***	28.2	24.0	20.5	***	***	0.0	050	17.6
04	***	25.7	23.3	20.6	***	***	0.0	040	21.8
05	***	25.6	22.5	19.3	***	***	0.0	040	17.9
06	***	25.6#	22.8	20.8#	***	***	0.0	040	15.0
07	***	27.1	22.8	20.5	***	***	2.5	050	6.9
08	***	27.7	23.8	21.5	***	***	0.5	040	8.2
09	***	27.3#	24.1	22.4#	***	***	0.0	090	16.3
10	***	29.1	25.0	22.1	***	***	0.0	110	12.3
11	***	28.3	24.2	22.4	***	***	0.0	080	12.6
12	***	23.9#	22.2	21.0#	***	***	8.5	090	16.7
13	***	22.4	21.5	21.0	***	***	9.0	050	14.2
14	***	23.6#	22.5	21.5#	***	***	1.5	090	12.0
15	***	23.9#	22.7	21.7#	***	***	0.0	090	17.9
16	***	26.2#	23.2	21.9#	***	***	0.0	090	16.3
17	***	27.7	23.9	21.4	***	***	0.0	060	7.0
18	***	26.5#	23.0	19.2#	***	***	0.0	030	11.0
19	***	19.8	18.8	17.3	***	***	0.0	020	16.1
20	***	19.5	17.7	16.5	***	***	0.0	040	12.3
21	***	21.6	18.3	15.7	***	***	0.0	040	5.8
22	***	24.0#	19.1	15.8#	***	***	0.0	040	11.4
23	***	20.8	16.9	13.8	***	***	0.0	040	14.4
24	***	20.9	16.9	15.2	***	***	0.0	040	10.2
25	***	19.1#	17.0	15.5#	***	***	0.0	040	7.1
26	***	23.2#	19.0	16.7#	***	***	0.0	270	4.3
27	***	22.5#	19.7	17.2#	***	***	0.0	050	9.4
28	***	26.0	22.0	19.5	***	***	0.0	050	10.4
29	***	27.2	23.4	20.9	***	***	0.0	060	8.2
30	***	23.2	21.8	21.1	***	***	0.0	080	10.8

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , December 2017 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1018.0	22.7	20.8	18.8	15.2	70	***	***	***
02	1018.3	23.2#	19.3	16.4#	13.9	72	***	***	***
03	1016.9	23.2#	19.8	17.2#	15.1	74	***	***	***
04	1017.9#	21.8#	18.8#	16.4#	13.6#	72#	***	***	***
05	1019.4	20.3#	17.9	15.3#	12.6	71	***	***	***
06	1017.8	21.4#	18.4	15.2#	13.0	71	***	***	***
07	1017.5	20.9#	18.8	17.0#	12.7	68	***	***	***
08	1020.8	19.8#	17.4	13.7#	4.3	42	***	***	***
09	1019.2	17.9#	14.0	10.3#	4.8	55	***	***	***
10	1017.6	21.3	16.7	12.0	8.5	60	***	***	***
11	1017.7	21.6#	18.5	15.4#	8.9	55	***	***	***
12	1017.7	19.6#	18.2	16.6#	11.3	65	***	***	***
13	1017.1	19.1#	18.5	18.0#	14.4	77	***	***	***
14	1017.4	21.0#	19.3	18.2#	15.3	78	***	***	***
15	1018.4	21.2#	19.5	18.6#	16.1	81	***	***	***
16	1023.5	19.0#	14.9	11.6#	8.7	66	***	***	***
17	1026.4	13.2#	11.5	9.4#	5.0	64	***	***	***
18	1025.3	15.7#	11.6	7.8#	3.0	56	***	***	***
19	1025.4	16.2#	13.0	9.3#	0.3	42	***	***	***
20	1026.9	18.4#	14.8	10.3#	-0.0	37	***	***	***
21	1025.1	17.7#	14.1	8.8#	4.6	54	***	***	***
22	1020.6	19.6#	16.8	12.9#	9.8	64	***	***	***
23	1016.8	20.7#	18.5	16.4#	14.5	78	***	***	***
24	1017.5	23.6#	20.2	17.1#	10.7	56	***	***	***
25	1019.3	19.5#	16.8	13.3#	6.9	54	***	***	***
26	1020.3	20.6#	17.5	16.0#	12.6	74	***	***	***
27	1020.6	20.7#	17.8	16.4#	13.2	75	***	***	***
28	1020.0	20.1	18.3	16.3	14.4	78	***	***	***
29	1020.6	22.9#	19.0	16.3#	14.9	78	***	***	***
30	1021.0	23.1#	19.5	16.1#	14.4	73	***	***	***
31	1021.1	20.6#	17.7	15.2#	10.3	62	***	***	***

*** unavailable

data incomplete

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Daily Extract of Meteorological Observations , December 2017 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	23.8	20.6	18.4	***	***	0.0	030	17.4
02	***	23.7	19.4	16.2	***	***	0.0	050	8.1
03	***	24.2	19.9	16.9	***	***	0.0	040	5.6
04	***	24.7	19.5	16.2	***	***	0.0	050	12.4
05	***	20.3	17.8	16.0	***	***	0.0	040	13.8
06	***	21.6	18.1	15.9	***	***	0.0	030	13.3
07	***	22.3	19.0	16.6	***	***	0.0	040	12.4
08	***	19.4	17.0	13.7	***	***	0.0	040	23.1
09	***	19.6	14.6	11.0	***	***	0.0	100	6.3
10	***	22.2	17.6	13.1	***	***	0.0	260	4.7
11	***	22.2	18.4	15.2	***	***	0.0	040	11.2
12	***	20.4	17.9	15.7	***	***	0.0	050	15.7
13	***	19.7#	18.4	17.5#	***	***	0.0	090	19.6
14	***	22.3	19.3	17.6	***	***	0.0	090	14.5
15	***	22.9	19.5	18.1	***	***	0.0	060	13.5
16	***	18.4	14.4	10.7	***	***	0.0	030	24.2
17	***	13.6#	10.9	8.9#	***	***	0.0	030	17.1
18	***	16.1	12.0	8.1	***	***	0.0	030	12.7
19	***	16.4#	13.2	9.4#	***	***	0.0	030	18.4
20	***	18.0	14.8	10.9	***	***	0.0	030	17.6
21	***	19.0#	14.8	10.9#	***	***	0.0	040	17.9
22	***	21.2#	16.7	13.8#	***	***	0.0	050	13.8
23	***	21.8	18.8	16.3	***	***	0.0	050	5.4
24	***	23.8	20.2	16.9	***	***	0.0	030	14.3
25	***	20.8#	17.0	14.0#	***	***	0.0	280	11.1
26	***	21.4	17.2	15.2	***	***	0.0	050	14.5
27	***	21.3	17.5	14.9	***	***	0.0	090	14.7
28	***	21.0	18.0	16.0	***	***	0.0	050	10.4
29	***	23.6#	18.7	16.5#	***	***	0.0	100	11.3
30	***	24.9#	19.6	16.5#	***	***	0.0	050	16.4
31	***	21.6#	17.6	14.4#	***	***	0.0	050	13.4

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data incomplete

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Daily Extract of Meteorological Observations , January 2018 - Tai Po

 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1019.8	19.0#	17.0	15.5#	12.8	77	***	***	***
02	1018.7	19.9	17.7	14.5	14.0	79	***	***	***
03	1017.8	22.2#	19.5	17.6#	15.2	77	***	***	***
04	1016.0	20.1#	19.0	18.1#	15.6	81	***	***	***
05	1014.6	21.3#	18.6	16.8#	16.6	88	***	***	***
06	1014.1	17.0#	16.1	15.2#	15.2	94	***	***	***
07	1014.0	18.3#	16.8	15.0#	15.8	94	***	***	***
08	1015.2	18.5#	14.3	8.0#	13.4	94	***	***	***
09	1023.1	9.8#	7.9	6.5#	4.7	81	***	***	***
10	1024.7	16.4	12.5	9.3	0.7	46	***	***	***
11	1025.8	16.5#	13.7	10.2#	-0.4	39	***	***	***
12	1026.6	15.3#	12.1	8.0#	-0.1	45	***	***	***
13	1025.5	14.7#	12.1	7.8#	6.5	70	***	***	***
14	1022.3	17.8	13.9	9.5	7.8	68	***	***	***
15	1018.4	19.3#	14.5	9.9#	10.3	77	***	***	***
16	1014.7	23.0#	16.9	12.9#	12.0	75	***	***	***
17	1013.8	24.6	18.5	14.4	11.0	63	***	***	***
18	1016.0	22.1#	17.9	14.1#	14.6	81	***	***	***
19	1017.1	18.6#	17.9	17.0#	16.8	94	***	***	***
20	1016.1	21.0#	18.5	17.6#	16.0	86	***	***	***
21	1014.9	20.3#	18.0	16.6#	15.4	85	***	***	***
22	1013.2	23.0#	19.1	15.6#	16.4	85	***	***	***
23	1014.7	20.3#	18.5	17.1#	15.4	82	***	***	***
24	1015.0	18.6#	17.6	16.7#	13.8	78	***	***	***
25	1015.2	18.3#	16.9	16.1#	13.5	80	***	***	***
26	1016.6	19.3#	16.6	15.0#	14.1	85	***	***	***
27	1016.7	16.8#	14.9	12.8#	11.7	81	***	***	***
28	1014.7	17.2#	15.0	10.1#	11.5	80	***	***	***
29	1020.5	10.1#	7.9	6.5#	5.0	82	***	***	***
30	1020.3	8.1#	7.1	5.7#	5.0	86	***	***	***
31	1021.2	7.8#	7.2	6.1#	5.8	91	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , January 2018 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	20.3#	16.8	14.5#	***	***	0.0	100	10.7
02	***	22.0	18.0	15.0	***	***	0.0	080	12.0
03	***	24.3#	19.2	17.3#	***	***	0.0	050	15.9
04	***	20.6	18.7	17.6	***	***	0.0	050	14.7
05	***	23.2	18.7	16.5	***	***	1.5	070	9.0
06	***	16.6	15.6	14.6	***	***	14.0	080	18.8
07	***	17.8	16.4	14.8	***	***	22.5	050	15.9
08	***	18.4	14.1	7.9	***	***	12.5	030	12.4
09	***	10.4#	8.0	6.4#	***	***	8.0	030	13.4
10	***	16.8	12.8	9.8	***	***	0.0	040	21.7
11	***	16.3	13.7	11.2	***	***	0.0	040	22.4
12	***	16.0#	12.3	9.3#	***	***	0.0	040	18.2
13	***	16.0	12.5	9.7	***	***	0.0	050	17.9
14	***	18.8	14.0	10.3	***	***	0.0	080	12.9
15	***	20.8#	14.8	11.0#	***	***	0.0	130	8.1
16	***	23.8	17.4	13.3	***	***	0.0	130	6.5
17	***	25.7#	19.1	14.2#	***	***	0.0	050	6.8
18	***	23.8#	18.1	15.0#	***	***	0.0	070	7.7
19	***	18.9	18.0	16.9	***	***	0.5	060	6.2
20	***	21.6#	18.4	16.7#	***	***	0.0	140	9.2
21	***	21.5	18.0	16.2	***	***	0.0	090	7.6
22	***	25.7#	19.5	15.9#	***	***	0.0	140	5.8
23	***	22.0	18.5	16.6	***	***	0.0	080	11.2
24	***	19.0#	17.2	16.2#	***	***	0.0	090	25.3
25	***	20.0	16.7	15.6	***	***	0.0	070	19.0
26	***	18.7#	16.3	14.2#	***	***	0.0	080	11.4
27	***	18.3#	14.9	12.4#	***	***	0.0	050	13.5
28	***	18.2	15.3	10.6	***	***	0.0	040	8.2
29	***	10.7#	8.3	6.6#	***	***	3.0	040	11.6
30	***	9.4	8.1	6.7	***	***	1.0	040	9.9
31	***	9.0#	8.0	6.5#	***	***	18.5	040	15.2

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Last revision date: <17 May 2017>

**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
4-Oct-17	10:05	68.5	70.0	64.5	75	N
9-Oct-17	10:10	70.1	74.2	63.2	75	N
19-Oct-17	15:00	67.9	69.5	65.2	75	N
25-Oct-17	15:20	67.3	68.9	65.1	75	N
30-Oct-17	11:09	70.9	72.3	67.2	75	N
10-Nov-17	14:46	69.8	71.1	65.6	75	N
16-Nov-17	14:40	69.6	71.0	67.0	75	N
22-Nov-17	11:09	69.8	71.7	67.2	75	N
28-Nov-17	14:38	69.4	70.5	67.3	75	N
4-Dec-17	10:30	69.7	72.6	64.2	75	N
15-Dec-17	13:30	69.8	71.7	67.2	75	N
21-Dec-17	11:30	67.8	70.0	65.5	75	N
27-Dec-17	14:30	68.8	70.0	66.0	75	N
2-Jan-18	10:30	68.4	70.0	66.5	75	N
12-Jan-18	10:20	70.6	73.6	67.2	75	N
18-Jan-18	11:20	65.7	66.4	64.3	75	N
24-Jan-18	14:10	69.3	71.8	67.0	75	N
30-Jan-18	13:20	67.7	69.0	63.5	75	N
Minimum for Nov 17 to Jan 18		65.7	66.4	63.5		
Maximum for Nov 17 to Jan 18		70.9	73.6	67.3		
Average for Nov 17 to Jan 18		69.3	71.1	66.3		

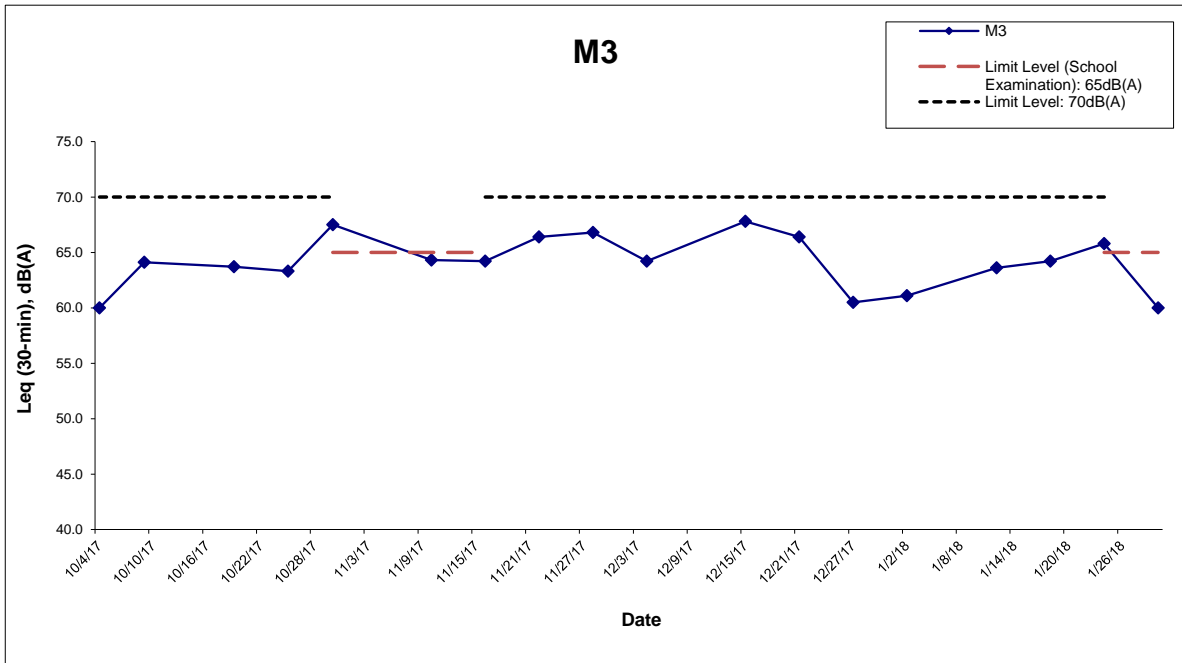
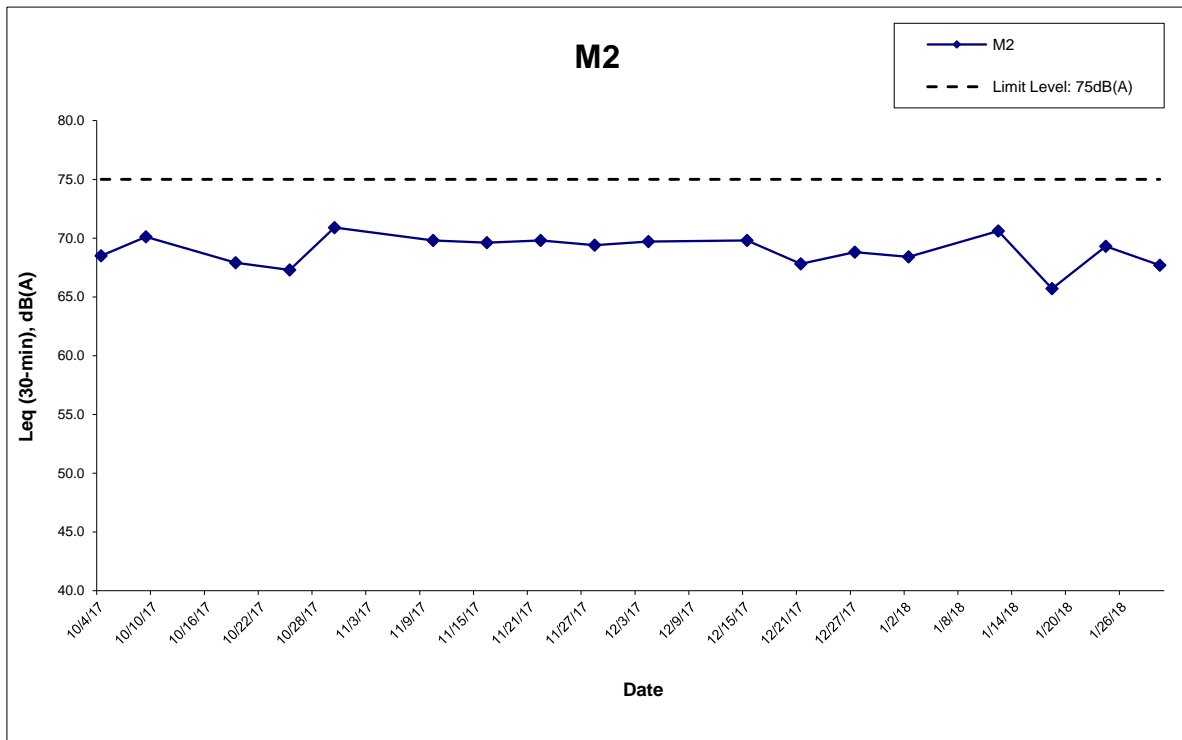
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq*	L10	L90		
4-Oct-17	9:45	60.0	61.0	56.5	70	N
9-Oct-17	10:30	64.1	66.9	61.0	70	N
19-Oct-17	13:40	63.7	65.2	61.3	70	N
25-Oct-17	14:15	63.3	65.1	60.1	70	N
30-Oct-17	9:59	67.5	69.2	65.3	70	N
10-Nov-17	12:12	64.3	66.0	61.8	65	N
16-Nov-17	12:25	64.2	65.5	61.5	70	N
22-Nov-17	13:35	66.4	68.0	63.9	70	N
28-Nov-17	13:25	66.8	68.7	64.3	70	N
4-Dec-17	10:48	64.2	67.9	60.5	70	N
15-Dec-17	14:50	67.8	70.5	65.3	70	N
21-Dec-17	13:35	66.4	68.0	63.9	70	N
27-Dec-17	14:00	60.5	61.5	56.5	70	N
2-Jan-18	10:00	61.1	62.0	56.6	70	N
12-Jan-18	9:30	63.6	66.7	60.6	70	N
18-Jan-18	10:45	64.2	65.5	63.8	70	N
24-Jan-18	13:15	65.8	67.7	63.6	70	N
30-Jan-18	13:00	60.0	61.0	57.0	65	N
Minimum for Nov 17 to Jan 18		60.0	61.0	56.5		
Maximum for Nov 17 to Jan 18		67.8	70.5	65.3		
Average for Nov 17 to Jan 18		65.1	67.1	62.6		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period. Examination period of Fanling Government Secondary School (M3) in this reporting period is 6 - 10 November 2017 and 3 - 17, 26 - 31 January 2018.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period. Examination period of Fanling Government Secondary School (M3) in this reporting period is 6 - 10 November 2017 and 3 - 17, 26 - 31 January 2018.

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise
 Monitoring Results

Project No.: 60307376 Date: Feb-18

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	7
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.</p>	Closed		
25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
<p>5 January 2017 (Referred by the Contractor on 13 January 2017)</p>	<p>A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017.</p> <p>The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village.</p> <p>The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.</p>	<p>Closed</p>		
<p>22 May 2017 (Referred by the Contractor on 23 May 2017)</p>	<p>A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017.</p> <p>A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s).</p> <p>The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.</p>	<p>Closed</p>		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0