



Environmental Protection Department

Contract No. HY/2012/06

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

**Quarterly EM&A Report
for February 2017 to April 2017**

[6/2017]

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

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<p>AECOM Asia Co. Ltd. 15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com</p>

Hyder-Arup-Black & Veatch Joint Venture
c/o Arcadis
20/F, AXA Tower, Landmark East,
100 How Ming Street,
Kwun Tong, Hong Kong
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/pi/T329380/22
.05/L-0169

Environmental Permit No. EP-324/2008/E

Quarterly EM&A Summary Report for February 2017 to April 2017 for the portion of Stage 2 works under Contract No. HY/2012/06

20/F AIA Kowloon Tower
Landmark East
100 How Ming Street
Kwun Tong
Kowloon
Hong Kong

05 June 2017

By Fax (2805 5028) & Hand

T +852 2828 5757
F +852 2827 1823
mottmac.hk

We refer to the revised Quarterly EM&A Summary Report for February 2017 to April 2017 for the captioned Project received on 05 June 2017 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.
HyD
AECOM

Mr. Chung Lok Chin
Mr. Y W Fung

By Fax (2714 5198)
By Fax (2891 0305)

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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 February 2017 and 30 April 2017. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were as follows:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- 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:

- Site clearance

- Installation of sheet-piles
- Construction of footing
- Installation of safety beams

Reporting Change

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0) has been included in this EM&A report.

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
- Temporary bridge construction
- House construction
- 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:

- Site clearance
- Installation of sheet-piles
- Construction of footing
- Installation of safety beams

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)	71.3	64.2 – 76.6	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)	47.8	13.3 – 87.2	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))	Range (dB(A))	Limit Level (dB(A))
	L_{eq} (30 mins)	L_{eq} (30 mins)	L_{eq} (30 mins)
M2* (West Tai Wo)	69.2	67.0 – 70.9	75
M3# (Fanling Government Secondary School)	64.6	60.0 – 68.2	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, 6,072 m³ of inert C&D material was generated in the reporting period (239m³ was broken concrete, 2,126m³ was reused in the Contract, 1,824m³ was reused in other Projects and 1,883m³ was disposed as public fill to Tuen Mun 38). 908 kg of general refuse was disposed of at NENT landfill. 0 kg of metals, 224 kg of paper and 735 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	1,883 m ³	Tuen Mun 38
Broken concrete	239 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	908 m ³	NENT Landfill
Paper/cardboard packaging	224 kg	Recycling Facilities
Plastics	735 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	2,126 m ³	Site Area
C&D materials reused in other projects	1,824 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, 424 m³ of inert C&D material was generated in the reporting month (416 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 6 m³ was broken concrete). For C&D wastes, 0 m³ of general refuse was disposed of at NENT landfill, 2 kg of paper/cardboard packaging, 2 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	416 m ³	Tuen Mun 38
Broken concrete	6 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	0 m ³	NENT Landfill
Paper/cardboard packaging	2 kg	Recycling Facilities
Plastics	2 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 should clean up the public access road and provide sufficient measures to keep the public access road clear of dusty material.
- The Contractor should provide wheel washing facilities at the vehicle exit point and clean up the mud trail for dust suppression.
- The Contractor should ensure valid labels are provided for all NRMM before operations.
- The Contractor should spray the open site area with sufficient water to prevent windblown dust emission.
- The Contractor should cover the stockpile entirely by impervious sheeting; or paved with hard surface and keep clear of dusty materials; to prevent windblown dust emission.
- The Contractor should ensure the area between the wheel washing facilities and the exit point paved with concrete, bituminous materials or hardcores.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor should remove the refuse to ensure flow of water without obstruction.

Chemical and Waste Management

- The Contractor should remove the construction wastes found near existing vegetation to keep the site clean and tidy.
- The Contractor should replace the faded warning label for the chemical storage area with proper warning label and display the label at the storage area.
- The Contractor should remove the excessive construction wastes and maintain the site clean and tidy.
- The Contractor was advised to provide chemical containers with drip trays to prevent potential leakage.
- The Contractor was advised to dispose of the oil in the drip tray as chemical waste and ensure the equipment is well-maintained.
- The Contractor was advised to remove the water in the drip tray to prevent overflow of chemical in case of spillage.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor remove the stagnant water and retained water in the skip to prevent mosquito breeding.

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

Air Quality Impact

- The Contractor should spray the open site areas with adequate water to prevent windblown dust emission.

Construction Noise Impact

- Nil.

Water Quality Impact

- Nil.

Chemical and Waste Management

- Nil.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor was advised to remove the water to prevent mosquito breeding.

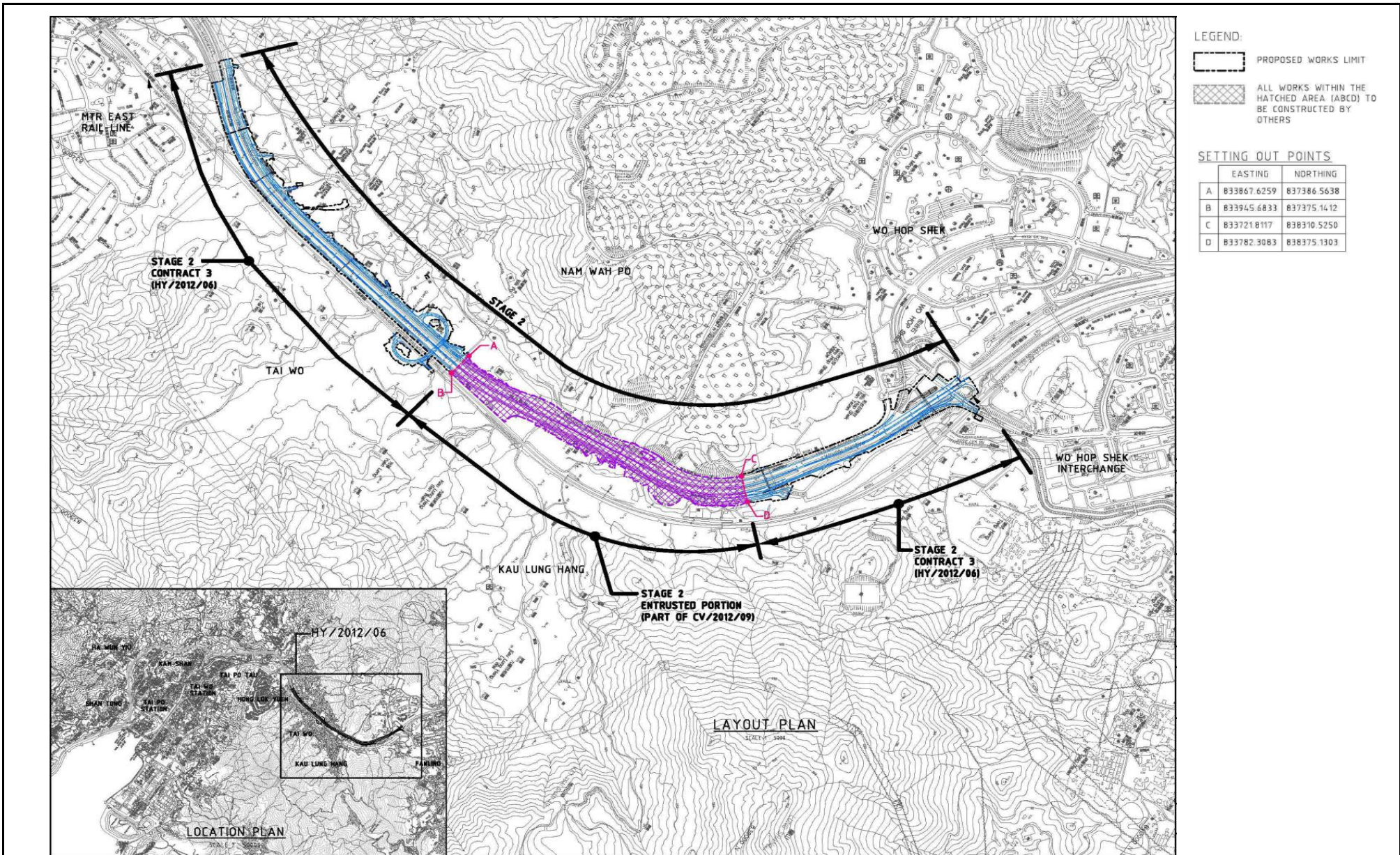
8.2 Recommendations

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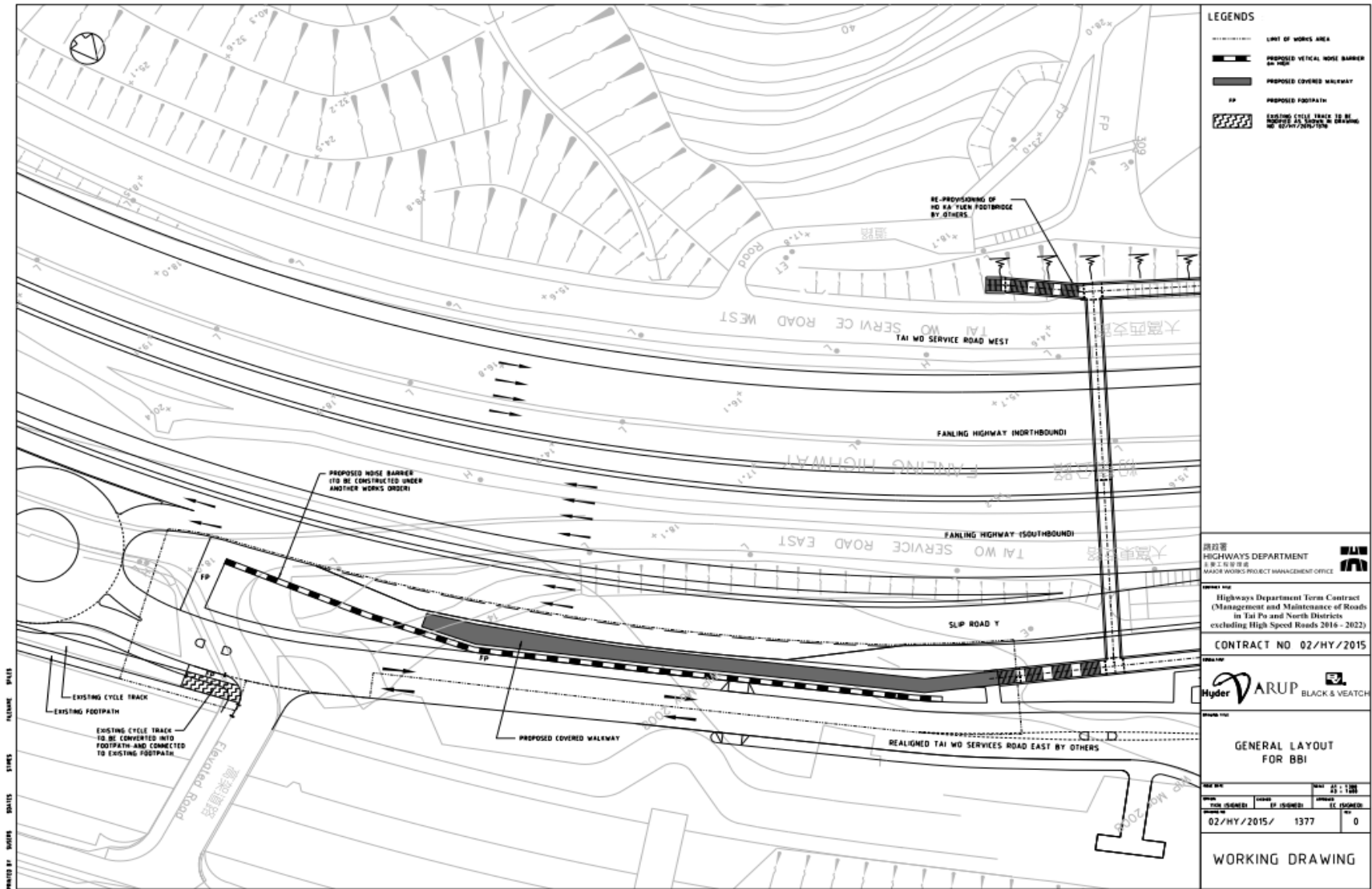
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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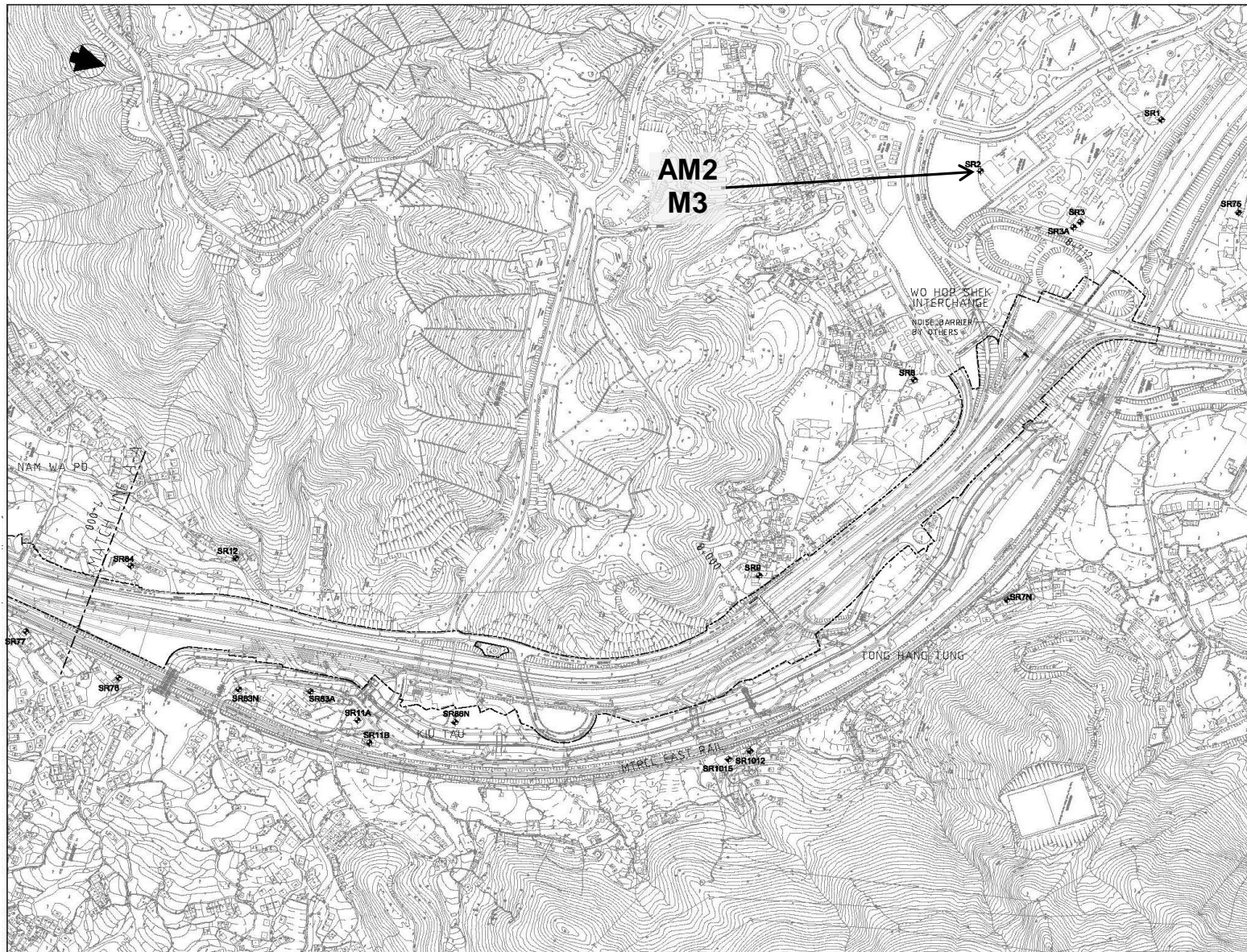
CONTRACT NO. 02/HY/2015
 PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



Layout Plan

Date: Apr 2017

Figure 1.2



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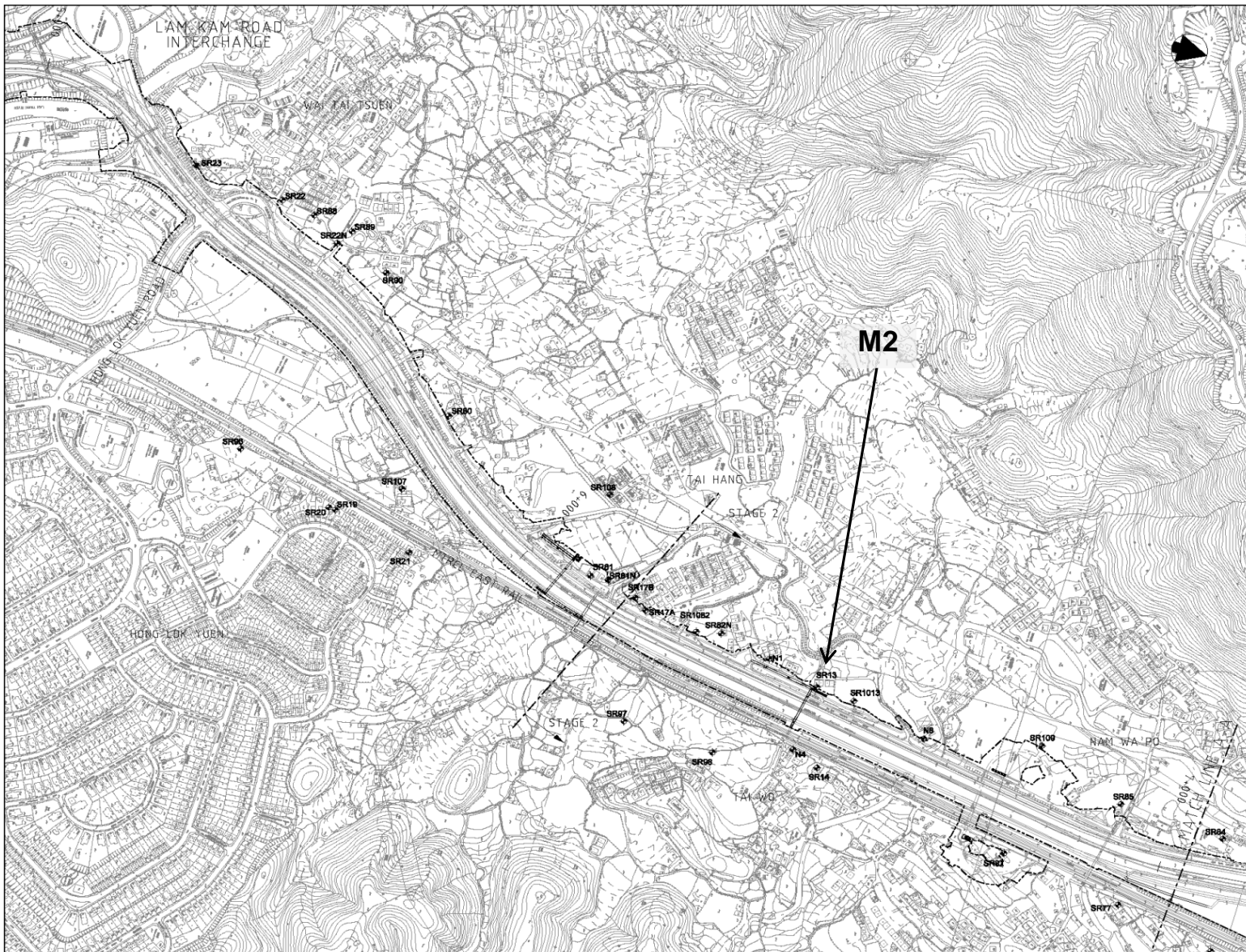
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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

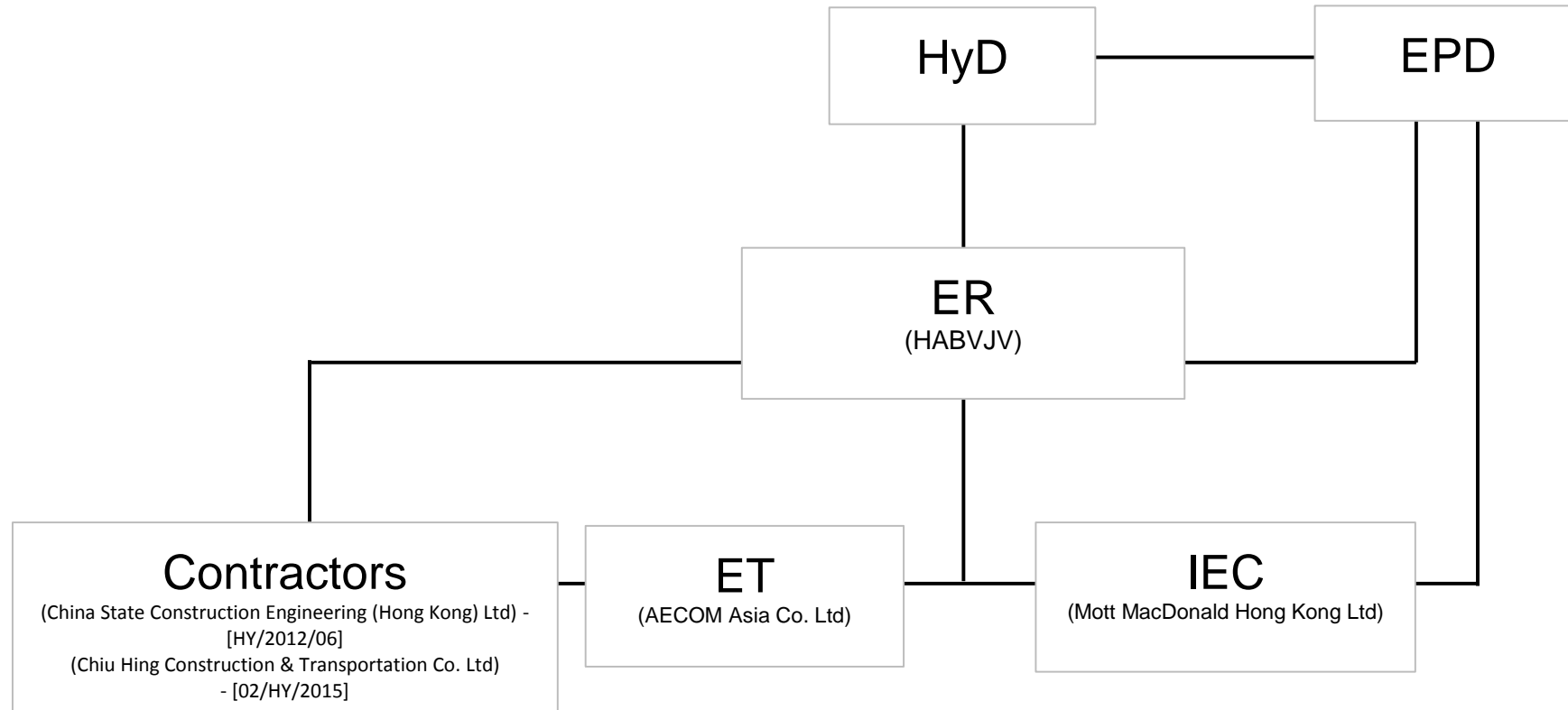


Locations of Monitoring Station

Date: Dec 2013

Figure 1.2b

**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
FEBRUARY 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Feb	Mar	Apr	May
Contract Condition											
General											
Contract Condition											
KD12	KD-12 (1239d) - S2: Achievement Demolition of Nam Wa Po	0%	0	0		21-Apr-17*	-66				21-Apr-17* ◆ KD-12 (1239d) - S2: Achi
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Feb-17		1235				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Feb-17*		-781				◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Feb-17*		-583				◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Feb-17*		-448				◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB42 (Ch.5640-5740)-TWSR West Side											
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10140	Firemain installation (along NB42)	94.67%	8	150	20-Aug-16 A	28-Feb-17	2				
Noise Barrier Along Fanling Highway N/B											
Site Clearance & Demolition of Existing Structure											
Underground Utility Works											
ADVZ20180	Utility cable changeover period (NWT)	29.47%	146	207	21-Dec-16 A	15-Jul-17	185				
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	29.81%	146	208	20-Dec-16 A	15-Jul-17	185				
TWSR-West Construction											
Drainage & Road Works											
Ch 5640-5880											
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	80.98%	35	184	15-Aug-16 A	31-Mar-17	0				
ZONE 2 (Ch. 5880 to 6930)											
General											
DRM Proposal											
DRM Proposal											
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	43.16%	162	285	20-Oct-16 A	31-Jul-17*	0				
ADVZ20220	New TWSR-W construction period	80.98%	35	184	15-Aug-16 A	31-Mar-17	0				
ADVZ20225	Divert Existing TWSR-W to New TWSR-W	0%	5	5	01-Apr-17	07-Apr-17	0				
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	0%	100	100	08-Apr-17	10-Aug-17	0				
Noise Barrier Along TWSR-West and Laying New Utilities											
NB48 (Ch.5995-6120)-TWSR West Side											
Noise Barrier Works											
NB00390	NB48 (Ch5995-6060) - backfilling	93.62%	6	94	05-Oct-16 A	25-Feb-17	998				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10440	Firemain installation (along NB48, 0-60m)	95.59%	9	204	20-Jun-16 A	01-Mar-17	1				
TSZ10490	Firemain installation (along NB48, 60-110m)	95.59%	9	204	20-Jun-16 A	01-Mar-17	1				
NB54 (Ch.6240-6280)-TWSR West Side											
Noise Barrier Works											
NB00720	NB54 - NB post & panel installation	0%	5	5	20-Feb-17	24-Feb-17	646				
NB54A (Ch.6290-6350)-TWSR West Side											
Noise Barrier Works											
NB00790	NB54A - NB post & panel installation	0%	5	5	20-Feb-17	24-Feb-17	646				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10680	Watermain installation (along NB54A)	94.53%	15	274	14-Mar-16 A	08-Mar-17	989				
TSZ10690	Firemain installation (along NB54A)	59.62%	21	52	19-Dec-16 A	15-Mar-17	0				
NB57 (Ch.6365-6445)-TWSR West Side											
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10730	Watermain installation (along NB57)	71.15%	15	52	12-Dec-16 A	08-Mar-17	0				
TSZ10740	Firemain installation (along NB57)	0%	20	20	21-Feb-17	15-Mar-17	0				
TSZ10990	Backfilling for UU and Firemain & Watermain	0%	12	12	16-Mar-17	29-Mar-17	0				
NB58 (Ch.6445-6480)-TWSR West Side											
Noise Barrier Works											
NB00930	NB58 - NB post & panel installation	83.8%	23	142	20-Sep-16 A	17-Mar-17	628				
NB59 (Ch.6490-6590)-TWSR West Side											
Noise Barrier Works											
NB01000	NB59 - NB post installation	89.19%	12	111	15-Oct-16 A	04-Mar-17	639				
Noise Barrier Along Fanling Highway N/B											
Site Clearance & Demolition of Existing Structure											
General											
ADVZ20160	TTA for NB works	0%	60	60	20-Feb-17	06-May-17	210				
Bridge Construction											
New Tai Hang Footbridge											
General											
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	98.7%	2	154	20-Jul-16 A	21-Feb-17	348				
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	22-Feb-17		348				◆ Steel Staircase & Bridge available on site (THFB-TWSR-E side)
TWSR-West/ FL Highway N/B Side Section											
THBF0620	Finishes Work	0%	60	60	20-Feb-17	06-May-17	380				
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		06-May-17	380				06-May-17 ◆ Bridge Stru
Crossing Fanling Highway Section											

	Project ID: WP Rev 04 (1702)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Feb-17)		Date	Revision	C...	A..
	Layout: 3 Month Rolling Program			13-May-14	WP Rev 1		
	Page 1 of 5			30-Jun-14	WP Rev 1A		
				28-Aug-15	WP Rev 2		
				07-Apr-16	WP Rev 3		
	08-Nov-16	WP Rev 4					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Feb	Mar	Apr	May
THBF0530	THP1 - Predrilling	0%	12	12	20-Feb-17	04-Mar-17	181				
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	45	45	06-Mar-17	02-May-17	181				
THBF0550	THP1 - Pile Test	0%	28	28	03-May-17	30-May-17	218				
THBF0560	THP1 - Pile cap, Pier and Pier Head	0%	100	100	17-May-17	12-Sep-17	182				
TWSR-East FL Highway S/B Side Section											
THBF0470	THAB1 - pile cap & abutment wall	62.39%	41	109	21-Nov-16 A	08-Apr-17	244				
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	10-Apr-17	08-May-17	244				
THBF0520	THP2 - Pile cap, Pier and Pier Head	0%	45	45	09-May-17	30-Jun-17	244				
THBF0730	THP3 - Pile cap, Pier and Pier Head	63.64%	36	99	26-Nov-16 A	01-Apr-17	314				
THBF0770	THP4 - Pile cap, Pier and Pier Head	82.21%	37	208	20-Jul-16 A	03-Apr-17	253				
THBF0780	Modified existing column head of existing footbridge	0%	30	30	04-Apr-17	15-May-17	253				
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	30	30	16-May-17	20-Jun-17	253				
Lift at TWSR-W Side											
L1520	Lift shaft & roof	74.16%	54	209	16-Jul-16 A	27-Apr-17	266				
L1530	Structural Laminated glass wall installation	0%	30	30	28-Apr-17	05-Jun-17	310				
L1540	RC Platform connect to bridge	0%	30	30	28-Apr-17	05-Jun-17	266				
L1557	Lift submission & ordering period	69.58%	73	240	02-Jul-16 A	22-May-17	321				
L1600	CLP Power available (by CLP)	54.06%	181	394	21-Jun-16 A	19-Aug-17	388				
Lift at FLHY S/B											
L1370	Lift shaft & roof	74.07%	35	135	20-Sep-16 A	31-Mar-17	302				
L1380	Structural Laminated glass wall installation	0%	30	30	01-Apr-17	12-May-17	332				
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	01-Apr-17	12-May-17	302				
L1400	Roof cover for RC Platform	0%	30	30	13-May-17	17-Jun-17	302				
L1450	CLP Power available (by CLP)	54.06%	181	394	21-Jun-16 A	19-Aug-17	391				
New Tai Wo Footbridge											
General											
TWFB1090	Steel Bridge prefabrication (TWFB)	73.76%	37	141	15-Aug-16 A	03-Apr-17	464				
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	04-Apr-17		464				◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section											
TWFB1370	Erect Staircase (TWFB-TWSR-W side)	68.63%	16	51	07-Dec-16 A	09-Mar-17	37				
TWFB1390	Finishes Work	0%	30	30	10-Mar-17	18-Apr-17	591				
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		18-Apr-17	591				18-Apr-17 ◆ Bridge Structure complete (
Crossing Fanling Highway Section											
TWFB1410	TWP2 - Predrilling	0%	18	18	27-Feb-17*	18-Mar-17	31				
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	30	30	20-Mar-17	27-Apr-17	31				
TWFB1430	TWP2 - Pile Test	0%	28	28	28-Apr-17	25-May-17	40				
TWFB1440	TWP2 - Pile cap	0%	45	45	12-May-17	05-Jul-17	33				
Lift at TWSR-W Side											
L1670	Lift shaft & roof	84.78%	35	230	21-Jun-16 A	31-Mar-17	422				
L1680	Structural Laminated glass wall installation	0%	30	30	01-Apr-17	12-May-17	465				
L1690	RC Link slab connect to bridge	0%	30	30	01-Apr-17	12-May-17	422				
L1700	Metal cover on RC platform	0%	30	30	13-May-17	17-Jun-17	422				
L1730	Lift submission & ordering period	63.27%	108	294	02-Jul-16 A	04-Jul-17	422				
L1780	CLP Power available (by CLP)	46.58%	211	395	20-Aug-16 A	18-Sep-17	526				
Temporary Tai Wo Footbridge											
Design Works											
TWFB-T1020	Engineer Comment	88.54%	22	192	28-Jun-16 A	16-Mar-17	22				
TWFB-T1030	Design amendment	0%	73	73	17-Mar-17	17-Jun-17	22				
TWSR-West Construction											
Drainage & Road Works											
Ch 5880-6740											
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	70.83%	35	120	01-Nov-16 A	31-Mar-17	0				
Noise Barrier Along Fanling Highway S/B											
NB46A (Ch.5880-5935)-FH S/B Side											
Noise Barrier Works											
NB03230	Sheet piling for DN600 watermain diversion work (VO70)	0%	14	14	20-Feb-17*	07-Mar-17	412				
NB03240	Excavation & DN600 pipe laying	0%	75	75	08-Mar-17	10-Jun-17	412				
NB51 (Ch.5935-6055)-FH S/B Side											
Noise Barrier Works											
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-Feb-17	12-Jun-17	506				
NB02320	NB51(25-118m) - Sheet piling & Excavation	79.07%	18	86	29-Oct-16 A	11-Mar-17	357				
NB02330	NB51(25-118m) - Footing & Wall Structure	0%	90	90	13-Mar-17	04-Jul-17	357				
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02370	NB52 - Sheet piling & Excavation	70.79%	26	89	04-Nov-16 A	21-Mar-17	570				
NB02380	NB52 - Footing & Wall Structure	50.5%	50	101	18-Nov-16 A	22-Apr-17	546				
NB02390	NB52- backfilling	0%	50	50	24-Apr-17	23-Jun-17	546				
NB02400	NB52 - NB production	0%	45	45	22-Apr-17	06-Jun-17	688				
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02430	Precautionary Measure installation	0%	26	26	20-Feb-17	21-Mar-17	452				
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	22-Mar-17	25-Apr-17	499				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Feb	Mar	Apr	May	
NB53 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	26-Apr-17	08-Jul-17	499					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	04-Apr-17	19-Apr-17	441					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	20-Apr-17	23-May-17	441					
NB02590	NB53 (125-180m) - NB production	94.59%	14	259	20-May-16 A	05-Mar-17	781					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	06-Mar-17	10-Mar-17	634					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	96.41%	24	669	07-Nov-14 A	18-Mar-17	441					
NB02650	NB55- backfilling	0%	50	50	20-Mar-17	23-May-17	441					
NB02660	NB55 - NB production	90.27%	40	411	15-Jan-16 A	31-Mar-17	755					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	95.99%	14	349	20-Feb-16 A	05-Mar-17	781					
NB02740	NB56 - NB post & panel installation	0%	5	5	06-Mar-17	10-Mar-17	634					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Feb-17	11-Mar-17	533					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	13-Mar-17	16-May-17	533					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	17-May-17	15-Jul-17	533					
NB02800	NB61 (0-50m) - NB production	0%	45	45	17-May-17	30-Jun-17	664					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Feb-17	05-Apr-17	750					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	06-Apr-17	11-Apr-17	608					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	88.16%	45	380	20-Feb-16 A	05-Apr-17	750					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	06-Apr-17	11-Apr-17	608					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	90.31%	57	588	01-Apr-15 A	02-May-17	554					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	04-May-17	26-May-17	569					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	03-May-17	16-Jun-17	678					
NB03040	NB61A (75-190m) - NB production	95.71%	15	350	20-Feb-16 A	06-Mar-17	780					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	07-Mar-17	11-Mar-17	633					
Box Culvert ID3 Works												
VO58 Extension of ID3												
ID30100	Demolish existing wing walls (N&S)	80%	6	30	08-Feb-17 A	25-Feb-17	197					
ID30110	Rock fill to the box culvert level	0%	20	20	27-Feb-17	21-Mar-17	197					
ID30120	Box culvert extension structure	0%	20	20	22-Mar-17	18-Apr-17	197					
ID30140	Wing Wall Construction	0%	75	75	19-Apr-17	19-Jul-17	471					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1090	New MCLT - finishes works	67.11%	99	301	20-May-16 A	22-Jun-17	552					
TCSS Works												
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-Feb-17	621					
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)												
Noise Barrier Along TWSR-West and Laying New Utilities												
NB63A (Ch.6710-6840)-TWSR West Side												
Noise Barrier Works												
NB01200	NB63A-3 - NB post installation	80.95%	24	126	17-Sep-16 A	18-Mar-17	627					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10880	Watermain installation (along NB63A)	79.81%	21	104	02-Nov-16 A	15-Mar-17	0					
TSZ10890	Firemain installation (along NB63A)	6.67%	28	30	16-Feb-17 A	23-Mar-17	0					
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												
NB001060	NB64 & NB64A-NB post & panel installation	89.12%	31	285	14-Mar-16 A	27-Mar-17	620					
NB003060	NB64A-Footing & Wall Structure - 1 bays	0%	35	35	22-Apr-17	05-Jun-17	567					
Bridge Construction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
KLH.1290	West Ramp - Planting	0%	21	21	20-Feb-17	15-Mar-17	630					
KLH Bridge - Deck 1												
KLH.3430	Deck 1 - Planting	0%	21	21	20-Feb-17	15-Mar-17	630					
KLH.3640	Pedestrian walkway floor finishes P2 to P3	0%	14	14	15-Mar-17	30-Mar-17	-44					
KLH Bridge - Deck 2												
KLH.3170	Pedestrian walkway floor finishes P5-P6 (include barrier and lighting)	0%	14	14	15-Mar-17	30-Mar-17	-44					
KLH.3270	Pedestrian walkway floor finishes P4 to P5 (include barrier and	0%	14	14	15-Mar-17	30-Mar-17	-44					
KLH.3370	Pedestrian walkway floor finishes P3 to P4 (include barrier and	0%	14	14	15-Mar-17	30-Mar-17	-44					
KLH Bridge - Deck 3												
KLH.3500	Deck 3 - Planting	0%	21	21	20-Feb-17	15-Mar-17	662					
KLH.3660	Pedestrian walkway floor finishes P6 to P7 (include barrier and	0%	14	14	20-Feb-17	07-Mar-17	-24					
KLH Bridge - East Ramp												
KLH.3590	East Ramp - Planting	0%	34	34	20-Feb-17	30-Mar-17	970					
KLH Bridge - Ramp R1												
Z2.KLH.1740	Ramp R1 complete	0%	0	0		14-Mar-17	-31					

20-Feb-17 ♦ Slow lane footing - G54 (NB61)

14-Mar-17 ♦ Ramp R1 complete

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Feb	Mar	Apr	May
Z2.KLH.3610	Ramp R1 - Steel roof	0%	35	28	19-Jan-17 A	31-Mar-17	8				
Z2.KLH.3620	Ramp R1 - finishes work (include barrier and lighting)	0%	12	12	01-Mar-17*	14-Mar-17	0				
KLH Bridge - Ramp R2											
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-Feb-17*	18-Mar-17	601				
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	20-Mar-17	22-Apr-17	601				
Z2.KLH.1550	Ramp R2 - Steel roof	0%	24	24	13-Mar-17	10-Apr-17	-53				
Z2.KLH.1920	Ramp R2 - finishes work (include barrier and lighting)	0%	25	25	20-Feb-17	20-Mar-17	-36				
Z2.KLH.2050	Factory fabrication	61.7%	18	47	12-Jan-17 A	11-Mar-17	-53				
Bridge Road Work											
Z2.KLH.2030	Diversion of existing pedestrian to proposed Kiu Lung Hang Vehicular	0%	1	1	11-Apr-17	11-Apr-17	-53				
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Feb-17	18-Jul-17	531				
Lift at TWSR-W Side											
L01040	Temp work & Pile cap	0%	45	45	15-Mar-17	12-May-17	391				
L01050	Lift pit	0%	24	24	13-May-17	10-Jun-17	391				
L01094	Lift submission & ordering period	44.51%	177	319	01-Aug-16 A	22-Sep-17	385				
L01140	CLP Power available (by CLP)	72.69%	121	443	04-Apr-16 A	20-Jun-17	654				
Lift at FLHY S/B											
L01180	Earliest date for lift construction resume	0%	0	0	20-Feb-17		366				
L01190	Set up & Pile test	0%	30	30	20-Feb-17	25-Mar-17	366				
L01200	Temp work & Pier cap	0%	45	45	27-Mar-17	24-May-17	366				
L01300	CLP Power available (by CLP)	67.93%	152	474	04-Apr-16 A	21-Jul-17	629				
Demolition of Existing Nam Wa Po Footbridge											
Demolition Work											
Z2.NWP.1060	Temporary support installation at existing Fanling Highway	0%	30	30	07-Mar-17	11-Apr-17	-53				
Z2.NWP.1070	Removal of existing NWP Footbridge	0%	6	6	12-Apr-17	21-Apr-17	-53				
Z2.NWP.1090	Existing Nam Wa Po Footbridge removed	0%	0	0		21-Apr-17	-53				
Z2.NWP.1130	Procurement period for VO	0%	21	21	25-Jan-17 A	15-Mar-17	-46				
Z2.NWP.1140	Temp Lighting Design and submission	0%	14	14	20-Feb-17	07-Mar-17	-53				
Z2.NWP.1150	Design approval	0%	14	14	08-Mar-17	23-Mar-17	-53				
Z2.NWP.1160	Temp lighting installation	0%	15	15	24-Mar-17	11-Apr-17	-53				
TWSR-West Construction											
Drainage & Road Works											
General											
CW01	1st interface connection to CW at S/B	0%	0	0		20-Feb-17	-19				
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	0%	60	60	22-Apr-17	05-Jul-17	52				
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	51.67%	29	60	12-Dec-16 A	24-Mar-17	582				
NB03100	NB62 (0-80m) - backfilling	0%	20	20	25-Mar-17	21-Apr-17	597				
NB03110	NB62 (0-80m) - NB production	0%	45	45	25-Mar-17	08-May-17	717				
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	09-May-17	13-May-17	585				
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-Feb-17*	04-Mar-17	521				
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	06-Mar-17	03-Apr-17	574				
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	04-Apr-17	24-Apr-17	595				
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	04-Apr-17	18-May-17	707				
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	19-May-17	24-May-17	576				
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	06-Mar-17	25-Mar-17	521				
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	27-Mar-17	12-Jun-17	521				
NB70 (Ch.6910-6930)-FH S/B Side											
Noise Barrier Works											
NB03290	NB70- NB post & panel installation	0%	5	5	20-Feb-17	24-Feb-17	646				
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											
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Feb-17	25-Mar-17	653				
HKY1440	Remaining Finishes works of HKYFB	45.03%	83	151	21-Nov-16 A	03-Jun-17	555				
TWSR-East FL Highway S/B Side Section											
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	73.21%	30	112	13-Oct-16 A	25-Mar-17	653				
Other Works											
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1000	Slope S51-Fill ~3m	0%	40	40	20-Feb-17	07-Apr-17	547				
ZONE 4 (Ch. 7925 to 8700)											
Noise Barrier Along Fanling Highway N/B											
NB75 (Ch.7930-8090)-FH N/B Side											
Noise Barrier Works											
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	0%	60	60	20-Feb-17	06-May-17	39				
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	08-May-17	31-May-17	39				
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	06-May-17	20-Jun-17	210				
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	0%	30	30	20-Feb-17	25-Mar-17	77				
NB4130	NB75 - backfilling (Ch7990-8000)-(HKY-P1)	0%	12	12	27-Mar-17	10-Apr-17	77				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Feb	Mar	Apr	May
NB4140	NB75 - NB production (Ch7990-8000)-(HKY-P1)	0%	45	45	25-Mar-17	09-May-17	258				
NB4170	NB75 - piling (NB75/07-10, 0.19m -20no)	0%	10	10	15-Feb-17 A	02-Mar-17	32				
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	0%	50	50	03-Mar-17	06-May-17	40				
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	06-May-17	20-Jun-17	216				
NB4230	NB75 - piling (NB75/11-14, 0.19m -18no)	0%	9	9	03-Mar-17	13-Mar-17	32				
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	0%	50	50	08-May-17	06-Jul-17	40				
NB77 (Ch.8090-8450)-FH N/B Side											
Noise Barrier Works											
NB4300	NB77 - piling (NB77/01-08, 0.19m -34no)	0%	18	18	14-Mar-17	03-Apr-17	32				
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	0%	90	90	04-Apr-17	26-Jul-17	32				
NB4360	NB77 - piling (NB77/09-17, 0.19m -36no)	0%	18	18	04-Apr-17	28-Apr-17	58				
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	90	90	29-Apr-17	16-Aug-17	66				
NB4420	NB77 - piling (NB77/18-25, 0.19m -34no)	0%	26	26	29-Apr-17	01-Jun-17	58				
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	0%	20	20	20-Feb-17	14-Mar-17	134				
Bridge Construction											
New Wo Hop Shek Pedstrian & Cycle Bridge											
TWSR-West/ FL Highway N/B Side Section											
WHS1360	WHSAB2 - Pre-bored H pile (9 nos) (VO018)	0%	30	30	20-Feb-17	25-Mar-17	309				
WHS1370	WHSAB2, P8, P9 - Pile Test	0%	28	28	25-Mar-17	22-Apr-17	384				
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	0%	90	90	10-Apr-17	31-Jul-17	310				
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge											
Crossing Fanling Highway Section											
WHS1800	Demolish existing WHS Footbridge	0%	60	60	16-Feb-17 A	06-May-17	407				
WHS1810	Removal of temporary platform	0%	30	30	08-May-17	12-Jun-17	407				
TWSR-East FL Highway S/B Side Section											
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A	0%	20	20	20-Feb-17	14-Mar-17	527				
Slip Road Y Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41085	Construct Slip Rd Y (Ch7925-8050)(SA346) - remaining	0%	150	150	20-Feb-17	22-Aug-17	321				
Underground Utility Works											
DN600 and DN900 Watermain											
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	110	110	13-Apr-17	26-Aug-17	2				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Feb-17	22-Aug-17	383				
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%	145	145	20-Feb-17	16-Aug-17	195				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1075	Temp Shoring & Excavation	75.56%	11	45	01-Feb-17 A	03-Mar-17	85				
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-20)	0%	35	35	04-Mar-17	18-Apr-17	85				
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	27-Mar-17	31-May-17	76				
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	0%	30	30	01-Feb-17 A	25-Mar-17	76				
RWZ4.1160	CLP 132kV cable diversion	73.86%	23	88	15-Nov-16 A	17-Mar-17	2				
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	0%	21	21	18-Mar-17	12-Apr-17	2				
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	13-Apr-17		2				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	0%	38	32	20-Jan-17 A	04-Apr-17	53				
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	06-Apr-17	16-May-17	53				
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	17-May-17	27-Jun-17	53				
Retaining Wall W78											
TWSR-East FL Highway S/B Side Section											
RWZ4.0900	Site Clearance	0%	30	30	20-Feb-17	25-Mar-17	126				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Feb-17	13-Apr-17	158				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	14-Apr-17	04-May-17	195				
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	05-May-17	25-May-17	162				
G35											
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	0%	30	30	20-Feb-17	25-Mar-17	411				
FVMS2 (Deleted by RFI-138, Pending for VO)											
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Feb-17	25-Mar-17	531				

◆ DN600 pipe installation ready to start

**CONSTRUCTION PROGRAMME OF
MARCH 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Mar	Apr	May	Jun	
Contract Condition												
General												
Contract Condition												
KD12	KD-12 (1239d) - S2: Achievement Demolition of Nam Wa Po	0%	0	0		10-Jun-17*	-116					10-Jun-17* ◆ KD-12
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Mar-17		1207					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Mar-17*		-809					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Mar-17*		-611					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Mar-17*		-476					◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along TWSR-West and Laying New Utilities												
NB42 (Ch.5640-5740)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10140	Firemain installation (along NB42)	84.21%	24	152	20-Aug-16 A	20-Apr-17	2					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
Underground Utility Works												
ADVZ20180	Utility cable changeover period (NWT)	43%	118	207	21-Dec-16 A	15-Jul-17	185					
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	43.27%	118	208	20-Dec-16 A	15-Jul-17	185					
TWSR-West Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	82.61%	32	184	15-Aug-16 A	29-Apr-17	9					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	52.98%	134	285	20-Oct-16 A	31-Jul-17*	0					
ADVZ20220	New TWSR-W construction period	78.8%	39	184	15-Aug-16 A	10-May-17	2					
ADVZ20225	Divert Existing TWSR-W to New TWSR-W	0%	5	5	11-May-17	16-May-17	2					
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	0%	100	100	06-Apr-17	08-Aug-17	2					
Noise Barrier Along TWSR-West and Laying New Utilities												
NB48 (Ch.5995-6120)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10440	Firemain installation (along NB48, 0-60m)	92.2%	16	205	20-Jun-16 A	07-Apr-17	10					
NB54 (Ch.6240-6280)-TWSR West Side												
Noise Barrier Works												
NB00720	NB54 - NB post & panel installation	0%	5	5	01-Apr-17*	07-Apr-17	0					
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00790	NB54A - NB post & panel installation	0%	5	5	18-Apr-17*	22-Apr-17	0					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10680	Watermain installation (along NB54A)	92.71%	21	288	14-Mar-16 A	13-Apr-17	959					
TSZ10690	Firemain installation (along NB54A)	60%	26	65	19-Dec-16 A	22-Apr-17	3					
NB58 (Ch.6445-6480)-TWSR West Side												
Noise Barrier Works												
NB00930	NB58 - NB post & panel installation	88.73%	16	142	20-Sep-16 A	07-Apr-17	611					
NB59 (Ch.6490-6590)-TWSR West Side												
Noise Barrier Works												
NB01000	NB59 - NB post installation	89.19%	12	111	15-Oct-16 A	01-Apr-17	615					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20160	TTA for NB works	0%	60	60	20-Mar-17	05-Jun-17	186					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	57.8%	73	173	20-Jul-16 A	20-Jun-17	253					
TWSR-West/ FL Highway N/B Side Section												
THBF0620	Finishes Work	0%	60	60	27-Feb-17 A	05-Jun-17	356					
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		05-Jun-17	356					05-Jun-17 ◆ Bridge Struc
Crossing Fanling Highway Section												
THBF0530	THP1 - Predrilling	0%	12	12	20-Mar-17	01-Apr-17	187					
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	45	45	03-Apr-17	01-Jun-17	187					
THBF0550	THP1 - Pile Test	0%	28	28	02-Jun-17	29-Jun-17	227					
THBF0560	THP1 - Pile cap, Pier and Pier Head	0%	100	100	16-Jun-17	13-Oct-17	187					
TWSR-East FL Highway S/B Side Section												
THBF0470	THAB1 - pile cap & abutment wall	62.39%	41	109	21-Nov-16 A	12-May-17	919					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	13-May-17	06-Jun-17	919					
THBF0520	THP2 - Pile cap, Pier and Pier Head	0%	82	45	20-Mar-17 A	30-Jun-17	244					
THBF0730	THP3 - Pile cap, Pier and Pier Head	88.89%	11	99	26-Nov-16 A	31-Mar-17	315					

	Project ID: WP Rev 04 (1703)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Mar-17)</p>		Date	Revision	C...	A..
	Layout: 3 Month Rolling Program			13-May-14	WP Rev 1		
Page 1 of 5				30-Jun-14	WP Rev 1A		
				28-Aug-15	WP Rev 2		
				07-Apr-16	WP Rev 3		
				08-Nov-16	WP Rev 4		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Mar	Apr	May	Jun
THBF0770	THP4 - Pile cap, Pier and Pier Head	91.35%	18	208	20-Jul-16 A	10-Apr-17	248				
THBF0780	Modified existing column head of existing footbridge	0%	30	30	11-Apr-17	20-May-17	248				
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	30	30	22-May-17	26-Jun-17	248				
Lift at TWSR-W Side											
L1520	Lift shaft & roof	76.32%	54	228	16-Jul-16 A	27-May-17	242				
L1530	Structural Laminated glass wall installation	0%	30	30	29-May-17	04-Jul-17	286				
L1540	RC Platform connect to bridge	0%	30	30	29-May-17	04-Jul-17	242				
L1557	Lift submission & ordering period	81.08%	49	259	02-Jul-16 A	22-May-17	321				
L1600	CLP Power available (by CLP)	64%	153	425	21-Jun-16 A	19-Aug-17	388				
Lift at FLHY S/B											
L1370	Lift shaft & roof	63.64%	56	154	20-Sep-16 A	31-May-17	257				
L1380	Structural Laminated glass wall installation	0%	30	30	01-Jun-17	06-Jul-17	287				
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	01-Jun-17	06-Jul-17	257				
L1450	CLP Power available (by CLP)	64%	153	425	21-Jun-16 A	19-Aug-17	391				
New Tai Wo Footbridge											
General											
TWFB1090	Steel Bridge prefabrication (TWFB)	80.11%	37	186	15-Aug-16 A	08-May-17	440				
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	09-May-17		440				◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section											
TWFB1370	Erect Staircase (TWFB-TWSR-W side)	70%	21	70	07-Dec-16 A	13-Apr-17	562				
TWFB1390	Finishes Work	0%	30	30	18-Apr-17	24-May-17	562				
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		24-May-17	562				24-May-17 ◆ Bridge Structure comp
Crossing Fanling Highway Section											
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	30	30	20-Mar-17	27-Apr-17	31				
TWFB1430	TWP2 - Pile Test	0%	28	28	28-Apr-17	25-May-17	40				
TWFB1440	TWP2 - Pile cap	0%	45	45	12-May-17	05-Jul-17	33				
Lift at TWSR-W Side											
L1670	Lift shaft & roof	84.78%	35	230	21-Jun-16 A	05-May-17	398				
L1680	Structural Laminated glass wall installation	0%	30	30	06-May-17	10-Jun-17	441				
L1690	RC Link slab connect to bridge	0%	30	30	06-May-17	10-Jun-17	398				
L1700	Metal cover on RC platform	0%	30	30	12-Jun-17	17-Jul-17	398				
L1730	Lift submission & ordering period	71.43%	84	294	02-Jul-16 A	04-Jul-17	422				
L1780	CLP Power available (by CLP)	53.67%	183	395	20-Aug-16 A	18-Sep-17	526				
Temporary Tai Wo Footbridge											
Design Works											
TWFB-T1030	Design amendment	23.29%	56	73	01-Dec-16 A	31-May-17	37				
TWFB-T1040	Design Available	0%	0	0		31-May-17	37				31-May-17 ◆ Design Available
Construction Works											
TWFB-T1205	Erect Temp Column at FLHY N/B (besides TW-P2)	0%	100	100	01-Jun-17	26-Sep-17	37				
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	150	150	01-Jun-17	27-Nov-17	101				
TWSR-West Construction											
Drainage & Road Works											
General											
HW.1025	Processing time allowance for Gazetting Express Way Changes	0%	182	182	08-Jun-17	06-Dec-17	2				
Ch 5880-6740											
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	70.83%	35	120	01-Nov-16 A	10-May-17	2				
Noise Barrier Along Fanling Highway S/B											
NB46A (Ch.5880-5935)-FH S/B Side											
Noise Barrier Works											
NB03240	Excavation & DN600 pipe laying	13.33%	65	75	08-Mar-17 A	10-Jun-17	412				
NB03300	DN600 water connection by WSD	0%	14	14	12-Jun-17	27-Jun-17	412				
NB51 (Ch.5935-6055)-FH S/B Side											
Noise Barrier Works											
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-Feb-17 A	11-Jul-17	482				
NB02330	NB51(25-118m) - Footing & Wall Structure	6.67%	84	90	13-Mar-17 A	04-Jul-17	357				
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02370	NB52 - Sheet piling & Excavation	75.93%	26	108	04-Nov-16 A	22-Apr-17	546				
NB02380	NB52 - Footing & Wall Structure	58.33%	50	120	18-Nov-16 A	23-May-17	522				
NB02390	NB52- backfilling	0%	50	50	24-May-17	22-Jul-17	522				
NB02400	NB52 - NB production	0%	45	45	24-May-17	07-Jul-17	657				
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02430	Precautionary Measure installation	0%	26	26	20-Mar-17	22-Apr-17	428				
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	24-Apr-17	25-May-17	475				
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	26-May-17	05-Aug-17	475				
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	09-May-17	19-May-17	417				
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	20-May-17	21-Jun-17	417				
NB02590	NB53 (125-180m) - NB production	95.17%	14	290	20-May-16 A	02-Apr-17	753				
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	03-Apr-17	08-Apr-17	610				
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02640	NB55 - Footing & Wall Structure	96.51%	24	688	07-Nov-14 A	20-Apr-17	417				

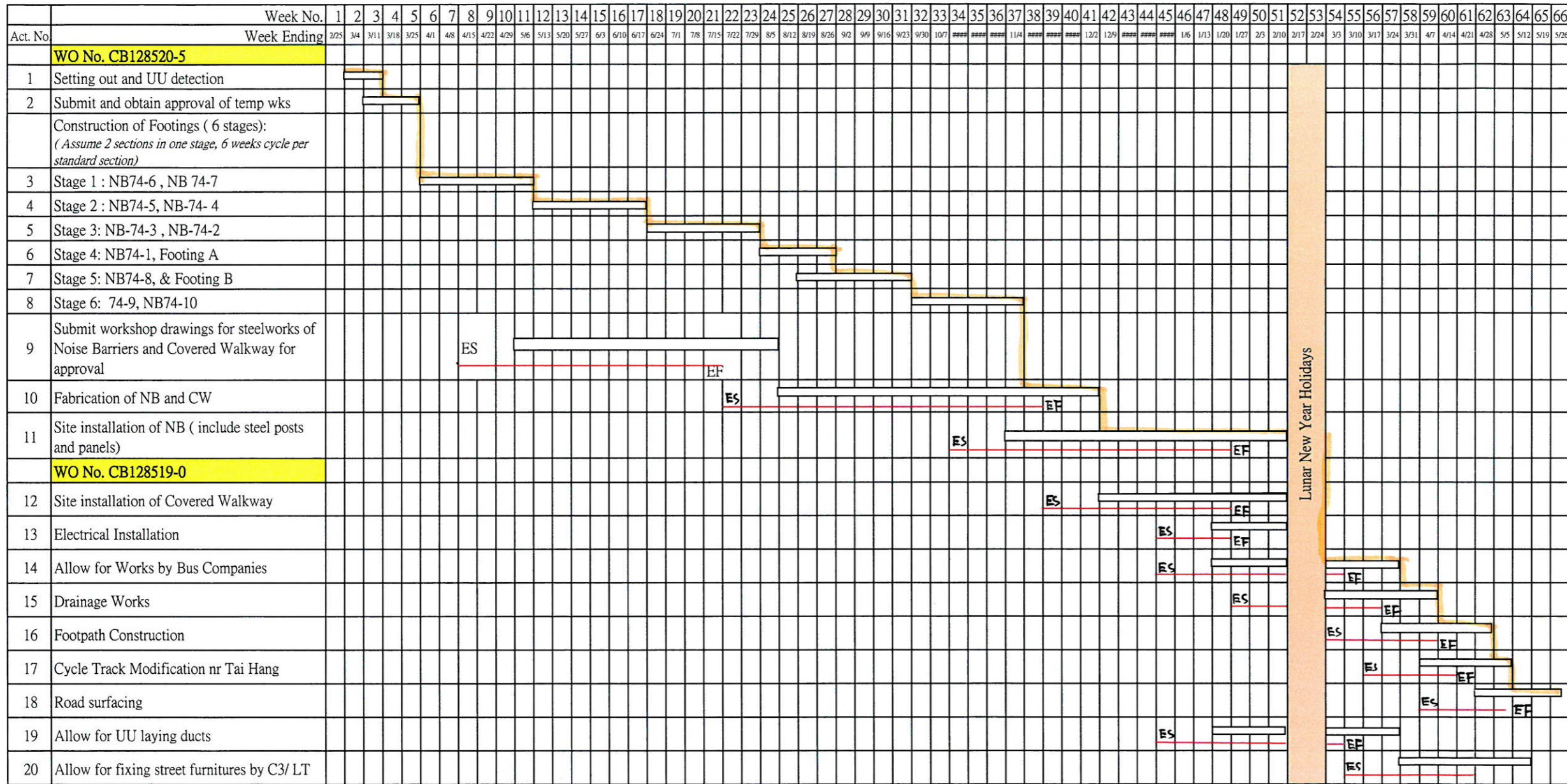
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Mar	Apr	May	Jun
NB02650	NB55- backfilling	0%	50	50	21-Apr-17	21-Jun-17	417				
NB02660	NB55 - NB production	90.95%	40	442	15-Jan-16 A	28-Apr-17	727				
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02730	NB56 - NB production	96.32%	14	380	20-Feb-16 A	02-Apr-17	753				
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Apr-17	08-Apr-17	610				
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Mar-17	10-Apr-17	509				
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	11-Apr-17	14-Jun-17	509				
NB02790	NB61 (0-50m)- backfilling	0%	50	50	15-Jun-17	12-Aug-17	509				
NB02800	NB61 (0-50m) - NB production	0%	45	45	15-Jun-17	29-Jul-17	635				
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Mar-17	03-May-17	722				
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-May-17	09-May-17	589				
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02920	NB61A (0-50m) - NB production	89.05%	45	411	20-Feb-16 A	03-May-17	722				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-May-17	09-May-17	589				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	90.61%	57	607	01-Apr-15 A	01-Jun-17	530				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	02-Jun-17	24-Jun-17	545				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	02-Jun-17	16-Jul-17	648				
NB03040	NB61A (75-190m) - NB production	96.06%	15	381	20-Feb-16 A	03-Apr-17	752				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Apr-17	10-Apr-17	609				
Box Culvert ID3 Works											
VO58 Extension of ID3											
ID30100	Demolish existing wing walls (N&S)	62.5%	6	16	08-Feb-17 A	25-Mar-17	193				
ID30120	Box culvert extension structure	0%	20	20	27-Mar-17	22-Apr-17	193				
ID30140	Wing Wall Construction	0%	75	75	24-Apr-17	24-Jul-17	467				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1090	New MCLT - finishes works	69.06%	99	320	20-May-16 A	21-Jul-17	528				
TCSS Works											
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-Mar-17	597				20-Mar-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											
NB63A (Ch.6710-6840)-TWSR West Side											
Noise Barrier Works											
NB01200	NB63A-3 - NB post installation	83.45%	24	145	17-Sep-16 A	20-Apr-17	603				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10880	Watermain installation (along NB63A)	80%	21	105	02-Nov-16 A	13-Apr-17	6				
TSZ10890	Firemain installation (along NB63A)	9.68%	28	31	16-Feb-17 A	25-Apr-17	6				
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB001060	NB64 & NB64A-NB post & panel installation	89.8%	31	304	14-Mar-16 A	28-Apr-17	596				
NB003060	NB64A-Footing & Wall Structure - 1 bays	0%	35	35	12-Jun-17	22-Jul-17	527				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
KLH.1290	West Ramp - Planting	0%	21	21	20-Mar-17	13-Apr-17	606				
KLH Bridge - Deck 1											
KLH.3430	Deck 1 - Planting	0%	21	21	20-Mar-17	13-Apr-17	606				
KLH.3640	Pedestrian walkway floor finishes P2 to P3	0%	14	14	11-Apr-17	29-Apr-17	-66				
KLH Bridge - Deck 2											
KLH.3170	Pedestrian walkway floor finishes P5-P6 (include barrier and lighting)	0%	14	14	11-Apr-17	29-Apr-17	-66				
KLH.3270	Pedestrian walkway floor finishes P4 to P5 (include barrier and	0%	14	14	11-Apr-17	29-Apr-17	-66				
KLH.3370	Pedestrian walkway floor finishes P3 to P4 (include barrier and	0%	14	14	11-Apr-17	29-Apr-17	-66				
KLH Bridge - Deck 3											
KLH.3500	Deck 3 - Planting	0%	21	21	20-Mar-17	13-Apr-17	638				
KLH.3660	Pedestrian walkway floor finishes P6 to P7 (include barrier and	0%	14	14	20-Mar-17	04-Apr-17	-48				
KLH Bridge - East Ramp											
KLH.3590	East Ramp - Planting	0%	34	34	20-Mar-17	04-May-17	946				
KLH Bridge - Ramp R1											
Z2.KLH.1740	Ramp R1 complete	0%	0	0		10-Apr-17	-53				10-Apr-17 ♦ Ramp R1 complete
Z2.KLH.3610	Ramp R1 - Steel roof	80%	11	55	19-Jan-17 A	31-Mar-17	-66				
Z2.KLH.3620	Ramp R1 - finishes work (include barrier and lighting)	0%	7	7	01-Apr-17	10-Apr-17	-66				
KLH Bridge - Ramp R2											
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-Mar-17*	20-Apr-17	577				
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	21-Apr-17	23-May-17	577				
Z2.KLH.1550	Ramp R2 - Steel roof	33.33%	16	24	14-Mar-17 A	07-Apr-17	-60				
Z2.KLH.1920	Ramp R2 - finishes work (include barrier and lighting)	0%	9	9	08-Apr-17	21-Apr-17	-60				
Bridge Road Work											
Z2.KLH.2030	Diversion of existing pedestrian to proposed Kiu Lung Hang Vehicular	0%	1	1	22-Apr-17	22-Apr-17	-60				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Mar	Apr	May	Jun
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Mar-17	15-Aug-17	507				
Lift at TWSR-W Side											
L01040	Temp work & Pile cap	0%	45	45	11-Apr-17	08-Jun-17	369				
L01050	Lift pit	0%	24	24	09-Jun-17	07-Jul-17	369				
L01094	Lift submission & ordering period	54.73%	153	338	01-Aug-16 A	22-Sep-17	385				
L01140	CLP Power available (by CLP)	79.01%	93	443	04-Apr-16 A	20-Jun-17	654				
Lift at FLHY S/B											
L01200	Temp work & Pier cap	0%	45	45	10-Mar-17 A	17-May-17	372				
L01210	Lift pit	0%	30	30	18-May-17	22-Jun-17	372				
L01300	CLP Power available (by CLP)	80.17%	94	474	04-Apr-16 A	21-Jun-17	659				
Demolition of Existing Nam Wa Po Footbridge											
Demolition Work											
Z2.NWP.1060	Temporary support installation at existing Fanling Highway	0%	30	30	20-Mar-17	27-Apr-17	-64				
Z2.NWP.1070	Removal of existing NWP Footbridge	0%	6	6	05-Jun-17	10-Jun-17	-93				
Z2.NWP.1090	Existing Nam Wa Po Footbridge removed	0%	0	0		10-Jun-17	-93				10-Jun-17 ♦ Existing
Z2.NWP.1130	Procurement period for VO	55.56%	16	36	25-Jan-17 A	07-Apr-17	-93				
Z2.NWP.1140	Temp Lighting Design and submission	0%	14	14	08-Apr-17	27-Apr-17	-93				
Z2.NWP.1150	Design approval	0%	14	14	28-Apr-17	16-May-17	-93				
Z2.NWP.1160	Temp lighting installation	0%	15	15	17-May-17	03-Jun-17	-93				
TWSR-West Construction											
Drainage & Road Works											
General											
CW01	1st interface connection to CW at S/B	0%	0	0		20-Mar-17	-47				20-Mar-17* ♦ 1st interface connection to CW at S/B
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	0%	60	60	12-Jun-17	21-Aug-17	12				
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	63.29%	29	79	12-Dec-16 A	26-Apr-17	558				
NB03100	NB62 (0-80m) - backfilling	0%	20	20	27-Apr-17	22-May-17	573				
NB03110	NB62 (0-80m) - NB production	0%	45	45	27-Apr-17	10-Jun-17	684				
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	12-Jun-17	16-Jun-17	557				
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-Mar-17*	01-Apr-17	497				
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	03-Apr-17	08-May-17	550				
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	09-May-17	24-May-17	571				
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	09-May-17	22-Jun-17	672				
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	03-Apr-17	27-Apr-17	497				
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	28-Apr-17	11-Jul-17	497				
NB70 (Ch.6910-6930)-FH S/B Side											
Noise Barrier Works											
NB03290	NB70- NB post & panel installation	0%	5	5	20-Mar-17	24-Mar-17	622				
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											
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Mar-17	27-Apr-17	629				
HKY1440	Remaining Finishes works of HKYFB	45.03%	83	151	21-Nov-16 A	03-Jul-17	531				
TWSR-East FL Highway S/B Side Section											
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	77.1%	30	131	13-Oct-16 A	27-Apr-17	629				
Other Works											
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1000	Slope S51-Fill ~3m	0%	40	40	20-Mar-17	11-May-17	523				
ZONE 4 (Ch. 7925 to 8700)											
Noise Barrier Along Fanling Highway N/B											
NB75 (Ch.7930-8090)-FH N/B Side											
Noise Barrier Works											
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	0%	60	60	20-Mar-17	05-Jun-17	15				
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	06-Jun-17	28-Jun-17	15				
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	06-Jun-17	20-Jul-17	180				
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	0%	30	30	20-Mar-17	27-Apr-17	53				
NB4130	NB75 - backfilling (Ch7990-8000)-(HKY-P1)	0%	12	12	28-Apr-17	13-May-17	53				
NB4140	NB75 - NB production (Ch7990-8000)-(HKY-P1)	0%	45	45	28-Apr-17	11-Jun-17	225				
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	0%	50	50	20-Mar-17	23-May-17	26				
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	24-May-17	07-Jul-17	199				
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	0%	50	50	24-May-17	22-Jul-17	26				
NB77 (Ch.8090-8450)-FH N/B Side											
Noise Barrier Works											
NB4300	NB77 - piling (NB77/01-08, 0.19m ~34no)	0%	18	18	28-Feb-17 A	10-Apr-17	27				
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	0%	90	90	11-Apr-17	01-Aug-17	27				
NB4360	NB77 - piling (NB77/09-17, 0.19m ~36no)	0%	18	18	11-Apr-17	06-May-17	53				
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	90	90	08-May-17	22-Aug-17	61				
NB4420	NB77 - piling (NB77/18-25, 0.19m ~34no)	0%	26	26	08-May-17	07-Jun-17	53				
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	0%	20	20	20-Mar-17	12-Apr-17	110				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Mar	Apr	May	Jun
NB4480	NB77 - piling (NB77/26-29, 0.19m -28no)	0%	14	14	08-Jun-17	23-Jun-17	68				
Bridge Construction											
New Wo Hop Shek Pedstrian & Cycle Bridge											
General											
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		12-Apr-17	503		12-Apr-17	◆ Existing Wo Hop Shek Bridge Demolished	
TWSR-West/ FL Highway N/B Side Section											
WHS1360	WHSAB2 - Pre-bored H pile (9 nos) (VO018)	0%	30	30	20-Mar-17	27-Apr-17	285				
WHS1370	WHSAB2, P8, P9 - Pile Test	0%	28	28	28-Apr-17	25-May-17	351				
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	0%	90	90	12-May-17	26-Aug-17	287				
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge											
TWSR-East FL Highway S/B Side Section											
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A	0%	20	20	20-Mar-17	12-Apr-17	503				
Slip Road Y Construction											
Underground Utility Works											
DN600 and DN900 Watermain											
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	110	110	18-Apr-17	28-Aug-17	1				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Mar-17	19-Sep-17	359				
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%	145	145	20-Mar-17	13-Sep-17	171				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1075	Temp Shoring & Excavation	52.17%	11	23	01-Feb-17 A	31-Mar-17	61				
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-20)	0%	35	35	01-Apr-17	18-May-17	61				
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	28-Apr-17	28-Jun-17	52				
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	28.57%	30	42	01-Feb-17 A	27-Apr-17	52				
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	0%	21	21	20-Mar-17	13-Apr-17	1				
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	18-Apr-17		1				◆ DN600 pipe installation ready to start
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	33.33%	38	57	20-Jan-17 A	09-May-17	29				
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	10-May-17	14-Jun-17	29				
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	15-Jun-17	26-Jul-17	29				
Retaining Wall W78											
TWSR-East FL Highway S/B Side Section											
RWZ4.0900	Site Clearance	0%	30	30	20-Mar-17	27-Apr-17	102				
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1030	Slope S53-Fill ~2m	0%	40	40	13-Apr-17	05-Jun-17	503				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Mar-17	17-May-17	134				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	18-May-17	07-Jun-17	161				
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	08-Jun-17	28-Jun-17	134				
G35											
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	0%	30	30	20-Mar-17	27-Apr-17	387				
DS50											
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Mar-17	27-Apr-17	447				
FVMS2 (Deleted by RFI-138, Pending for VO)											
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Mar-17	27-Apr-17	507				

- Programmed Duration
- Actual Progress
- Critical Path Activities
- Early Start & Early Finish

Float = 3 weeks



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M ²	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

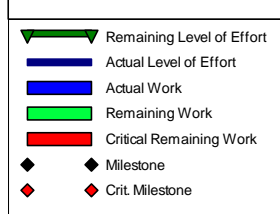
	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

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

**CONSTRUCTION PROGRAMME OF
APRIL 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Apr	May	Jun	Jul	
Contract Condition												
General												
Contract Condition												
Contract Condition												
KD12	KD-12 (1239d) - S2:Achievement Demolition of Nam Wa Po	0%	0	0		29-Apr-17*	-74					29-Apr-17* ◆ KD-12 (1239d) - S2:Achievement Demolition of Nam Wa Po Footbridge
KD13	KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	0%	0	0		13-Jul-17*	53					13-Jul-17* ◆ KD-
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Apr-17		1176					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Apr-17*		-840					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Apr-17*		-642					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Apr-17*		-507					◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
Underground Utility Works												
ADVZ20180	Utility cable changeover period (NWT)	57.97%	87	207	21-Dec-16 A	15-Jul-17	184					
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	58.17%	87	208	20-Dec-16 A	15-Jul-17	184					
TWSR-West Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	94.02%	11	184	15-Aug-16 A	04-May-17	103					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	63.86%	103	285	20-Oct-16 A	31-Jul-17*	0					
ADVZ20220	New TWSR-W construction period	86.96%	24	184	15-Aug-16 A	19-May-17	156					
ADVZ20225	Divert Existing TWSR-W to New TWSR-W	0%	5	5	20-May-17	25-May-17	224					
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	8%	92	100	08-Apr-17 A	09-Aug-17	0					
Noise Barrier Along TWSR-West and Laying New Utilities												
NB48 (Ch.5995-6120)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10440	Firemain installation (along NB48, 0-60m)	95.61%	9	205	20-Jun-16 A	29-Apr-17	156					
NB54 (Ch.6240-6280)-TWSR West Side												
Noise Barrier Works												
NB00720	NB54 - NB post & panel installation	0%	5	5	02-May-17*	08-May-17	0					
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00790	NB54A - NB post & panel installation	0%	5	5	09-May-17	13-May-17	584					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10680	Watermain installation (along NB54A)	98.26%	5	288	14-Mar-16 A	25-Apr-17	951					
TSZ10690	Firemain installation (along NB54A)	87.69%	8	65	19-Dec-16 A	28-Apr-17	160					
NB59 (Ch.6490-6590)-TWSR West Side												
Noise Barrier Works												
NB01000	NB59 - NB post installation	89.19%	12	111	15-Oct-16 A	05-May-17	591					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20160	TTA for NB works	0%	60	60	20-Apr-17	03-Jul-17	162					
NB60 (Ch.6450-6920)-FH N/B Side												
Noise Barrier Works												
NB01751	NB60 (0-15m)(NB60/1) Pre-drilling	0%	12	12	07-Jul-17	20-Jul-17	88					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	71.1%	50	173	20-Jul-16 A	20-Jun-17	252					
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	21-Jun-17		252					◆ Steel Staircase & Bridge
TWSR-West/ FL Highway N/B Side Section												
THBF0620	Finishes Work	0%	60	60	27-Feb-17 A	03-Jul-17	332					
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		03-Jul-17	332					03-Jul-17 ◆ Bridge Struct
Crossing Fanling Highway Section												
THBF0530	THP1 - Predrilling	0%	12	12	20-Apr-17	05-May-17	163					
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	45	45	06-May-17	28-Jun-17	163					
THBF0550	THP1 - Pile Test	0%	28	28	29-Jun-17	26-Jul-17	198					
THBF0560	THP1 - Pile cap, Pier and Pier Head	0%	100	100	13-Jul-17	09-Nov-17	164					
TWSR-East FL Highway S/B Side Section												
THBF0470	THAB1 - pile cap & abutment wall	62.39%	41	109	21-Nov-16 A	09-Jun-17	895					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	10-Jun-17	04-Jul-17	895					
THBF0520	THP2 - Pile cap, Pier and Pier Head	0%	82	45	20-Mar-17 A	28-Jul-17	220					
THBF0780	Modified existing column head of existing footbridge	0%	30	30	20-Apr-17	26-May-17	242					
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	30	30	27-May-17	03-Jul-17	242					



Project ID: WP Rev 04 (1704)
 Layout: 3 Month Rolling Program
 Page 1 of 5

Contract No. HY/2012/06
Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange
3 Month Rolling Program(20-Apr-17)



Date	Revision	C...	A..
13-May-14	WP Rev 1		
30-Jun-14	WP Rev 1A		
28-Aug-15	WP Rev 2		
07-Apr-16	WP Rev 3		
08-Nov-16	WP Rev 4		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Apr	May	Jun	Jul	
Lift at TWSR-W Side												
L1520	Lift shaft & roof	87.72%	28	228	16-Jul-16 A	24-May-17	244					
L1530	Structural Laminated glass wall installation	0%	30	30	25-May-17	29-Jun-17	288					
L1540	RC Platform connect to bridge	0%	30	30	25-May-17	29-Jun-17	244					
L1550	Metal cover on RC platform	0%	30	30	30-Jun-17	04-Aug-17	244					
L1557	Lift submission & ordering period	89.96%	26	259	02-Jul-16 A	22-May-17	320					
L1600	CLP Power available (by CLP)	71.29%	122	425	21-Jun-16 A	19-Aug-17	388					
Lift at FLHY S/B												
L1370	Lift shaft & roof	78.57%	33	154	20-Sep-16 A	31-May-17	256					
L1380	Structural Laminated glass wall installation	0%	30	30	01-Jun-17	06-Jul-17	286					
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	01-Jun-17	06-Jul-17	256					
L1400	Roof cover for RC Platform	0%	30	30	07-Jul-17	10-Aug-17	256					
L1450	CLP Power available (by CLP)	64%	153	425	21-Jun-16 A	19-Sep-17	360					
New Tai Wo Footbridge												
General												
TWFB1090	Steel Bridge prefabrication (TWFB)	80.11%	37	186	15-Aug-16 A	05-Jun-17	416					
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	06-Jun-17		416					◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section												
TWFB1370	Erect Staircase (TWFB-TWSR-W side)	88.57%	8	70	07-Dec-16 A	28-Apr-17	551					
TWFB1390	Finishes Work	0%	30	30	29-Apr-17	06-Jun-17	551					
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		06-Jun-17	551					◆ Bridge Structure complete (TWFB-TW)
Crossing Fanling Highway Section												
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	30	30	01-Jun-17*	06-Jul-17	0					
TWFB1430	TWP2 - Pile Test	0%	28	28	07-Jul-17	03-Aug-17	31					
Lift at TWSR-W Side												
L1670	Lift shaft & roof	84.78%	35	230	21-Jun-16 A	02-Jun-17	374					
L1680	Structural Laminated glass wall installation	0%	30	30	03-Jun-17	08-Jul-17	417					
L1690	RC Link slab connect to bridge	0%	30	30	03-Jun-17	08-Jul-17	374					
L1700	Metal cover on RC platform	0%	30	30	10-Jul-17	12-Aug-17	374					
L1730	Lift submission & ordering period	79.25%	61	294	02-Jul-16 A	04-Jul-17	421					
L1780	CLP Power available (by CLP)	61.52%	152	395	20-Aug-16 A	18-Sep-17	526					
Temporary Tai Wo Footbridge												
Construction Works												
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	90	90	13-Jul-17	27-Oct-17	125					
TWSR-West Construction												
Drainage & Road Works												
Ch 5880-6740												
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	85.83%	17	120	01-Nov-16 A	19-May-17	156					
Noise Barrier Along Fanling Highway S/B												
NB46A (Ch.5880-5935)-FH S/B Side												
Noise Barrier Works												
NB03240	Excavation & DN600 pipe laying	13.33%	65	75	08-Mar-17 A	08-Jul-17	388					
NB03300	DN600 water connection by WSD	0%	14	14	10-Jul-17	25-Jul-17	388					
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-Feb-17 A	07-Aug-17	458					
NB02330	NB51(25-118m) - Footing & Wall Structure	6.67%	84	90	13-Mar-17 A	31-Jul-17	333					
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02370	NB52 - Sheet piling & Excavation	75.93%	26	108	04-Nov-16 A	22-May-17	522					
NB02380	NB52 - Footing & Wall Structure	58.33%	50	120	18-Nov-16 A	20-Jun-17	498					
NB02390	NB52- backfilling	0%	50	50	21-Jun-17	18-Aug-17	498					
NB02400	NB52 - NB production	0%	45	45	21-Jun-17	04-Aug-17	629					
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-Apr-17	22-May-17	404					
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	23-May-17	22-Jun-17	451					
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	23-Jun-17	01-Sep-17	451					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	06-Jun-17	16-Jun-17	393					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	17-Jun-17	19-Jul-17	393					
NB02590	NB53 (125-180m) - NB production	95.17%	14	290	20-May-16 A	03-May-17	722					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-May-17	09-May-17	588					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	96.51%	24	688	07-Nov-14 A	19-May-17	393					
NB02650	NB55- backfilling	0%	50	50	20-May-17	19-Jul-17	393					
NB02660	NB55 - NB production	90.95%	40	442	15-Jan-16 A	29-May-17	696					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	96.32%	14	380	20-Feb-16 A	03-May-17	722					
NB02740	NB56 - NB post & panel installation	0%	5	5	04-May-17	09-May-17	588					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Apr-17	12-May-17	125					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Apr	May	Jun	Jul
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	13-May-17	12-Jul-17	125				
NB02790	NB61 (0-50m)- backfilling	0%	50	50	13-Jul-17	08-Sep-17	485				
NB02800	NB61 (0-50m) - NB production	0%	45	45	13-Jul-17	26-Aug-17	607				
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Apr-17	03-Jun-17	691				
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	05-Jun-17	09-Jun-17	562				
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02920	NB61A(0-50m) - NB production	89.05%	45	411	20-Feb-16 A	03-Jun-17	691				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	05-Jun-17	09-Jun-17	562				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	90.61%	57	607	01-Apr-15 A	28-Jun-17	506				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Jun-17	22-Jul-17	521				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	29-Jun-17	12-Aug-17	621				
NB03040	NB61A (75-190m) - NB production	96.06%	15	381	20-Feb-16 A	04-May-17	721				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-May-17	10-May-17	587				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1090	New MCLT - finishes works	77.5%	72	320	20-May-16 A	17-Jul-17	531				
MCLT1100	New MCLT completion	0%	0	0		17-Jul-17*	531				17-Jul-17* ◆
TCSS Works											
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		12-Jul-17	505				12-Jul-17 ◆ Slow
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB63A (Ch.6710-6840)-TWSR West Side											
Noise Barrier Works											
NB01200	NB63A-3 - NB post installation	83.45%	24	145	17-Sep-16 A	19-May-17	579				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10880	Watermain installation (along NB63A)	87.62%	13	105	02-Nov-16 A	06-May-17	157				
TSZ10890	Firemain installation (along NB63A)	48.39%	16	31	16-Feb-17 A	10-May-17	157				
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB001060	NB64 & NB64A-NB post & panel installation	89.8%	31	304	14-Mar-16 A	27-May-17	572				
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	02-May-17	13-Jun-17	559				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
KLH.1290	West Ramp - Planting	0%	21	21	20-Apr-17	16-May-17	582				
KLH Bridge - Deck 1											
KLH.3430	Deck 1 - Planting	0%	21	21	20-Apr-17	16-May-17	582				
KLH Bridge - Deck 3											
KLH.3500	Deck 3 - Planting	0%	21	21	20-Apr-17	16-May-17	614				
KLH Bridge - East Ramp											
KLH.3590	East Ramp - Planting	0%	34	34	20-Apr-17	01-Jun-17	922				
KLH Bridge - Ramp R1											
Z2.KLH.3610	Ramp R1 - Steel roof	80%	11	55	19-Jan-17 A	04-May-17	592				
KLH Bridge - Ramp R2											
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-Apr-17*	19-May-17	553				
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	20-May-17	20-Jun-17	553				
Z2.KLH.1550	Ramp R2 - Steel roof	33.33%	16	24	14-Mar-17 A	10-May-17	587				
Bridge Road Work											
Z2.KLH.2030	Diversion of existing pedestrian to proposed Kiu Lung Hang Vehicular	0%	1	1	22-Apr-17*	22-Apr-17	-60				
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Apr-17	11-Sep-17	483				
Lift at TWSR-W Side											
L01040	Temp work & Pile cap	0%	45	45	20-Apr-17	14-Jun-17	363				
L01050	Lift pit	0%	24	24	15-Jun-17	13-Jul-17	363				
L01060	Lift shaft & roof	0%	52	52	14-Jul-17	12-Sep-17	363				
L01094	Lift submission & ordering period	61.54%	130	338	01-Aug-16 A	22-Sep-17	384				
L01140	CLP Power available (by CLP)	85.78%	63	443	04-Apr-16 A	21-Jun-17	653				
Lift at FLHY S/B											
L01200	Temp work & Pier cap	51.11%	22	45	10-Mar-17 A	17-May-17	371				
L01210	Lift pit	0%	30	30	18-May-17	22-Jun-17	371				
L01220	Lift shaft & roof	0%	90	90	23-Jun-17	09-Oct-17	371				
L01300	CLP Power available (by CLP)	80.17%	94	474	04-Apr-16 A	22-Jul-17	628				
Demolition of Existing Nam Wa Po Footbridge											
Demolition Work											
Z2.NWP.1060	Temporary support installation at existing Fanling Highway	93.33%	2	30	12-Apr-17 A	22-Apr-17	-60				
Z2.NWP.1070	Removal of existing NWP Footbridge	0%	6	6	24-Apr-17	29-Apr-17	-60				
Z2.NWP.1090	Existing Nam Wa Po Footbridge removed	0%	0	0		29-Apr-17	-60				29-Apr-17 ◆ Existing Nam Wa Po Footbridge removed
Z2.NWP.1160	Temp lighting installation	80%	3	15	18-Apr-17 A	22-Apr-17	-60				
TWSR-West Construction											
Drainage & Road Works											
General											
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	0%	60	60	02-May-17	13-Jul-17	45				
Noise Barrier Along Fanling Highway S/B											

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Apr	May	Jun	Jul	
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB03090	NB62 (0-80m) - Footing & Wall Structure	88.61%	9	79	12-Dec-16 A	29-Apr-17	554					
NB03100	NB62 (0-80m) - backfilling	0%	20	20	27-Mar-17 A	15-May-17	578					
NB03110	NB62 (0-80m) - NB production	0%	45	45	29-Apr-17	13-Jun-17	681					
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	13-Jun-17	19-Jun-17	554					
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-Apr-17*	05-May-17	473					
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	06-May-17	05-Jun-17	526					
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	06-Jun-17	21-Jun-17	547					
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	06-Jun-17	20-Jul-17	644					
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	06-May-17	26-May-17	473					
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	27-May-17	07-Aug-17	473					
NB70 (Ch.6910-6930)-FH S/B Side												
Noise Barrier Works												
NB03290	NB70- NB post & panel installation	0%	5	5	20-Apr-17	25-Apr-17	598					
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												
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Apr-17	26-May-17	605					
HKY1440	Remaining Finishes works of HKYFB	45.03%	83	151	21-Nov-16 A	29-Jul-17	507					
TWSR-East FL Highway S/B Side Section												
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	77.1%	30	131	13-Oct-16 A	26-May-17	605					
Other Works												
Slope Works												
TWSR-East FL Highway S/B Side Section												
S1000	Slope S51-Fill ~3m	0%	40	40	20-Apr-17 A	08-Jun-17	559					
ZONE 4 (Ch. 7925 to 8700)												
Noise Barrier Along Fanling Highway N/B												
NB75 (Ch.7930-8090)-FH N/B Side												
Noise Barrier Works												
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	21.67%	47	60	20-Mar-17 A	16-Jun-17	4					
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	17-Jun-17	11-Jul-17	4					
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	17-Jun-17	31-Jul-17	168					
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	0%	30	30	20-Apr-17	26-May-17	29					
NB4130	NB75 - backfilling (Ch7990-8000)-(HKY-P1)	0%	12	12	27-May-17	10-Jun-17	29					
NB4140	NB75 - NB production (Ch7990-8000)-(HKY-P1)	0%	45	45	27-May-17	10-Jul-17	195					
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	0%	50	50	20-Apr-17	20-Jun-17	2					
NB4190	NB75 - backfilling (Ch8000-8050)	0%	20	20	12-Jul-17	03-Aug-17	15					
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	21-Jun-17	04-Aug-17	170					
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	0%	50	50	21-Jun-17	18-Aug-17	2					
NB77 (Ch.8090-8450)-FH N/B Side												
Noise Barrier Works												
NB4300	NB77 - piling (NB77/01-08, 0.19m -34no)	33.33%	12	18	28-Feb-17 A	05-May-17	9					
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	0%	90	90	06-May-17	21-Aug-17	9					
NB4360	NB77 - piling (NB77/09-17, 0.19m -36no)	33.33%	12	18	20-Mar-17 A	05-May-17	61					
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	90	90	06-May-17	21-Aug-17	61					
NB4420	NB77 - piling (NB77/18-25, 0.19m -34no)	23.08%	20	26	08-Apr-17 A	15-May-17	71					
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	0%	20	20	20-Apr-17	15-May-17	86					
NB4480	NB77 - piling (NB77/26-29, 0.19m -28no)	0%	14	14	16-May-17	01-Jun-17	86					
NB4485	NB77 - piling (NB77/30, 0.19m -14no) & G35 (8nos)	0%	17	17	02-Jun-17	21-Jun-17	86					
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		15-May-17	539					
TWSR-West/ FL Highway N/B Side Section												
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	0%	90	90	20-Apr-17	07-Aug-17	303					
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge												
TWSR-East FL Highway S/B Side Section												
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A	0%	20	20	20-Apr-17	15-May-17	539					
Slip Road Y Construction												
Underground Utility Works												
DN600 and DN900 Watermain												
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	110	110	17-May-17	23-Sep-17	-23					
VO - Wall 76A Construction												
Retaining Wall W76A												
TWSR-East FL Highway S/B Side Section												
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Apr-17	18-Oct-17	335					
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%	145	145	20-Apr-17	12-Oct-17	147					
RDZ41114	Construct FH N/B Lane 3 (Ch7925-8600)	0%	65	65	14-Jul-17	27-Sep-17	2					
Other Works												
Retaining Wall W77A												
TWSR-East FL Highway S/B Side Section												

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Apr	May	Jun	Jul
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-20)	34.29%	23	35	01-Apr-17 A	18-May-17	60				
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	27-May-17	26-Jul-17	28				
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	28.57%	30	42	01-Feb-17 A	26-May-17	28				
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	0%	21	21	20-Apr-17	16-May-17	-23				
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	17-May-17		-23				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	73.68%	15	57	20-Jan-17 A	09-May-17	28				
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	10-May-17	14-Jun-17	28				
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	15-Jun-17	26-Jul-17	28				
Retaining Wall W78											
TWSR-East FL Highway S/B Side Section											
RWZ4.0900	Site Clearance	0%	30	30	20-Apr-17	26-May-17	78				
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1030	Slope S53-Fill ~2m	0%	40	40	16-May-17	03-Jul-17	539				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Apr-17	14-Jun-17	111				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	15-Jun-17	05-Jul-17	133				
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	06-Jul-17	26-Jul-17	111				
G34											
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		11-Jul-17	296				11-Jul-17 ◆ Slow
G35											
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	0%	30	30	20-Apr-17	26-May-17	363				
DS50											
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Apr-17	26-May-17	423				
FVMS2 (Deleted by RFI-138, Pending for VO)											
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Apr-17	26-May-17	483				

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

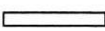



Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Actual Progress as on 23/4/2017

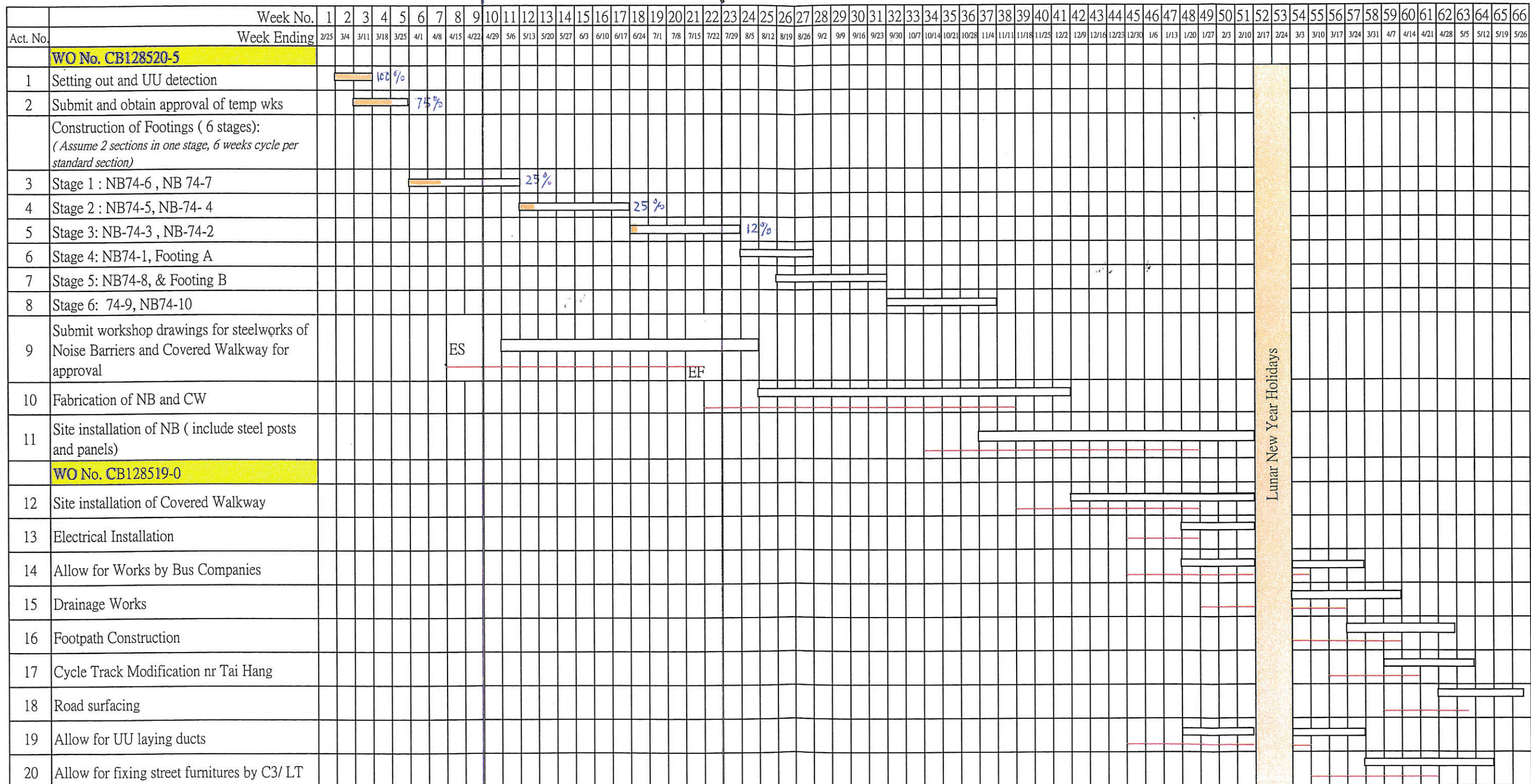
3 months Rolling Program

Rev : 01

29/3/2017

-  Programmed Duration
-  Actual Progress
-  Critical Path Activities
-  Early Start & Early Finish

Float = 3 weeks



Lunar New Year Holidays

**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		
			Feb 17	Mar 17	Apr 17	Feb 17	Mar 17	Apr 17
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
	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
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	@	@	-	@	V
	All spraying of materials and surfaces shall avoid excessive water usage.		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
	Materials shall be dampened, if necessary, before transportation.		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
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V	V	V	-	V	V

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Feb 17	Mar 17	Apr 17	Feb 17	Mar 17	Apr 17
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
	Reduce the number of equipment and their percentage on-time.		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.
	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.
	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.
	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.
	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.
	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.
	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.
	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.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Feb 17	Mar 17	Apr 17	Feb 17	Mar 17	Apr 17
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	V	V	V	-	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		
			Feb 17	Mar 17	Apr 17	Feb 17	Mar 17	Apr 17
Waste management during construction	General Waste <ul style="list-style-type: none"> - 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
	Vegetation from site clearance <ul style="list-style-type: none"> - 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
	Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V	-	V	V
	Excavated Materials <ul style="list-style-type: none"> - 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
	Construction Wastes <ul style="list-style-type: none"> - 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.
<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.
<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

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Feb 17	Mar 17	Apr 17	Feb 17	Mar 17	Apr 17
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
	<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
	<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. 		@	@	@	-	@	V

	<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	@	-	V	V
--	---	--	---	---	---	---	---	---

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Feb 17	Mar 17	Apr 17	Feb 17	Mar 17	Apr 17
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
	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
	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.
	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.
	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.

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)

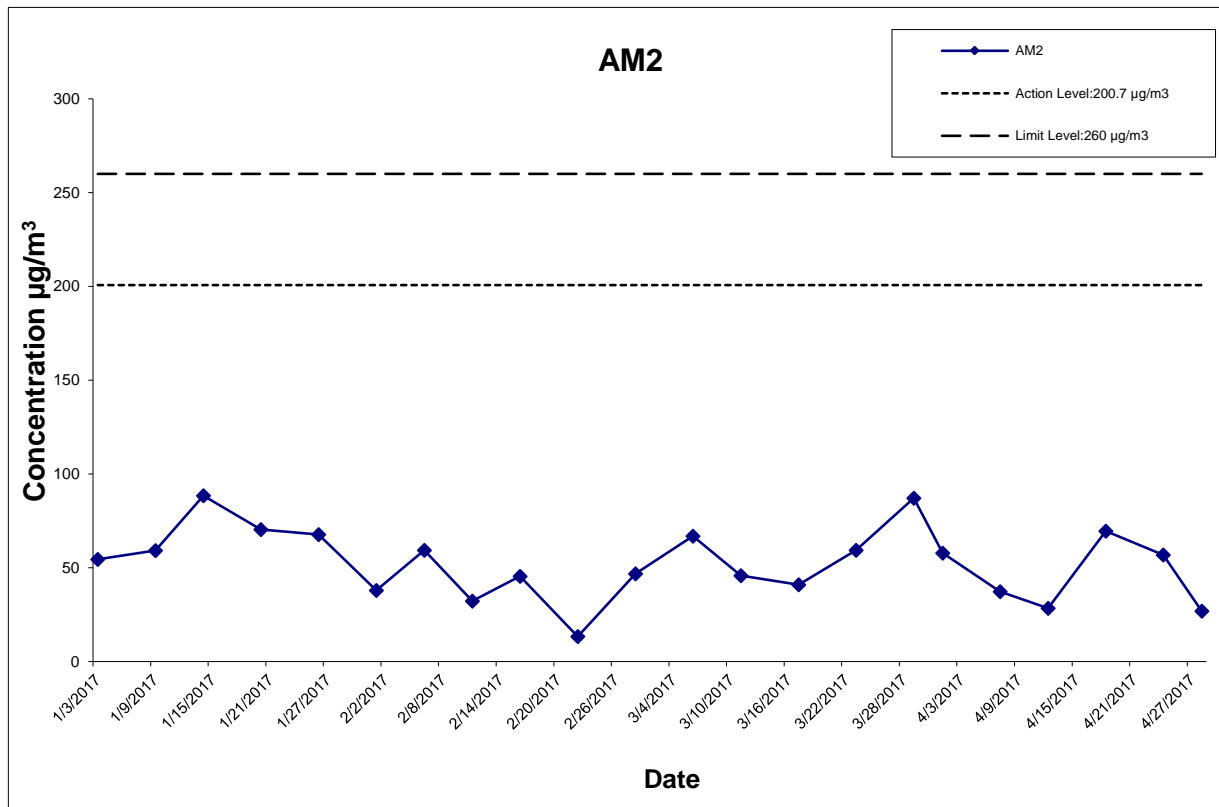
*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**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				
3-Jan-17	Sunny	20.0	1019.8	1.314	1.314	1.314	1892.2	2.7575	2.8608	0.1033	8106.03	8130.03	24.00	54.6	200.7	260
9-Jan-17	Sunny	20.6	1016.3	1.314	1.314	1.314	1892.2	2.7582	2.8703	0.1121	8130.03	8154.03	24.00	59.2	200.7	260
14-Jan-17	Cloudy	15.7	1017.9	1.314	1.314	1.314	1892.2	2.8172	2.9845	0.1673	8154.03	8178.03	24.00	88.4	200.7	260
20-Jan-17	Sunny	18.3	1022.4	1.314	1.314	1.314	1892.2	2.7963	2.9295	0.1332	8178.03	8202.03	24.00	70.4	200.7	260
26-Jan-17	Sunny	17.3	1024.3	1.314	1.314	1.314	1892.2	2.7521	2.8804	0.1283	8202.03	8226.03	24.00	67.8	200.7	260
1-Feb-17	Cloudy	18.4	1021.3	1.314	1.314	1.314	1892.2	2.8068	2.8787	0.0719	8226.03	8250.03	24.00	38.0	200.7	260
6-Feb-17	Rainy	18.1	1015.7	1.314	1.314	1.314	1892.2	2.8208	2.9332	0.1124	8250.03	8274.03	24.00	59.4	200.7	260
11-Feb-17	Sunny	14.0	1026.3	1.314	1.314	1.314	1892.2	2.8212	2.8824	0.0612	8274.03	8298.03	24.00	32.3	200.7	260
16-Feb-17	Sunny	18.7	1021.6	1.314	1.314	1.314	1892.2	2.8356	2.9217	0.0861	8298.03	8322.03	24.00	45.5	200.7	260
22-Feb-17	Sunny	18.9	1015.3	1.314	1.314	1.314	1892.2	2.8181	2.8433	0.0252	8322.03	8346.03	24.00	13.3	200.7	260
28-Feb-17	Sunny	18.7	1021.6	1.314	1.314	1.314	1892.2	2.8210	2.9097	0.0887	8346.03	8370.03	24.00	46.9	200.7	260
6-Mar-17	Fine	20.3	1013.7	1.314	1.314	1.314	1892.2	2.8292	2.9558	0.1266	8370.03	8394.03	24.00	66.9	200.7	260
11-Mar-17	Rainy	17.5	1015.1	1.314	1.314	1.314	1892.2	2.8259	2.9127	0.0868	8394.03	8418.03	24.00	45.9	200.7	260
17-Mar-17	Sunny	18.1	1017.2	1.314	1.314	1.314	1892.2	2.8010	2.8784	0.0774	8418.03	8442.03	24.00	40.9	200.7	260
23-Mar-17	Cloudy	21.2	1015.0	1.314	1.314	1.314	1892.2	2.8000	2.9124	0.1124	8442.03	8466.03	24.00	59.4	200.7	260
29-Mar-17	Fine	21.7	1018.3	1.314	1.314	1.314	1892.2	2.8588	3.0238	0.1650	8466.03	8490.03	24.00	87.2	200.7	260
1-Apr-17	Rainy	18.7	1019.9	1.314	1.314	1.314	1892.2	2.7876	2.8969	0.1093	8490.03	8514.03	24.00	57.8	200.7	260
7-Apr-17	Sunny	24.5	1012.4	1.314	1.314	1.314	1892.2	2.8490	2.9196	0.0706	8514.03	8538.03	24.00	37.3	200.7	260
12-Apr-17	Fine	20.6	1013.2	1.314	1.314	1.314	1892.2	2.8634	2.9172	0.0538	8538.03	8562.03	24.00	28.4	200.7	260
18-Apr-17	Fine	26.7	1008.9	1.314	1.314	1.314	1892.2	2.8453	2.9769	0.1316	8562.03	8586.03	24.00	69.6	200.7	260
24-Apr-17	Rainy	21.5	1014.3	1.314	1.314	1.314	1892.2	2.8278	2.9354	0.1076	8586.02	8610.02	24.00	56.9	200.7	260
28-Apr-17	Cloudy	21.8	1015.2	1.314	1.314	1.314	1892.2	2.8445	2.8955	0.0510	8634.02	8658.02	24.00	27.0	200.7	260
Average for the reporting quarter (Feb 1 to Apr 17)														47.8		
Minimum for the reporting quarter (Feb 17 to Apr 17)														13.3		
Maximum for the reporting quarter (Feb 17 to Apr 17)														87.2		



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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

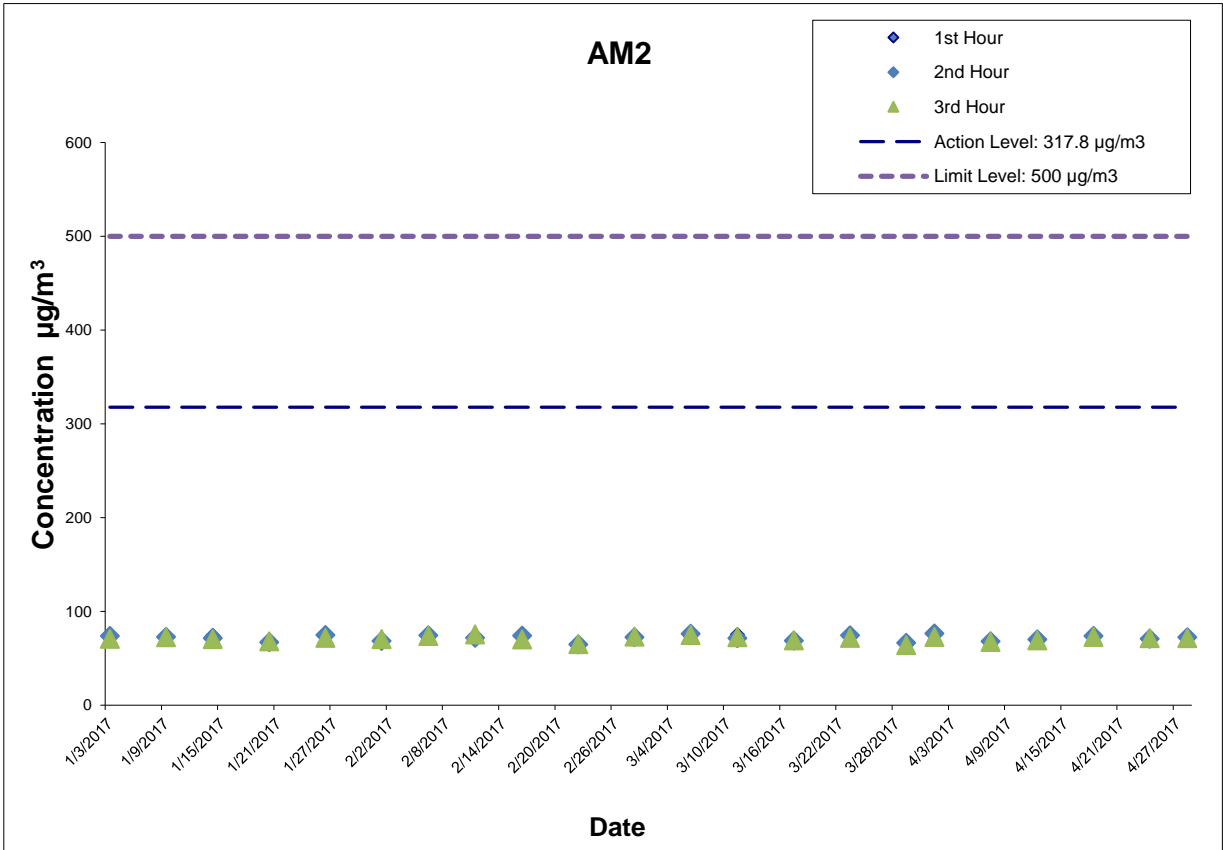
Project No.: 60307376 Date: May-17

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. ($\mu\text{g}/\text{m}^3$)
3-Jan-17	13:15	72.2	74.1	70.9
9-Jan-17	9:30	72.8	73.1	72.6
14-Jan-17	10:40	74.2	71.5	70.7
20-Jan-17	9:50	66.6	67.2	68.3
26-Jan-17	11:45	73.3	75.1	71.8
1-Feb-17	13:13	69.5	68.7	70.6
6-Feb-17	10:02	74.0	74.6	73.8
11-Feb-17	10:45	73.5	71.8	75.5
16-Feb-17	13:20	72.8	74.3	70.4
22-Feb-17	14:00	65.6	64.8	65.3
28-Feb-17	10:49	73.1	72.6	73.3
6-Mar-17	12:00	73.8	76.4	75.0
11-Mar-17	10:45	75.2	71.5	72.6
17-Mar-17	13:30	68.2	68.8	69.3
23-Mar-17	10:30	73.5	74.6	71.9
29-Mar-17	10:05	65.6	66.7	64.2
1-Apr-17	10:15	75.1	76.6	72.8
7-Apr-17	13:05	66.7	68.1	67.5
12-Apr-17	14:05	68.4	70.1	69.4
18-Apr-17	13:12	73.6	74.1	72.9
24-Apr-17	13:45	69.6	70.9	71.7
28-Apr-17	9:56	74.4	72.5	71.6
Average for the reporting quarter (Feb 17 to Apr 17)				71.3
Minimum for the reporting quarter (Feb 17 to Apr 17)				64.2
Maximum for the reporting quarter (Feb 17 to Apr 17)				76.6



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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: May-17

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , February 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	1021.5	22.0#	18.2	15.6#	14.3	78	***	***	***
02	1022.8	17.6	16.5	15.7	14.0	85	***	***	***
03	1020.6	19.2	17.0	15.3	12.6	76	***	***	***
04	1016.1	21.7	17.9	15.0	14.7	82	***	***	***
05	1013.9	23.4	18.8	15.9	16.1	85	***	***	***
06	1015.8	21.2	18.4	17.1	15.0	81	***	***	***
07	1017.2	18.1	16.9	16.0	11.6	71	***	***	***
08	1016.9	20.0	17.5	14.0	13.9	80	***	***	***
09	1021.1	15.7	12.8	9.5	3.7	54	***	***	***
10	1023.9	14.4	11.7	8.9	2.2	53	***	***	***
11	1026.7	17.1	12.7	9.2	3.7	55	***	***	***
12	1027.0	18.5	13.7	9.6	7.3	68	***	***	***
13	1027.4	20.5	15.4	10.5	9.2	69	***	***	***
14	1028.7	21.5	17.8	16.0	8.7	56	***	***	***
15	1026.4	21.4	17.3	14.9	8.4	57	***	***	***
16	1021.8	22.9#	17.8	13.5#	12.6	73	***	***	***
17	1020.9	24.3#	19.2	14.2#	14.6	76	***	***	***
18	1021.3	24.9	18.7	14.7	14.9	79	***	***	***
19	1018.3	18.4	17.2	16.3	14.9	87	***	***	***
20	1013.9	23.2	20.0	17.1	18.5	91	***	***	***
21	1017.3	20.6	18.4	16.7	16.9	91	***	***	***
22	1015.3	20.5	18.7	16.7	17.7	94	***	***	***
23	1017.8	19.6	16.9	12.3	14.5	86	***	***	***
24	1022.9	12.3	10.8	10.0	7.9	83	***	***	***
25	1021.7	11.9	10.1	8.6	8.0	87	***	***	***
26	1021.8	16.1#	13.0	9.2#	9.5	80	***	***	***
27	1022.9	19.2	16.5	14.5	10.0	67	***	***	***
28	1020.9	19.7	16.7	13.9	9.3	62	***	***	***

*** 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 , February 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	***	23.0	18.1	15.6	***	***	0.0	060	11.5
02	***	17.1	16.1	15.2	***	***	0.0	100	17.5
03	***	20.0	16.7	14.7	***	***	0.0	100	16.9
04	***	22.0	17.9	14.8	***	***	1.5	060	10.1
05	***	25.2	19.1	15.8	***	***	3.5	140	4.9
06	***	21.3#	18.0	16.6#	***	***	0.0	090	20.0
07	***	18.2#	16.5	15.5#	***	***	0.0	100	26.8
08	***	20.8#	17.3	13.3#	***	***	0.0	090	14.0
09	***	16.5#	12.4	9.1#	***	***	0.0	040	20.0
10	***	14.9#	11.5	9.0#	***	***	0.0	050	14.3
11	***	17.4#	12.9	9.1#	***	***	0.0	040	10.3
12	***	19.9	14.1	10.6	***	***	0.0	050	9.8
13	***	21.0#	15.4	11.7#	***	***	0.0	050	11.3
14	***	21.8#	17.0	14.1#	***	***	0.0	060	17.2
15	***	21.4#	16.7	13.7#	***	***	0.0	060	10.3
16	***	24.2#	17.9	14.2#	***	***	0.0	050	6.8
17	***	26.0	19.5	14.8	***	***	0.0	140	4.1
18	***	24.8	18.5	15.6	***	***	0.0	080	10.5
19	***	18.7#	17.1	15.6#	***	***	2.0	080	14.2
20	***	25.3	20.3	17.0	***	***	0.0	060	6.1
21	***	20.2#	17.8	16.1#	***	***	1.5	090	20.7
22	***	20.5#	18.4	16.2#	***	***	0.0	070	8.6
23	***	19.3	17.1	12.5	***	***	0.0	050	8.0
24	***	12.5	10.8	9.9	***	***	0.0	040	8.5
25	***	11.8	10.3	9.0	***	***	0.0	050	6.1
26	***	17.0#	13.2	9.1#	***	***	0.0	040	7.6
27	***	19.9	16.3	14.6	***	***	0.0	090	14.3
28	***	21.7#	16.7	13.6#	***	***	0.0	060	12.8

*** unavailable

data incomplete

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

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 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	22.6	18.5	14.3	11.7	66	***	***	***
02	1019.5	21.9	18.4	15.2	5.7	46	***	***	***
03	1017.3	19.6	16.5	13.3	10.0	66	***	***	***
04	1014.3	20.7	18.4	16.3	13.7	74	***	***	***
05	1012.4	22.5	20.0	18.6	17.9	88	***	***	***
06	1013.9	22.7	19.6	17.5	16.2	82	***	***	***
07	1016.8	18.9	17.2	16.0	13.7	80	***	***	***
08	1017.9	16.2	15.3	13.7	13.5	89	***	***	***
09	1016.0	17.8	16.4	14.4	12.7	79	***	***	***
10	1012.6	18.4	17.5	16.0	16.5	94	***	***	***
11	1015.4	18.5	17.5	16.7	16.0	91	***	***	***
12	1014.3	20.3	18.5	17.0	17.2	92	***	***	***
13	1011.8	24.2#	20.8	18.9#	19.9	95	***	***	***
14	1016.1	20.4	17.9	15.6	17.7	98	***	***	***
15	1018.5	17.4	16.6	15.8	11.8	74	***	***	***
16	1016.7	18.4	17.5	16.7	13.9	79	***	***	***
17	1017.4	19.2	18.0	16.7	16.2	89	***	***	***
18	1017.9	20.1#	18.7	17.0#	17.8	95	***	***	***
19	1017.3	20.6	19.4	18.5	19.0	97	***	***	***
20	1015.2	24.6	21.1	18.5	19.5	91	***	***	***
21	1014.9	26.9	22.3	19.0	20.4	89	***	***	***
22	1014.2	19.6	18.6	17.5	17.0	91	***	***	***
23	1015.0	23.4	20.7	18.8	18.6	88	***	***	***
24	1016.3	21.3	20.4	19.4	18.1	87	***	***	***
25	1017.5	21.3	19.0	15.3	16.3	85	***	***	***
26	1022.6	16.2#	14.8	12.2#	11.2	80	***	***	***
27	1023.1	21.7	18.3	13.5	9.0	57	***	***	***
28	1019.3	22.0#	19.9	17.3#	15.1	74	***	***	***
29	1018.4	23.0	21.2	19.9	19.1	88	***	***	***
30	1017.3	22.5	21.4	20.8	20.1	93	***	***	***
31	1015.5	21.7	19.7	14.9	18.7	94	***	***	***

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Daily Extract of Meteorological Observations , March 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	***	23.2#	18.7	14.7#	***	***	0.0	040	7.1
02	***	22.4	18.6	15.1	***	***	0.0	040	20.9
03	***	20.4	16.5	13.6	***	***	0.0	060	12.8
04	***	23.2	18.6	15.6	***	***	0.0	060	9.7
05	***	23.9	20.3	18.3	***	***	0.0	060	4.7
06	***	24.4#	19.9	17.2#	***	***	0.0	040	11.1
07	***	20.1	17.1	15.5	***	***	0.0	090	15.8
08	***	16.5	15.0	13.7	***	***	1.5	050	11.8
09	***	17.7#	15.9	14.3#	***	***	0.0	040	14.3
10	***	18.3#	17.1	15.4#	***	***	0.0	120	9.0
11	***	17.8	17.1	16.5	***	***	0.0	120	9.3
12	***	19.7	18.3	16.7	***	***	0.0	090	9.4
13	***	24.9#	21.3	19.0#	***	***	0.0	060	5.8
14	***	21.0	17.7	15.3	***	***	1.5	050	12.1
15	***	16.8#	15.9	14.9#	***	***	0.0	100	17.9
16	***	19.3#	17.3	15.9#	***	***	0.0	070	11.4
17	***	20.0#	18.0	16.5#	***	***	0.0	110	12.2
18	***	20.0	18.5	16.8	***	***	1.0	060	9.5
19	***	20.3	19.2	18.3	***	***	36.0	070	12.6
20	***	26.1	21.1	18.4	***	***	1.0	070	6.8
21	***	28.1#	22.1	18.3#	***	***	0.0	060	12.7
22	***	19.0#	18.0	16.8#	***	***	1.0	080	14.1
23	***	24.7#	20.7	18.4#	***	***	0.0	060	7.4
24	***	22.0#	20.1	18.6#	***	***	0.0	070	13.4
25	***	21.9	18.7	14.7	***	***	0.0	040	11.3
26	***	15.6#	14.5	12.3#	***	***	2.5	040	13.8
27	***	23.6	18.9	14.4	***	***	0.0	060	14.6
28	***	23.9#	20.0	16.6#	***	***	0.0	080	16.1
29	***	22.5	20.9	19.7	***	***	3.0	060	14.8
30	***	22.5#	21.1	20.3#	***	***	1.0	060	10.8
31	***	22.4	19.3	14.4	***	***	19.0	040	13.0

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Daily Extract of Meteorological Observations , April 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	1020.1	21.9	17.9	13.7	12.9	74	***	***	***
02	1021.6	22.0	18.7	15.2	12.0	68	***	***	***
03	1020.9	22.6#	19.8	16.6#	14.1	70	***	***	***
04	1018.5	23.9	20.9	18.8	17.6	81	***	***	***
05	1014.9	25.3	22.3	19.9	19.7	86	***	***	***
06	1012.5	24.1	22.7	21.8	21.5	93	***	***	***
07	1012.3	27.1#	23.9	21.6#	21.8	89	***	***	***
08	1011.9	27.0#	24.0	21.6#	22.1	90	***	***	***
09	1009.1	28.1	25.0	21.5	22.7	88	***	***	***
10	1006.2	28.1	26.6	25.7	23.8	84	***	***	***
11	1007.3	29.5	25.5	22.0	24.2	93	***	***	***
12	1013.4	22.0	18.9	17.1	17.3	91	***	***	***
13	1017.4	20.3#	18.7	17.0#	15.8	84	***	***	***
14	1015.1	23.4#	21.1	19.1#	18.0	83	***	***	***
15	1013.4	25.1#	22.6	20.3#	21.0	90	***	***	***
16	1013.1	28.1	24.6	22.8	22.5	88	***	***	***
17	1010.5	32.2	26.4	23.0	22.3	80	***	***	***
18	1008.4	32.4	27.2	22.8	22.1	76	***	***	***
19	1008.5	31.7#	26.6	23.2#	22.2	78	***	***	***
20	1009.3	28.3#	25.0	23.8#	23.9	93	***	***	***
21	1007.7	29.8	25.1	22.9	23.9	93	***	***	***
22	1013.0	23.3	19.4	17.4	16.4	84	***	***	***
23	1014.6	21.2	19.7	18.8	17.7	88	***	***	***
24	1014.1	21.8	20.8	19.5	18.7	87	***	***	***
25	1012.2	22.2	21.4	20.2	20.5	95	***	***	***
26	1010.6	25.2	23.1	22.0	22.9	98	***	***	***
27	1012.5	23.3	21.4	19.7	19.6	90	***	***	***
28	1015.0	23.6	20.7	18.9	16.8	78	***	***	***
29	1014.1	26.0	21.8	17.3	18.0	80	***	***	***
30	1012.9	26.4	22.6	18.7	19.2	82	***	***	***

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data incomplete

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Daily Extract of Meteorological Observations , April 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	***	23.0#	18.1	14.3#	***	***	0.0	040	16.0
02	***	23.5	18.8	15.4	***	***	0.0	050	14.5
03	***	24.2#	19.6	16.3#	***	***	0.0	050	17.6
04	***	24.8	21.0	17.8	***	***	0.0	070	14.9
05	***	25.5#	22.1	19.6#	***	***	0.0	070	11.1
06	***	25.4	22.8	21.4	***	***	0.5	060	9.3
07	***	28.3	24.1	21.5	***	***	0.0	060	5.9
08	***	27.4#	24.1	21.5#	***	***	0.0	140	5.2
09	***	28.7#	25.3	21.9#	***	***	0.0	240	12.2
10	***	28.0#	26.3	24.5#	***	***	0.0	240	16.2
11	***	27.8	25.7	22.5	***	***	2.5	240	5.3
12	***	22.6	18.9	17.0	***	***	32.0	050	9.9
13	***	20.8#	18.6	17.0#	***	***	0.5	050	6.9
14	***	24.5	21.3	18.7	***	***	0.0	060	6.3
15	***	27.8	23.2	20.2	***	***	0.0	050	7.1
16	***	29.3#	24.7	22.7#	***	***	0.0	060	7.0
17	***	31.8#	26.5	23.1#	***	***	0.0	140	7.9
18	***	32.2#	27.4	23.2#	***	***	0.0	270	9.2
19	***	31.4#	27.0	24.2#	***	***	0.0	250	10.9
20	***	28.3#	25.1	23.6#	***	***	19.0	050	6.0
21	***	29.0#	24.9#	21.6#	***	***	29.5#	040#	11.9#
22	***	21.7	18.9	16.4	***	***	10.5	030	9.5
23	***	21.5	19.7	18.5	***	***	2.5	040	7.3
24	***	21.9#	20.6	19.3#	***	***	0.5	100	10.5
25	***	22.1#	21.0	19.5#	***	***	14.0	060	11.5
26	***	26.1#	23.3	21.9#	***	***	1.0	060	6.3
27	***	23.4	21.4	19.9	***	***	3.5	040	13.8
28	***	25.6	21.0	18.9	***	***	0.0	040	8.4
29	***	27.3	22.2	18.0	***	***	0.0	140	4.4
30	***	27.6	23.3	19.8	***	***	0.0	080	5.5

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**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*		
3-Jan-17	14:15	68.1	69.8	65.0	75	N
9-Jan-17	10:15	70.2	71.8	68.3	75	N
20-Jan-17	13:00	68.5	70.0	66.0	75	N
26-Jan-17	13:03	68.8	70.3	66.3	75	N
1-Feb-17	13:59	69.7	72.4	68.0	75	N
6-Feb-17	10:54	69.8	71.0	64.5	75	N
16-Feb-17	13:15	68.9	70.3	65.2	75	N
22-Feb-17	15:00	69.7	71.4	67.2	75	N
28-Feb-17	9:58	69.8	71.5	65.0	75	N
6-Mar-17	14:00	70.0	74.2	67.8	75	N
17-Mar-17	14:20	68.8	70.0	66.5	75	N
23-Mar-17	10:50	67.5	69.0	66.0	75	N
29-Mar-17	10:35	67.5	69.0	64.5	75	N
7-Apr-17	13:30	67.0	69.0	65.0	75	N
12-Apr-17	14:49	70.9	72.5	68.3	75	N
18-Apr-17	13:59	69.6	70.5	66.5	75	N
24-Apr-17	14:40	69.0	71.0	66.5	75	N
Minimum for Feb 17 to Apr 17		67.0	69.0	64.5		
Maximum for Feb 17 to Apr 17		70.9	74.2	68.3		
Average for Feb 17 to Apr 17		69.2	71.2	66.4		

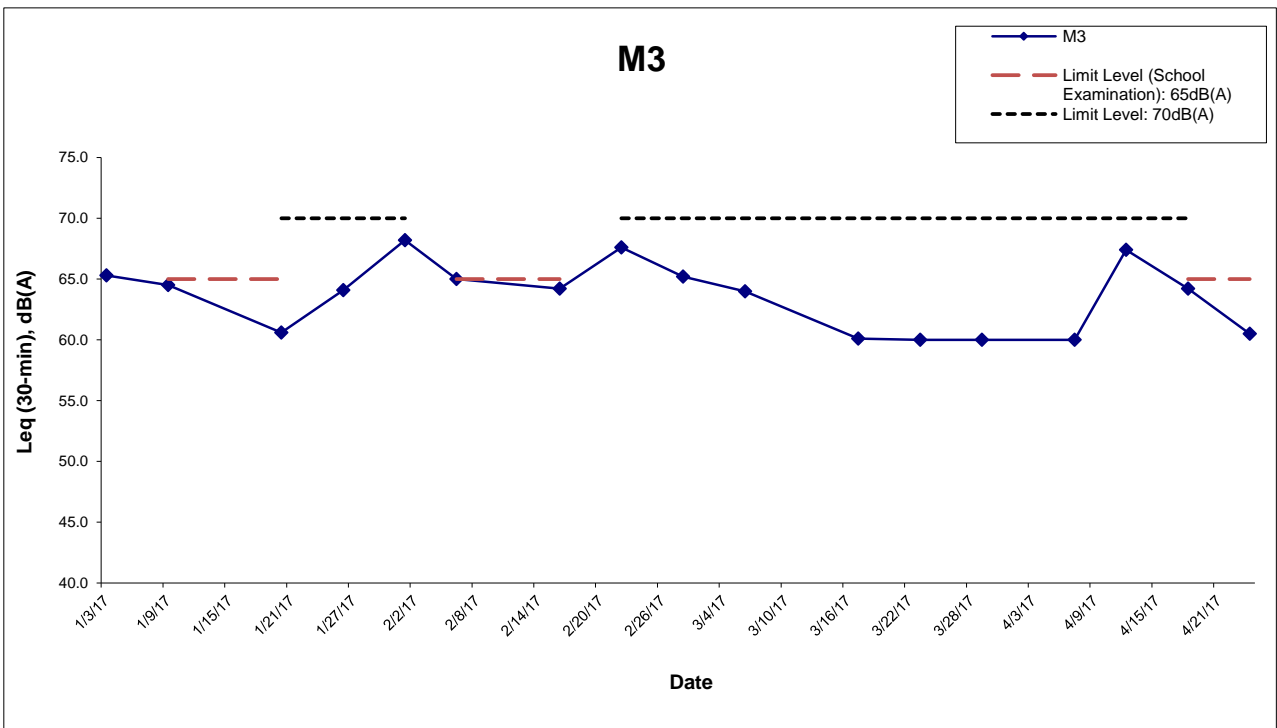
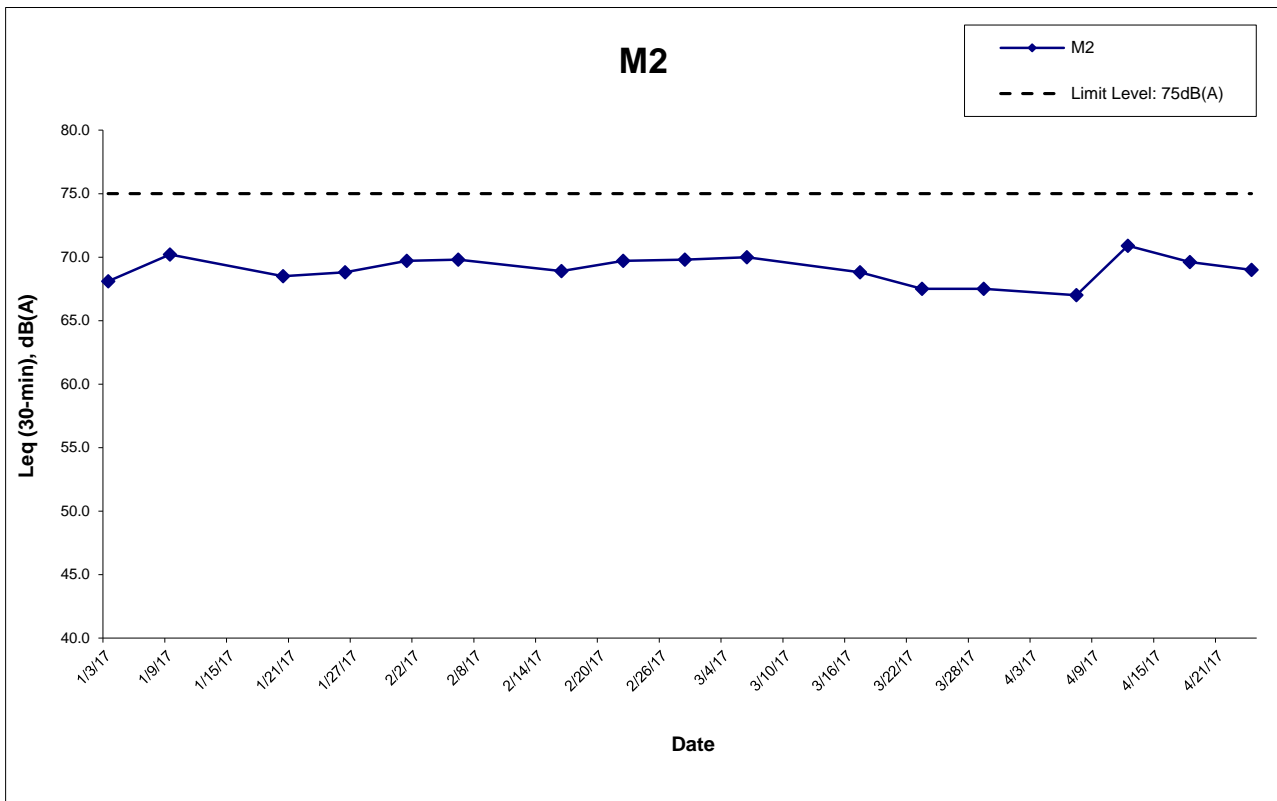
Location : M3 (Fanling Government Secondary School- Façade)

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		
3-Jan-17	13:20	65.3	66.7	62.1	70	N
9-Jan-17	9:30	64.5	65.7	62.5	65	N
20-Jan-17	9:50	60.6	61.5	57.0	70	N
26-Jan-17	14:05	64.1	65.8	61.9	70	N
1-Feb-17	14:50	68.2	70.3	66.5	70	N
6-Feb-17	10:02	65.0	66.0	62.5	65	N
16-Feb-17	14:05	64.2	66.0	62.8	65	N
22-Feb-17	14:00	67.6	70.1	65.2	70	N
28-Feb-17	10:49	65.2	67.0	61.5	70	N
6-Mar-17	14:59	64.0	66.8	61.2	70	N
17-Mar-17	13:30	60.1	61.5	57.0	70	N
23-Mar-17	10:35	60.0	61.0	56.0	70	N
29-Mar-17	10:05	60.0	61.0	56.5	70	N
7-Apr-17	13:05	60.0	61.0	56.0	70	N
12-Apr-17	15:19	67.4	69.5	65.2	70	N
18-Apr-17	13:12	64.2	66.0	61.0	70	N
24-Apr-17	13:45	60.5	62.0	56.5	65	N
Minimum for Feb 17 to Apr 17		60.0	61.0	56.0		
Maximum for Feb 17 to Apr 17		68.2	70.3	66.5		
Average for Feb 17 to Apr 17		64.6	66.5	62.1		

* +3dB(A) Façade effect correction included

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



Remark:

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

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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: May-17

Appendix G

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

Appendix L

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	6
	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</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
		to follow up as soon as possible.			
	5 January 2017 (Referred by the Contractor on 13 January 2017)	<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>	Closed		
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