AECOM

Environmental Protection Department

Contract No. HY/2012/06

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

Quarterly EM&A Report for August 2018 to October 2018

[11/2018]

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

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Disclaimer

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

22 November 2018
By Fax (2805 5028) & Hand

We refer to the Quarterly EM&A Summary Report for August 2018 to October 2018 for the captioned Project received on 19 November 2018 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

Steven Tang
Independent Environmental Checker

c.c.

HyD	Mr. Ricky Yeung	By Fax (2714 5198)
AECOM	Mr. Y W Fung	By Fax (3922 9797)

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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)". The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

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 August 2018 and 31 October 2018. As informed by the Contractor, construction activities of Contract No. HY/12012/06 in the reporting period were as follows:

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

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

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

Breaches of Action and Limit Levels for Noise

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

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons and 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
- Bridge construction
- Piling

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 rainy, occasionally sunny, fine and cloudy 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 ($\mu g/m^3$)	Range ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
AM2 (Fanling Government Secondary School)	68.1	62.9 – 73.3	317.8	500

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

Location	Average ($\mu g/m^3$)	Range ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
AM2 (Fanling Government Secondary School)	38.8	18.6 – 73.4	200.7	260

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

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

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

4 NOISE MONITORING

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

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

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

	Average (dB(A)) $L_{eq\ (30\ mins)}$	Range (dB(A)) $L_{eq\ (30\ mins)}$	Limit Level (dB(A)) $L_{eq\ (30\ mins)}$
M2* (West Tai Wo)	68.1	63.1 – 69.7	75
M3# (Fanling Government Secondary School)	64.7	58.9 – 68.3	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 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, 10,846 m^3 of inert C&D material was generated in the reporting period 0 m^3 was broken concrete, 4,516 m^3 was reused in the Contract, 4,714 m^3 was reused in other Projects and 1,616 m^3 was disposed as public fill to Tuen Mun 38). 275 kg of general refuse was disposed of at NENT landfill. 4,562 kg of metals, 191 kg of paper and 0 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	1,616 m^3	Tuen Mun 38
Broken concrete	0 m^3	Tuen Mun 38
C&D wastes disposed as general refuse	275 m^3	NENT Landfill
Paper/cardboard packaging	191 kg	Recycling Facilities
Plastics	0 kg	Recycling Facilities
Metals	4,562 kg	Recycling Facilities
C&D materials reused on site	4,516 m^3	Site Area
C&D materials reused in other projects	4,714 m^3	Other projects
Chemical wastes	0 kg	Licensed Contractors

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 Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.

7.1.3 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

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

Contract No. HY/2012/06

Air Quality Impact

- The Contractor was advised to spray the dry exposed area regularly for dust suppression.
- The Contractor was advised to cover the exposed stockpile of dusty materials entirely with impervious sheeting for dust suppression.
- The Contractor was advised to affix valid NRMM labels to all required equipment before operation.
- The Contractor was advised to keep the wheel washing area clear of dusty materials.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor was reminded to ensure the channel directing the runoff from the wheel washing facility to sedimentation tank without overflow.
- The Contractor was advised to remove the muddy water leaked and ensure the perimeter channel collecting surface water effectively without overflow.
- The Contractor was advised to remove the mud trails near the vehicle exit and ensure the perimeter channel collecting surface water effectively without overflow.
- The Contractor was advised to clear the muddy water leaked outside the site area and provide bunding at the site boundary to prevent leakage of surface runoff to public area.
- The Contractor was advised to remove the dusty materials near the drainage entrance and provide proper protection for drainage system.
- The Contractor was advised to ensure the bunding at the site boundary traps the polluted surface runoff inside the site area effectively to prevent leakage of polluted surface runoff.

Chemical and Waste Management

- The Contractor was advised to clear the oil stain and ensure drip trays are provided for all chemical containers to prevent leakage.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor was reminded to remove the stagnant water at NB62 and treat the wastewater properly before discharge.
- The Contractor was reminded to remove the stagnant water at Ho Ka Yuen Footbridge or apply larvicidal oil 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.

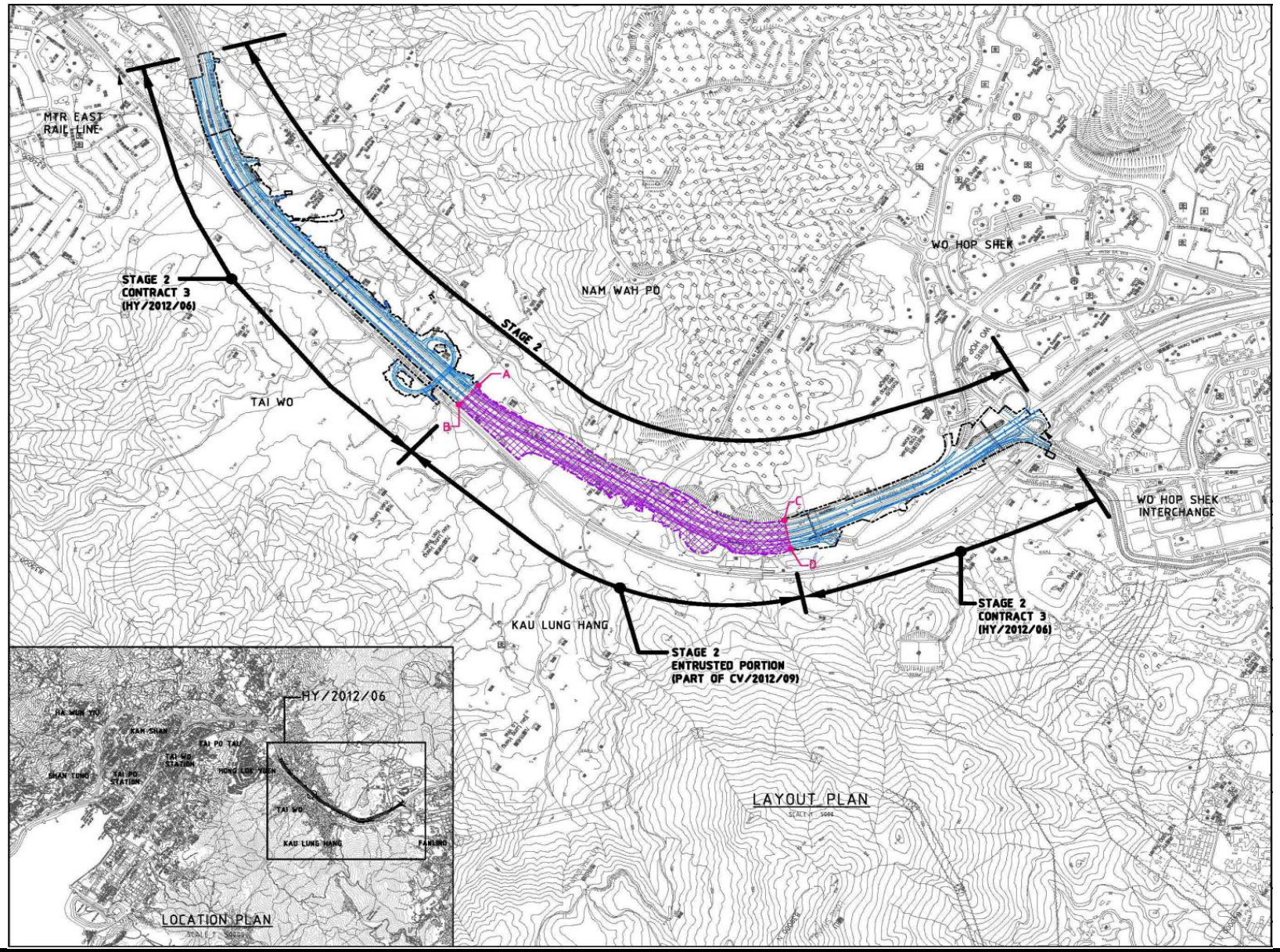
8.3 Conclusions

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 Environmental Team in the reporting period.

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

FIGURES



	EASTING	NORTHING
A	833867.6259	837386.5638
B	833945.6833	837375.1412
C	833721.8117	838310.5250
D	833782.3083	838375.1303

CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

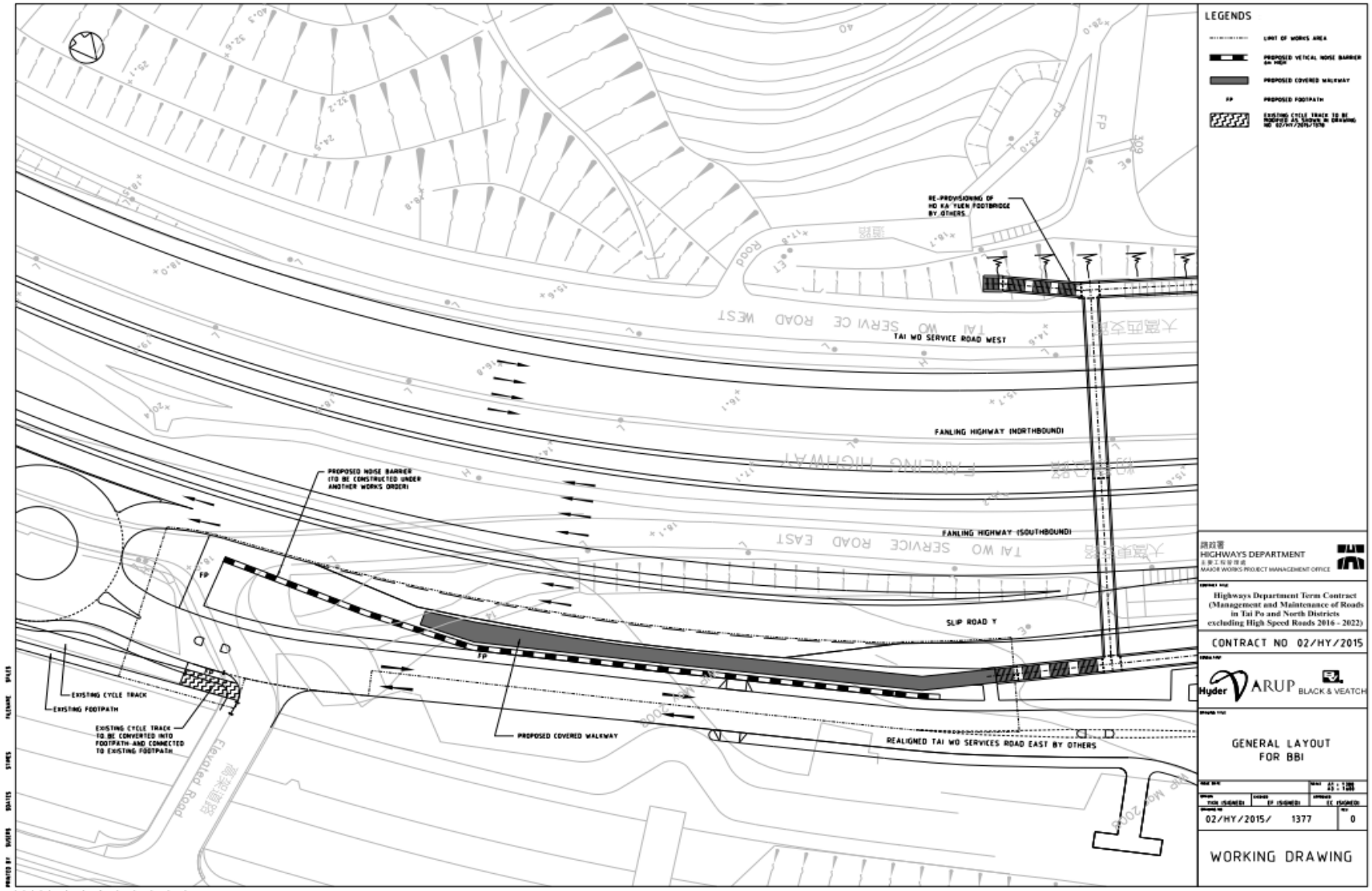
- TAI HANG TO WO HOP SHEK INTERCHANGE

AECOM

Layout Plan

Date: Dec 2013

Figure 1.1



CONTRACT NO. 02/HY/2015

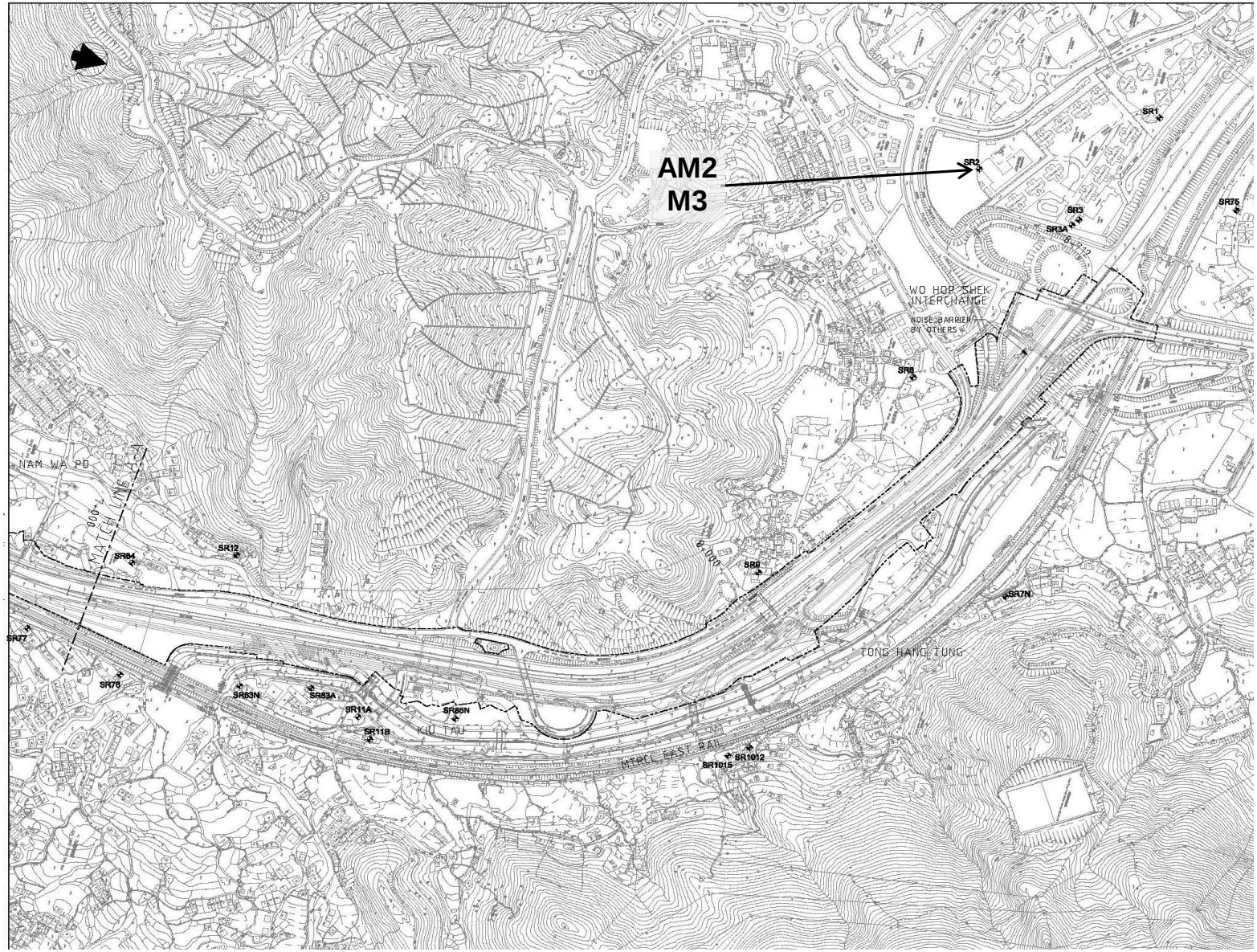
PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND

AECOM

Layout Plan

Date: Apr 2017

Figure 1.2



CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

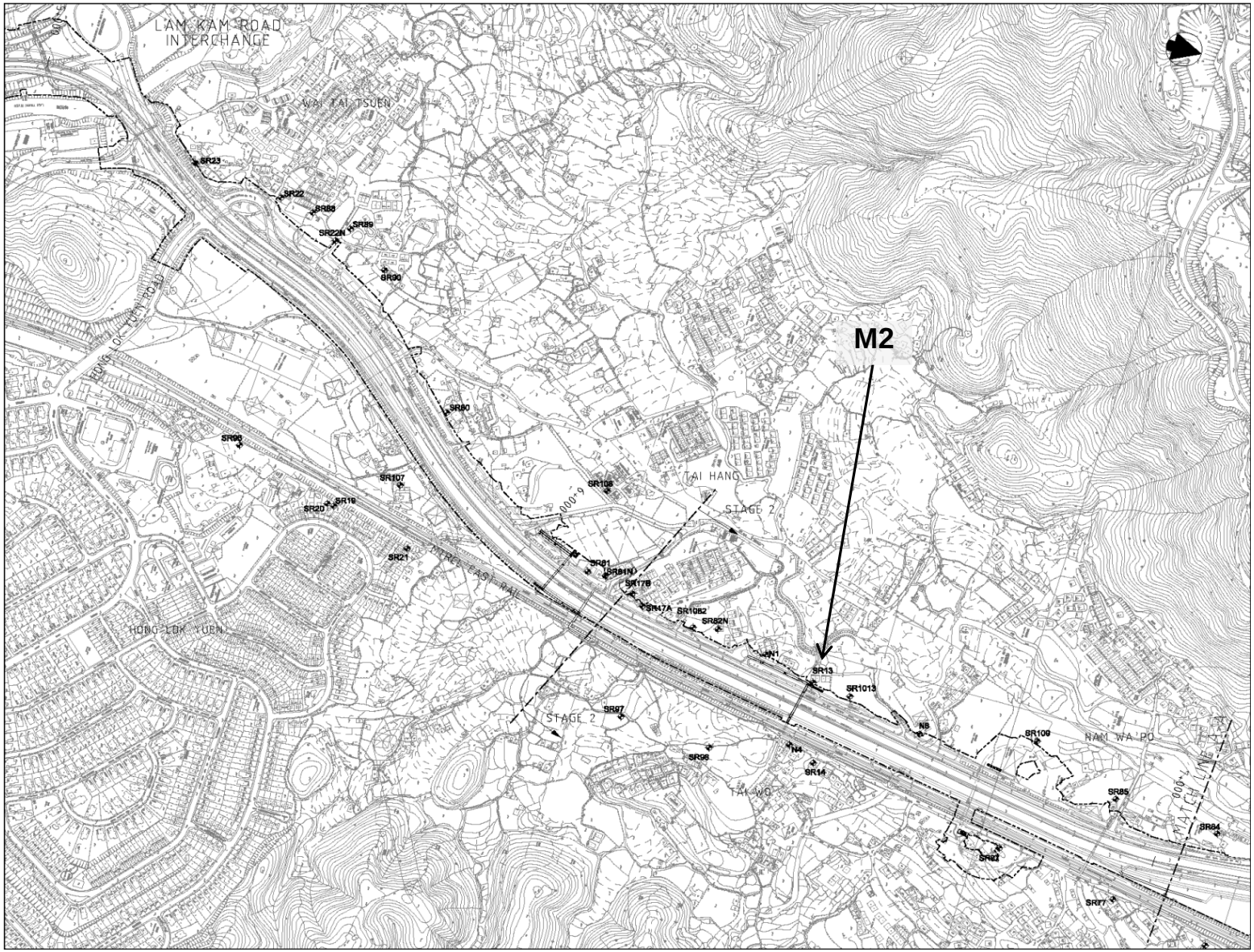
- TAI HANG TO WO HOP SHEK INTERCHANGE

AECOM

Locations of Monitoring Station

Date: Dec 2013

Figure 1.3a



CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

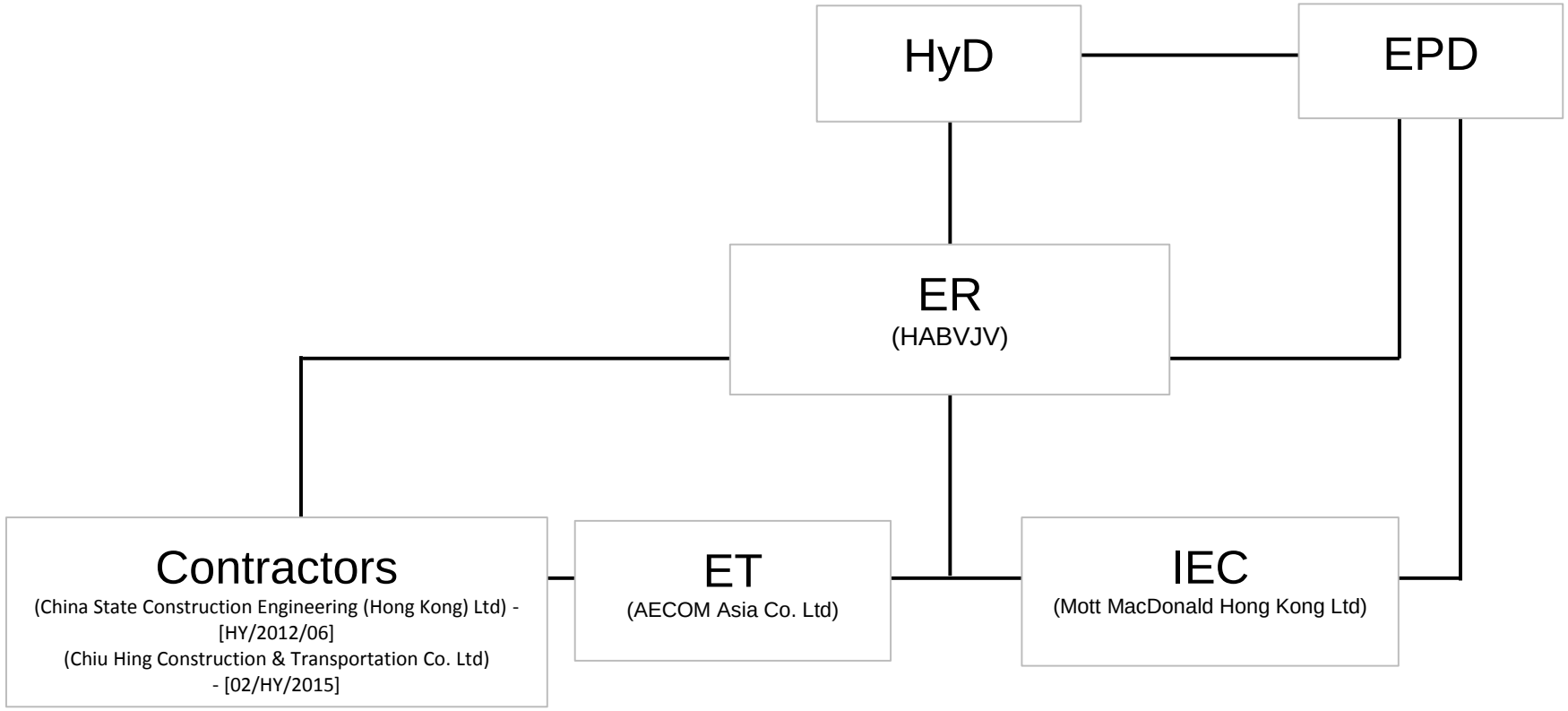
AECOM

Locations of Monitoring Station

Date: Dec 2013

Figure 1.3b

APPENDIX A
PROJECT ORGANIZATION STRUCTURE



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

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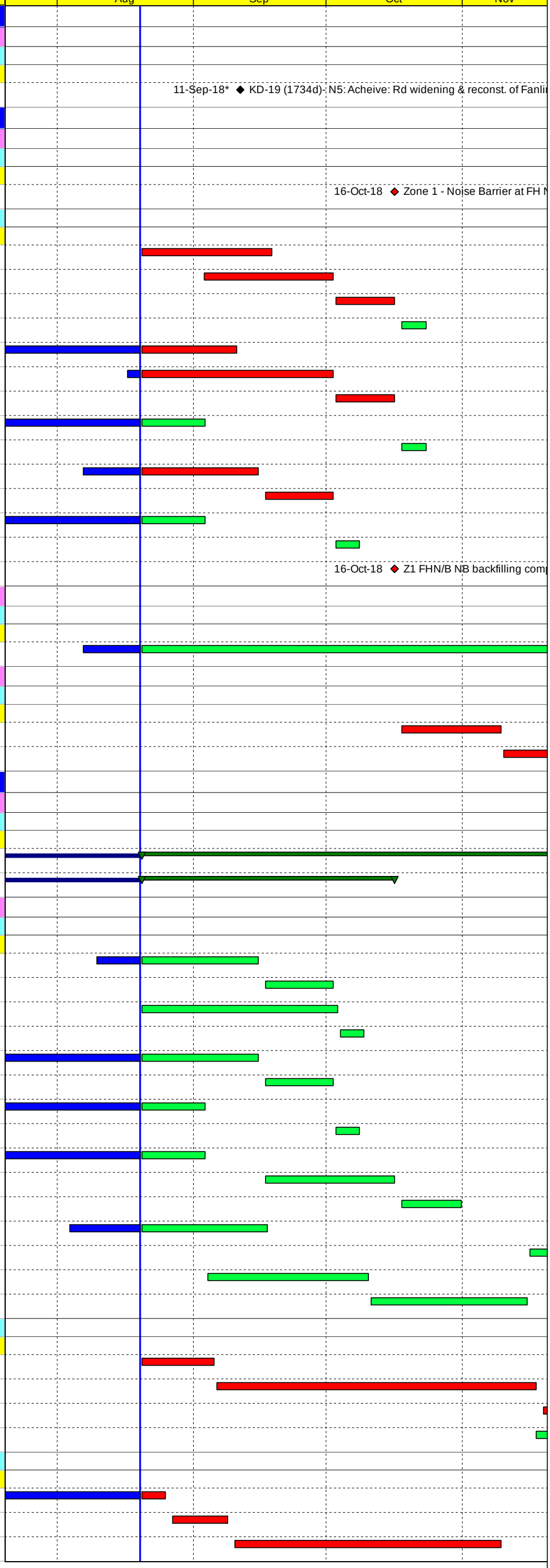
Project Organization Structure

APPENDIX B
CONSTRUCTION PROGRAMMES

CONSTRUCTION PROGRAMME OF AUGUST 2018

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
Contract Condition							
General							
Contract Condition							
Contract Condition							
KD19	KD-19 (1734d)- N5: Acheive: Rd widening & reconst. of Fanling	0%	0	0		11-Sep-18	119
ZONE 1 (Ch. 5640 to 5880)							
Noise Barrier Along Fanling Highway N/B							
Site Clearance & Demolition of Existing Structure							
General							
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0%	0	0		16-Oct-18	-5
NB43B (Ch.5640-5880)-FH N/B Side							
Noise Barrier Works							
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	0%	26	26	20-Aug-18	18-Sep-18	-5
NB01225	NB43B-1 (0-100m) - Drainage Works	0%	24	24	03-Sep-18	02-Oct-18	-5
NB01230	NB43B-1 - backfilling	0%	12	12	03-Oct-18	16-Oct-18	-5
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	18-Oct-18	23-Oct-18	174
NB01270	NB43B-2 - Footing & Wall Structure (bay 9-16)	89.27%	19	177	13-Jan-18 A	10-Sep-18	0
NB01275	NB43B-2 (100-200m) - Drainage Works	0%	36	24	17-Aug-18 A	02-Oct-18	-5
NB01280	NB43B-2 - backfilling	0%	12	12	03-Oct-18	16-Oct-18	-5
NB01290	NB43B-2 - NB production	73.68%	15	57	08-Jun-18 A	03-Sep-18	259
NB01300	NB43B-2 - NB post & panel installation	0%	5	5	18-Oct-18	23-Oct-18	174
NB01325	NB43B-3 (200-260m) - Drainage Works	0%	24	24	07-Aug-18 A	15-Sep-18	7
NB01330	NB43B-3 - backfilling	0%	12	12	17-Sep-18	02-Oct-18	7
NB01340	NB43B-3 - NB production	66.67%	15	45	20-Jun-18 A	03-Sep-18	259
NB01350	NB43B-3 - NB post & panel installation	0%	5	5	03-Oct-18	08-Oct-18	186
NB03295	Z1 FHN/B NB backfilling completed	0%	0	0		16-Oct-18	-5
TWSR-West Construction							
Drainage & Road Works							
Ch 5640-5880							
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works near N/B	0%	180	180	07-Aug-18 A	26-Mar-19	47
Fanling Highway Construction							
Drainage & Road Works							
Ch 5640-5880							
RDZ11010	Z1 (Ch5640-5880): Fanling Highway N/B - D&R works (lane	0%	20	20	18-Oct-18	09-Nov-18	-5
RDZ11020	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane	0%	20	20	10-Nov-18	03-Dec-18	-5
ZONE 2 (Ch. 5880 to 6930)							
General							
DRM Proposal							
DRM Proposal							
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	54.29%	165	361	20-Nov-17 A	08-Mar-19	-50
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	83.67%	48	294	05-Oct-17 A	16-Oct-18	-5
Noise Barrier Along Fanling Highway N/B							
NB43A (Ch.5880-6060)-FH N/B Side							
Noise Barrier Works							
NB001105	NB43A- ID1-2 Drainage Works	0%	24	24	10-Aug-18 A	15-Sep-18	31
NB001110	NB43A - ID1-2 backfilling	0%	12	12	17-Sep-18	02-Oct-18	79
NB001120	NB43A - ID1-2 NB production	0%	45	45	20-Aug-18	03-Oct-18	204
NB001130	NB43A - ID1-2 NB post & panel installation	0%	5	5	04-Oct-18	09-Oct-18	165
NB01525	NB43A-1 (0-61.5m) - Drainage Works	38.46%	24	39	03-Jul-18 A	15-Sep-18	79
NB01530	NB43A-1 - backfilling	0%	12	12	17-Sep-18	02-Oct-18	79
NB01540	NB43A-1 - NB production	66.67%	15	45	20-Jul-18 A	03-Sep-18	234
NB01550	NB43A-1 - NB post & panel installation	0%	5	5	03-Oct-18	08-Oct-18	166
NB01570	NB43A-2 - Footing & Wall Structure (bay 7-14)	87.13%	13	101	03-Apr-18 A	03-Sep-18	42
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	0%	24	24	17-Sep-18	16-Oct-18	31
NB01580	NB43A-2 - backfilling	0%	12	12	18-Oct-18	31-Oct-18	55
NB01590	NB43A-2 - NB production	35.56%	29	45	04-Aug-18 A	17-Sep-18	220
NB01600	NB43A-2 - NB post & panel installation	0%	5	5	16-Nov-18	21-Nov-18	129
NB03330	Bus Shelter footing at NB43A - VO86	0%	30	30	04-Sep-18	10-Oct-18	60
NB03340	Relocate Bus Shelter installation - VO86	0%	30	30	11-Oct-18	15-Nov-18	129
NB50 (Ch.6060-6130)-FH N/B Side							
Noise Barrier Works							
NB001160	NB50 -Sheet piling & Excavation	0%	15	15	20-Aug-18	05-Sep-18	4
NB001170	NB50 -Footing & Wall Structure	0%	60	60	06-Sep-18	17-Nov-18	4
NB001175	NB50 - Drainage Works	0%	24	24	19-Nov-18	15-Dec-18	4
NB001190	NB50 -NB production	0%	45	45	17-Nov-18	01-Jan-19	114
NB50A (Ch.6130-6450)-FH N/B Side							
Noise Barrier Works							
NB001220	NB50A - ID2-2 piling (0.19m -18no)	71.43%	6	21	17-Jul-18 A	25-Aug-18	-25
NB001230	NB50A - ID2-2 Sheet piling & Excavation	0%	12	12	27-Aug-18	08-Sep-18	-25
NB001240	NB50A - ID2-2 Footing & Wall Structure	0%	50	50	10-Sep-18	09-Nov-18	-25



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Crit. Milestone

Project ID:WP Rev 06 (1808)

Layout: 3 Month Rolling Program

Page 1 of 5

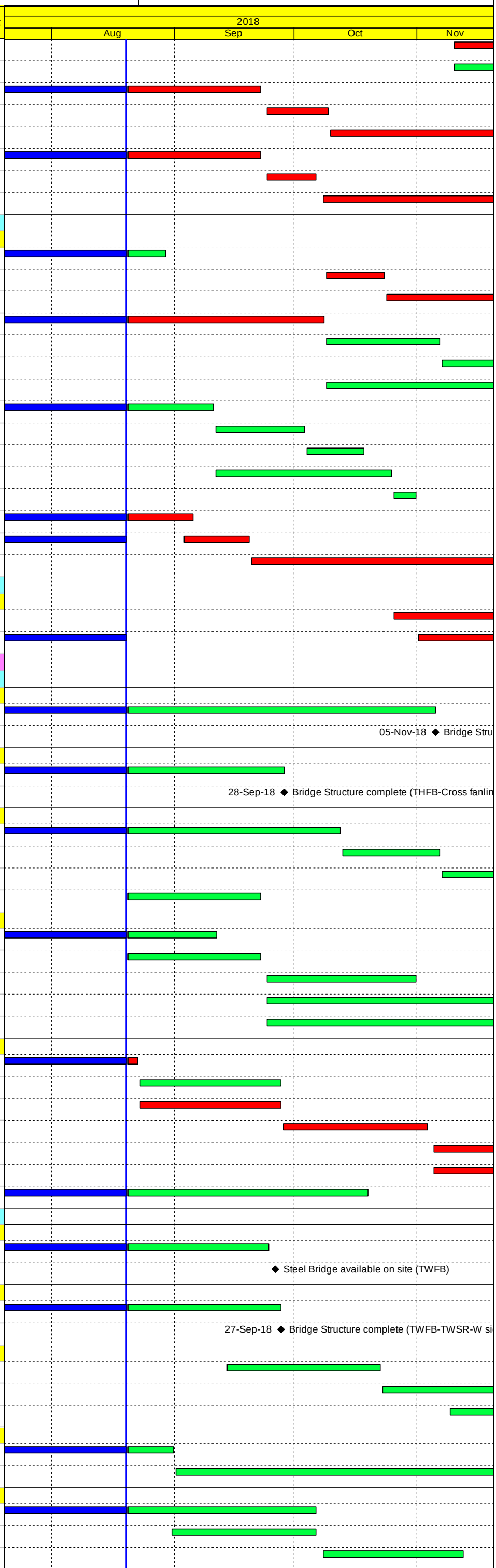
Contract No. HY/2012/06

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

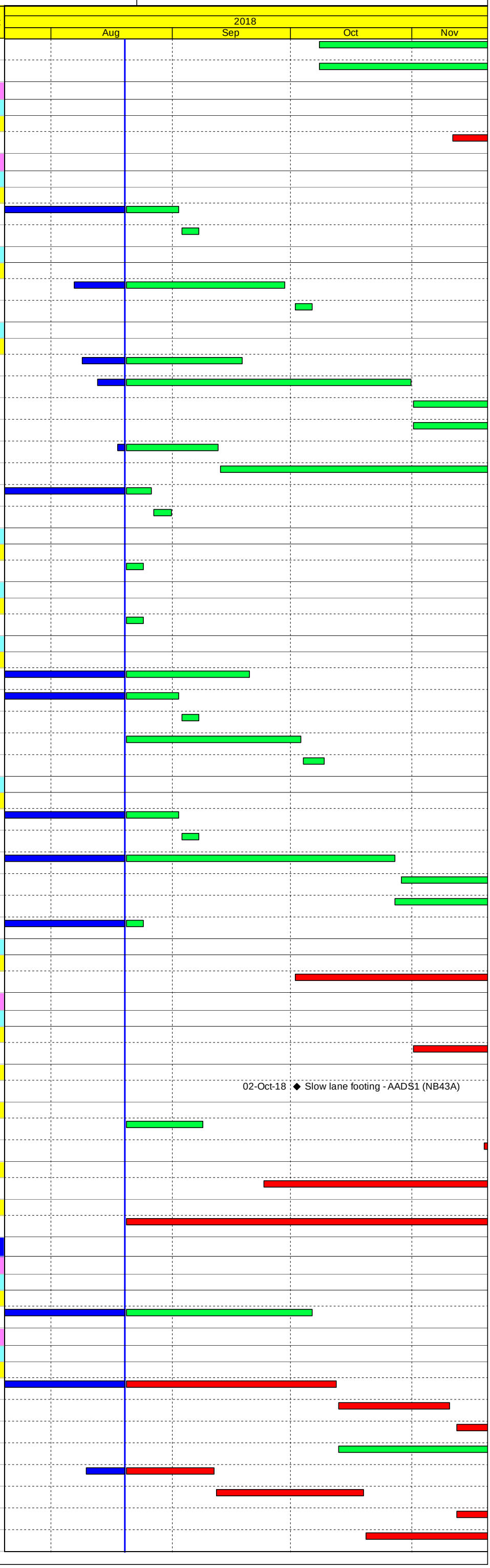
3 Month Rolling Program(20-Aug-18)

Date	Revision	C..	Ap...
28-Aug-15	WP Rev 2		
07-Apr-16	WP Rev 3		
08-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
28-Mar-18	WP Rev 6		

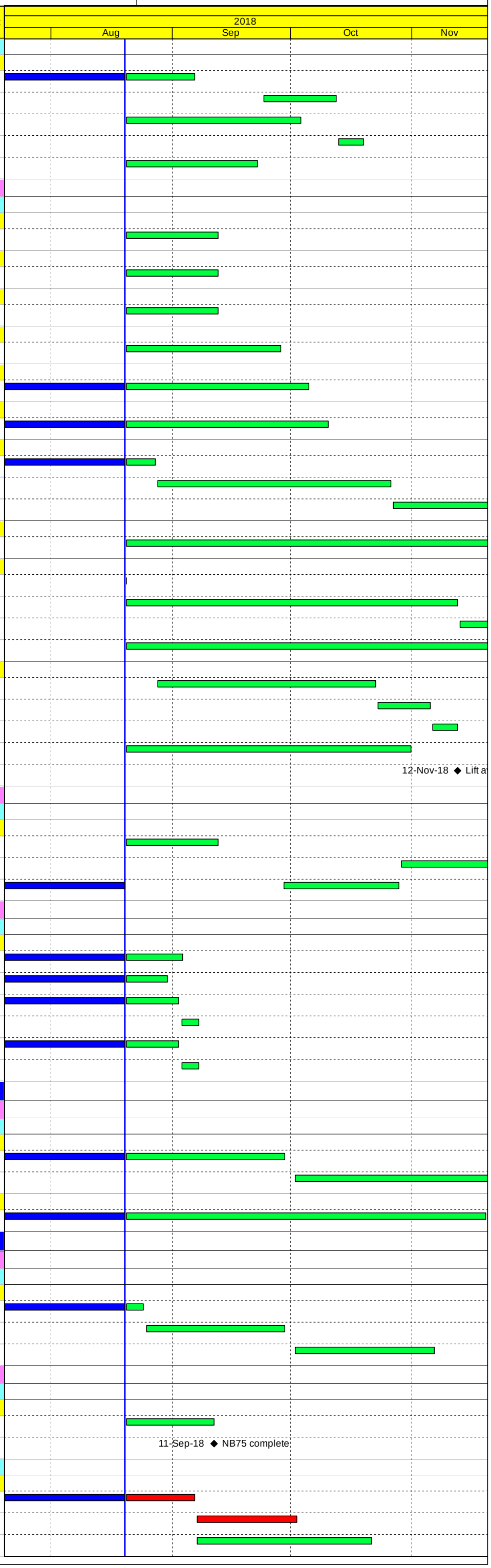
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB001245	NB50A - ID2-2 Drainage Works	0%	18	18	10-Nov-18	30-Nov-18	-25
NB001260	NB50A - ID2-2 NB production	0%	45	45	10-Nov-18	24-Dec-18	122
NB01606	NB50A (0-108m)(NB50A/1-11, 0.19m -60nos) Piling (s3)	64.71%	30	85	31-May-18 A	22-Sep-18	-50
NB01610	NB50A (0-108m) - Sheet piling & Excavation	0%	12	12	24-Sep-18	09-Oct-18	-50
NB01620	NB50A(0-108m) - Footing & Wall Structure	0%	78	78	10-Oct-18	12-Jan-19	-50
NB01656	NB50A (132-228m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos)	62.96%	30	81	31-May-18 A	22-Sep-18	-50
NB01660	NB50A (132-228m) - Sheet piling & Excavation	0%	10	10	24-Sep-18	06-Oct-18	-50
NB01670	NB50A (132-228m) - Footing & Wall Structure	0%	71	71	08-Oct-18	02-Jan-19	-50
NB60 (Ch.6450-6920)-FH N/B Side							
Noise Barrier Works							
NB01770	NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling	89.77%	9	88	08-May-18 A	29-Aug-18	28
NB01780	NB60-1 (15-63m) - Sheet piling & Excavation	0%	12	12	09-Oct-18	23-Oct-18	-4
NB01790	NB60-1 -(15-63m) Footing & Wall Structure	0%	30	30	24-Oct-18	27-Nov-18	-4
NB01860	NB60-2 - Footing & Wall Structure	69.85%	41	136	27-Apr-18 A	08-Oct-18	-4
NB01865	NB60-2 (108-174m) - Drainage Works	0%	24	24	09-Oct-18	06-Nov-18	38
NB01870	NB60-2 - backfilling	0%	12	12	07-Nov-18	20-Nov-18	38
NB01880	NB60-2 - NB production	0%	45	45	09-Oct-18	22-Nov-18	154
NB01930	NB60-ID3-2 - Footing & Wall Structure	62%	19	50	20-Jun-18 A	10-Sep-18	42
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	0%	18	18	11-Sep-18	03-Oct-18	42
NB01940	NB60-ID3-2 - backfilling	0%	12	12	04-Oct-18	18-Oct-18	66
NB01950	NB60-ID3-2 - NB production	0%	45	45	11-Sep-18	25-Oct-18	182
NB01960	NB60-ID3-2 - NB post & panel installation	0%	5	5	26-Oct-18	31-Oct-18	147
NB01980	NB60 (192-300m)(NB60/16-25, 0.19m -40nos) Piling	89.8%	15	147	01-Feb-18 A	05-Sep-18	-32
NB01990	NB60-3 (192-300m) - Sheet piling & Excavation	73.68%	15	57	11-Jun-18 A	19-Sep-18	-32
NB02000	NB60-3 (192-300m) - Footing & Wall Structure	0%	60	60	20-Sep-18	01-Dec-18	-32
Underground Utility Works							
Underground Utility Works							
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	0%	120	120	26-Oct-18	22-Feb-19	-47
UU0110	Towngas duct laying and associated work before backfill in Zone 1 & 2	56.18%	120	274	20-Apr-18 A	28-Feb-19	-47
Bridge Construction							
New Tai Hang Footbridge							
TWSR-West/ FL Highway N/B Side Section							
THBF0620	Finishes Work	86.53%	64	475	27-Feb-17 A	05-Nov-18	143
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		05-Nov-18	143
Crossing Fanling Highway Section							
THBF0590	Finishes Work	42.37%	34	59	20-Jun-18 A	28-Sep-18	173
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		28-Sep-18	173
TWSR-East FL Highway S/B Side Section							
THBF0470	THAB1 - pile cap & abutment wall	91.98%	45	561	21-Nov-16 A	12-Oct-18	82
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	13-Oct-18	06-Nov-18	82
THBF0570	Erect Stairecase (THFB-TWSR-E side)	0%	30	30	07-Nov-18	11-Dec-18	82
THBF0800	ABWF work	0%	30	30	20-Aug-18	22-Sep-18	177
Lift at TWSR-W Side							
L1530	Structural Laminated glass wall installation	78.72%	20	94	20-Apr-18 A	11-Sep-18	84
L1550	Metal cover on RC platform	0%	30	30	20-Aug-18	22-Sep-18	57
L1555	Glass canopy on ground level	0%	30	30	24-Sep-18	31-Oct-18	147
L1560	Lift installation (NF115)	0%	70	70	24-Sep-18	17-Dec-18	74
L1590	E&M and Finishes work	0%	120	120	24-Sep-18	19-Feb-19	57
Lift at FLHY S/B							
L1370	Lift shaft & roof	99.48%	3	582	20-Sep-16 A	22-Aug-18	0
L1380	Structural Laminated glass wall installation	0%	30	30	23-Aug-18	27-Sep-18	30
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	23-Aug-18	27-Sep-18	0
L1400	Roof cover for RC Platform	0%	30	30	28-Sep-18	03-Nov-18	0
L1410	Lift installation (NF78)	0%	70	70	05-Nov-18	28-Jan-19	0
L1440	E&M and Finishes work	0%	100	100	05-Nov-18	06-Mar-19	4
L1450	CLP Power available (by CLP)	92.83%	61	851	21-Jun-16 A	19-Oct-18	101
New Tai Wo Footbridge							
General							
TWFB1090	Steel Bridge prefabrication (TWFB)	95.06%	31	627	15-Aug-16 A	24-Sep-18	86
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	26-Sep-18		86
TWSR-West/ FL Highway N/B Side Section							
TWFB1390	Finishes Work	91.85%	33	405	20-May-17 A	27-Sep-18	160
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		27-Sep-18	160
Crossing Fanling Highway Section							
TWFB1440	TWP2 - Pile cap	0%	30	30	14-Sep-18*	22-Oct-18	20
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	23-Oct-18	13-Dec-18	20
TWFB1448	Erect Temp tower for TWFB erection at Central Divier	0%	30	30	09-Nov-18	13-Dec-18	20
TWSR-East FL Highway S/B Side Section							
TWFB1550	TWP3 - Pre-bored H pile (6 nos)	64.52%	11	31	05-Jul-18 A	31-Aug-18	31
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	01-Sep-18	30-Nov-18	31
Lift at TWSR-W Side							
L1680	Structural Laminated glass wall installation	71.22%	40	139	17-Mar-18 A	06-Oct-18	33
L1700	Metal cover on RC platform	0%	30	30	31-Aug-18	06-Oct-18	33
L1710	Glass canopy on ground level	0%	30	30	08-Oct-18	12-Nov-18	490



Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
L1740	Lift installation	0%	70	70	08-Oct-18	31-Dec-18	46
L1770	E&M and Finishes work	0%	120	120	08-Oct-18	02-Mar-19	33
Signalized Junction							
New Tai Hang Footbridge							
TWSR-West/ FL Highway N/B Side Section							
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	0%	90	90	11-Nov-18	08-Feb-19	-33
Noise Barrier Along Fanling Highway S/B							
NB51 (Ch.5935-6055)-FH S/B Side							
Noise Barrier Works							
NB02300	NB51 ID1-3 (0-25m) - NB production	96.82%	14	440	20-May-17 A	02-Sep-18	235
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	03-Sep-18	07-Sep-18	190
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB03380	NB52 (bay 21)- Footing & Wall Structure & backfill	0%	35	35	07-Aug-18 A	29-Sep-18	167
NB03390	NB52 (bay 21) - NB post & panel installation	0%	5	5	02-Oct-18	06-Oct-18	167
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	09-Aug-18 A	18-Sep-18	161
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	13-Aug-18 A	31-Oct-18	97
NB02460	NB53 (0-100m)- backfilling	0%	50	50	01-Nov-18	31-Dec-18	97
NB02470	NB53 (0-100m) - NB production	0%	45	45	01-Nov-18	15-Dec-18	131
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	18-Aug-18 A	12-Sep-18	71
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	0%	60	60	13-Sep-18	24-Nov-18	71
NB02590	NB53 (125-180m) - NB production	99.12%	7	798	20-May-16 A	26-Aug-18	242
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	27-Aug-18	31-Aug-18	196
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02670	NB55 - NB post & panel installation	0%	5	5	20-Aug-18	24-Aug-18	202
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02740	NB56 - NB post & panel installation	0%	5	5	20-Aug-18	24-Aug-18	202
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02790	NB61 (0-50m)- backfilling	83.72%	28	172	20-Jan-18 A	20-Sep-18	179
NB02800	NB61 (0-50m) - NB production	92.82%	14	195	20-Jan-18 A	02-Sep-18	235
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	03-Sep-18	07-Sep-18	190
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Aug-18	03-Oct-18	204
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Oct-18	09-Oct-18	165
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02920	NB61A (0-50m) - NB production	98.44%	14	895	20-Feb-16 A	02-Sep-18	235
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	03-Sep-18	07-Sep-18	190
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	94.43%	57	1024	01-Apr-15 A	27-Oct-18	110
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Oct-18	20-Nov-18	125
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	27-Oct-18	11-Dec-18	135
NB03050	NB61A (75-190m) - NB post & panel installation	92.54%	5	67	05-May-18 A	24-Aug-18	202
Box Culvert ID3 Works							
VO58 Extension of ID3							
ID30140	Wing Wall Construction	0%	60	60	02-Oct-18*	10-Dec-18	3
Other Works							
TCSS Works							
TCSS Pre-Construction Works							
TCSS0210	Sign Gantry Factory production - G55	0%	30	30	01-Nov-18	05-Dec-18	-33
AADS1							
TCSS1400	Slow lane footing - AADS1 (NB43A)	0%	0	0		02-Oct-18	111
ADS1							
TCSS1970	Back filling & reinstatemetn road work (2m)	0%	18	18	20-Aug-18	08-Sep-18	99
TCSS1980	TTA application & Approval - ADS1	0%	90	90	19-Nov-18	08-Mar-19	-48
FADS1							
TCSS2050	TTA application & Approval - FADS1	0%	90	90	24-Sep-18	12-Jan-19	-33
G55							
TCSS1740	TTA application & Approval - G55	0%	90	90	20-Aug-18	05-Dec-18	-33
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)							
Noise Barrier Along TWSR-West and Laying New Utilities							
NB64 & NB64A (Ch.6860-6920)-TWSR West Side							
Noise Barrier Works							
NB003350	Bus Shelter footing & shelter near NB64 - VO86	55.06%	40	89	21-May-18 A	06-Oct-18	167
Noise Barrier Along Fanling Highway N/B							
NB60 (Ch.6450-6920)-FH N/B Side							
Noise Barrier Works							
NB02060	NB60-4 - Footing & Wall Structure	8.16%	45	49	16-Jul-18 A	12-Oct-18	-2
NB02065	NB60-4 (300-408m) - Drainage Works	0%	24	24	13-Oct-18	10-Nov-18	-2
NB02070	NB60-4 - backfilling	0%	20	20	12-Nov-18	04-Dec-18	-2
NB02080	NB60-4 - NB production	0%	45	45	13-Oct-18	26-Nov-18	150
NB02110	NB60-5 (408-468m) - Sheet piling & Excavation	0%	20	12	10-Aug-18 A	11-Sep-18	1
NB02120	NB60-5 - Footing & Wall Structure	0%	30	30	12-Sep-18	19-Oct-18	1
NB02125	NB60-5 (408-468m) - Drainage Works	0%	24	24	12-Nov-18	08-Dec-18	10
NB02140	NB60-5 - NB production	0%	40	40	20-Oct-18	28-Nov-18	2



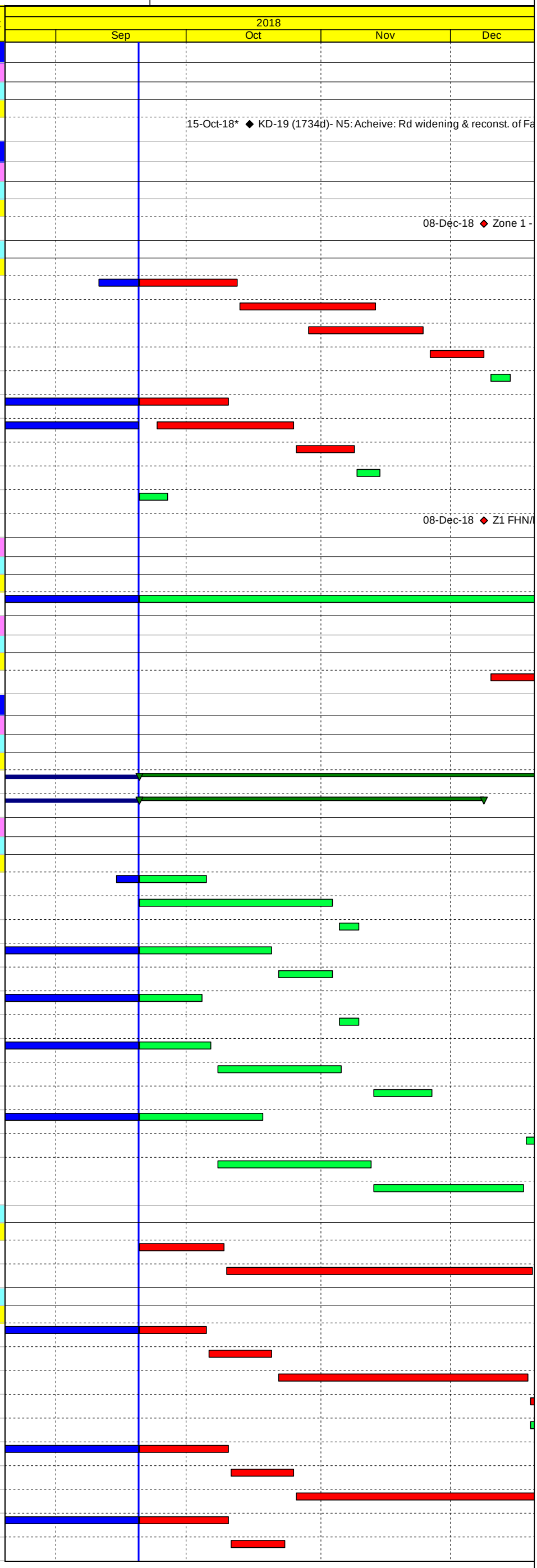
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB66 (Ch.6920-6930)-FH N/B Side							
Noise Barrier Works							
NB02165	NB66 - Drainage Works	78.95%	16	76	08-May-18 A	06-Sep-18	27
NB02170	NB66- backfilling	0%	15	15	24-Sep-18	12-Oct-18	70
NB02180	NB66 - NB production	0%	45	45	20-Aug-18	03-Oct-18	204
NB02190	NB66 - NB post & panel installation	0%	5	5	13-Oct-18	19-Oct-18	157
NB03320	Bus Shelter footing - VO86	0%	30	30	20-Aug-18	22-Sep-18	70
Bridge Construction							
Kau Lung Hang Vehicular Bridge							
KLH Bridge - West Ramp							
KLH.1290	West Ramp - Planting	0%	21	21	20-Aug-18	12-Sep-18	186
KLH Bridge - Deck 1							
KLH.3430	Deck 1 - Planting	0%	21	21	20-Aug-18	12-Sep-18	186
KLH Bridge - Deck 3							
KLH.3500	Deck 3 - Planting	0%	21	21	20-Aug-18	12-Sep-18	218
KLH Bridge - East Ramp							
KLH.3590	East Ramp - Planting	0%	34	34	20-Aug-18	28-Sep-18	526
KLH Bridge - Ramp R1							
Z2.KLH.3610	Ramp R1 - Steel roof	92.22%	39	501	19-Jan-17 A	05-Oct-18	168
KLH Bridge - Ramp R2							
Z2.KLH.1550	Ramp R2 - Steel roof	90.79%	43	467	14-Mar-17 A	10-Oct-18	164
KLH Bridge - Staircase S1							
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	93.44%	8	122	28-Apr-18 A	27-Aug-18	11
Z2.KLH.1462	S1 - Steel work ordering	0%	60	60	28-Aug-18	26-Oct-18	11
Z2.KLH.1464	S1 - Steel work prefabrication	0%	30	30	27-Oct-18	25-Nov-18	11
Bridge Road Work							
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Aug-18	12-Jan-19	87
Lift at TWSR-W Side							
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Aug-18	20-Aug-18	118
L01100	Lift installation	0%	70	70	20-Aug-18	12-Nov-18	118
L01110	Lift T&C	0%	14	14	13-Nov-18	28-Nov-18	118
L01130	Finishes work	0%	88	88	20-Aug-18	03-Dec-18	119
Lift at FLHY S/B							
L01260	Lift installation	0%	45	45	28-Aug-18*	22-Oct-18	141
L01270	Lift T&C	0%	14	14	23-Oct-18	05-Nov-18	171
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	06-Nov-18	12-Nov-18	171
L01290	Finishes work	0%	60	60	20-Aug-18	31-Oct-18	147
L01310	Lift available - NF117-Lift 2	0%	0	0		12-Nov-18	137
Signalized Junction							
Kau Lung Hang Vehicular Bridge							
KLH Bridge - West Ramp							
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Aug-18*	12-Sep-18	180
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	0%	30	30	29-Oct-18	01-Dec-18	78
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	76%	30	125	20-May-18 A	28-Oct-18	94
Noise Barrier Along Fanling Highway S/B							
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB03120	NB62 (0-80m) - NB post & panel installation	74.51%	13	51	04-Jun-18 A	03-Sep-18	194
NB03150	NB62 (80-110m) Under bridge - backfilling	83.05%	10	59	21-May-18 A	30-Aug-18	192
NB03160	NB62 (80-110m) Under bridge - NB production	81.33%	14	75	20-May-18 A	02-Sep-18	235
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	03-Sep-18	07-Sep-18	190
NB03210	NB62 (110-170m) - NB production	81.33%	14	75	20-May-18 A	02-Sep-18	235
NB03220	NB62 (110-170m) - NB post & panel installation	0%	5	5	03-Sep-18	07-Sep-18	190
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)							
Bridge Construction							
New Ho Ka Yuen Footbridge							
TWSR-West/ FL Highway N/B Side Section							
HKY1440	Remaining Finishes works of HKYFB	93.43%	35	533	21-Nov-16 A	29-Sep-18	159
HKY1520	VO11 - slope improvement work	0%	45	45	02-Oct-18	23-Nov-18	159
TWSR-East FL Highway S/B Side Section							
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	87.21%	76	594	13-Oct-16 A	19-Nov-18	163
ZONE 4 (Ch. 7925 to 8700)							
Noise Barrier Along TWSR-West and Laying New Utilities							
Underground Utility Works							
DN450 DI Watermain "A" (Ch 1989-2529)							
DI0180	DN450 DI watermain laying (400-450m)	93.67%	5	79	20-Apr-18 A	24-Aug-18	124
DI0190	DN450 DI watermain laying (450-500m)	0%	30	30	25-Aug-18	29-Sep-18	124
DI0200	DN450 DI watermain laying (500-540m)	0%	30	30	02-Oct-18	06-Nov-18	124
Noise Barrier Along Fanling Highway N/B							
NB75 (Ch.7930-8090)-FH N/B Side							
Noise Barrier Works							
NB4275	NB75 - NB panel installation	0%	20	20	20-Aug-18	11-Sep-18	69
NB4280	NB75 complete	0%	0	0		11-Sep-18	69
NB77 (Ch.8090-8450)-FH N/B Side							
Noise Barrier Works							
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	94.87%	16	312	20-Jul-17 A	06-Sep-18	-1
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	07-Sep-18	02-Oct-18	-1
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	07-Sep-18	21-Oct-18	26



Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	0%	15	15	22-Oct-18	07-Nov-18	23
NB4400	NB77 - NB post & panel installation (Ch8190-8290)	0%	15	15	20-Aug-18	05-Sep-18	74
NB4440	NB77 - backfilling (Ch8290-8390)	0%	20	20	03-Oct-18	26-Oct-18	-1
NB4450	NB77 - NB production (Ch8290-8390)	79.59%	20	98	03-May-18 A	08-Sep-18	69
NB4460	NB77 - NB post & panel installation (Ch8290-8390)	0%	15	15	27-Oct-18	13-Nov-18	18
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	88.1%	10	84	20-Apr-18 A	30-Aug-18	-7
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	0%	40	40	31-Aug-18	19-Oct-18	-7
NB4500	NB77 - backfilling (Ch8390-8450)	0%	12	12	20-Oct-18	02-Nov-18	-7
NB4510	NB77 - NB production (Ch8390-8450)	0%	30	30	20-Oct-18	18-Nov-18	10
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	0%	5	5	19-Nov-18	23-Nov-18	9
NB4570	NB77 backfilling complete	0%	0	0		02-Nov-18	-7
NB4620	NB77 Drainage Works	70.59%	35	119	10-May-18 A	29-Sep-18	15
Bridge Construction							
New Wo Hop Shek Pedstrian & Cycle Bridge							
TWSR-West/ FL Highway N/B Side Section							
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	24-Sep-18	17-Nov-18	134
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	20-Jul-18 A	22-Sep-18	152
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	24-Sep-18	27-Oct-18	152
WHS1280	Steel Staircase ready for erection (WHS-TWSR-W side)	0%	0	0		17-Nov-18	134
WHS1290	Erect Stairecase (WHS-TWSR-W side)	0%	30	30	19-Nov-18	22-Dec-18	134
WHS1420	Ramp Finishes Work	16.67%	30	36	13-Jul-18 A	22-Sep-18	134
TWSR-West Construction							
Drainage & Road Works							
TWSR-West/ FL Highway N/B Side Section							
RDZ41180	TWSR -W Road Works rectification	0%	50	50	07-Nov-18	07-Jan-19	124
Fanling Highway Construction							
Drainage & Road Works							
TWSR-West/ FL Highway N/B Side Section							
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	0%	20	20	20-Aug-18 A	11-Sep-18	35
RDZ41109	TTA Lane 4 (at NBZ2) with Chun Wo	0%	0	0		11-Sep-18	35
RDZ41110	Construct FH N/B Lane 1 (Ch8100-8600)	0%	20	20	03-Nov-18	26-Nov-18	-7
TWSR-East FL Highway S/B Side Section							
RDZ41133	Construct FH S/B Lane 3 (Ch8100-8470)	76.47%	36	153	27-Mar-18 A	02-Oct-18	99
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8470)	76.47%	36	153	27-Mar-18 A	02-Oct-18	99
Other Works							
Retaining Wall W78							
TWSR-East FL Highway S/B Side Section							
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site	78%	11	50	27-Jun-18 A	31-Aug-18	-6
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	0%	60	60	01-Sep-18	13-Nov-18	19
RWZ4.1030	Base slab & Wall (0-6m high)- RW78 (Ch.50-129)	0%	85	85	01-Sep-18	12-Dec-18	-6
Slope Works							
TWSR-East FL Highway S/B Side Section							
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Aug-18	06-Oct-18	163
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Aug-18	06-Oct-18	163
TCSS Works							
TCSS Pre-Construction Works							
TCSS0140	Revised & Re-submission TCSS shop Drawing	57.69%	11	26	11-Jul-18 A	31-Aug-18	549
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0	0		31-Aug-18	549
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	20-Aug-18	20-Aug-18	560
TCSS0230	Sign Gantry Factory production - G34 (Z4)	0%	30	30	20-Aug-18	22-Sep-18	59
TCSS0250	Sign Gantry Factory production - G36 (Z4)	0%	30	30	01-Nov-18	05-Dec-18	29
G34							
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	20-Aug-18	22-Sep-18	59
TCSS1780	TTA application & Approval - G34 (Z4)	66.67%	30	90	20-Jun-18 A	22-Sep-18	59
TCSS1790	Sign Gantry Erection - G34 (Z4)	0%	30	30	24-Sep-18	31-Oct-18	59
G35							
TCSS1540	Slow lane footing - G35 (NB77)	0%	0	0		02-Nov-18	147
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	0%	30	30	10-Aug-18 A	22-Sep-18	179
G36							
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0%	0	0		31-Oct-18	29
TCSS1820	TTA application & Approval - G36 (Z4)	0%	90	90	20-Aug-18	05-Dec-18	29
DS50							
TCSS1840	TTA application & Approval - DS50 (Z4)	0%	90	90	24-Sep-18	12-Jan-19	29
FADS8							
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	20-Aug-18	22-Sep-18	149
TCSS1860	TTA application & Approval - FADS8 (Z4)	0%	90	90	01-Nov-18	19-Feb-19	29
TCSS Hub Room							
TCSS1900	TCSS Hub Room Structure	0%	45	45	20-Aug-18	12-Oct-18	104
TCSS1910	TCSS Hub Room Finishes	0%	45	45	13-Oct-18	05-Dec-18	104

CONSTRUCTION PROGRAMME OF SEPTEMBER 2018

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
Contract Condition							
General							
Contract Condition							
Contract Condition							
KD19	KD-19 (1734d)- N5: Acheive: Rd widening & reconst. of Fanling	0%	0	0		15-Oct-18*	85
ZONE 1 (Ch. 5640 to 5880)							
Noise Barrier Along Fanling Highway N/B							
Site Clearance & Demolition of Existing Structure							
General							
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0%	0	0		08-Dec-18	-50
NB43B (Ch.5640-5880)-FH N/B Side							
Noise Barrier Works							
NB01216	NB43B-0 - Structure works of additional bay between tolo 2 & 3 -	0%	18	5	11-Sep-18 A	12-Oct-18	-50
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	0%	26	26	13-Oct-18	13-Nov-18	-50
NB01225	NB43B-1 (0-100m) - Drainage Works	0%	24	24	29-Oct-18	24-Nov-18	-50
NB01230	NB43B-1 - backfilling	0%	12	12	26-Nov-18	08-Dec-18	-50
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	10-Dec-18	14-Dec-18	129
NB01270	NB43B-2 - Footing & Wall Structure (bay 9-16)	91.79%	16	195	13-Jan-18 A	10-Oct-18	-24
NB01275	NB43B-2 (100-200m) - Drainage Works	34.21%	25	38	17-Aug-18 A	25-Oct-18	-24
NB01280	NB43B-2 - backfilling	0%	12	12	26-Oct-18	08-Nov-18	-24
NB01300	NB43B-2 - NB post & panel installation	0%	5	5	09-Nov-18	14-Nov-18	155
NB01350	NB43B-3 - NB post & panel installation	0%	5	5	20-Sep-18	26-Sep-18	195
NB03295	Z1 FHN/B NB backfilling completed	0%	0	0		08-Dec-18	-50
TWSR-West Construction							
Drainage & Road Works							
Ch 5640-5880							
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works near N/B	19.9%	153	191	07-Aug-18 A	26-Mar-19	47
Fanling Highway Construction							
Drainage & Road Works							
Ch 5640-5880							
RDZ11010	Z1 (Ch5640-5880): Fanling Highway N/B - D&R works (lane	0%	20	20	10-Dec-18	04-Jan-19	-50
ZONE 2 (Ch. 5880 to 6930)							
General							
DRM Proposal							
DRM Proposal							
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	60.78%	151	385	20-Nov-17 A	23-Mar-19	-63
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	78.36%	66	305	05-Oct-17 A	08-Dec-18	-50
Noise Barrier Along Fanling Highway N/B							
NB43A (Ch.5880-6060)-FH N/B Side							
Noise Barrier Works							
NB001110	NB43A - ID1-2 backfilling	0%	12	12	15-Sep-18 A	05-Oct-18	76
NB001120	NB43A - ID1-2 NB production	0%	45	45	20-Sep-18 A	03-Nov-18	173
NB001130	NB43A - ID1-2 NB post & panel installation	0%	5	5	05-Nov-18	09-Nov-18	139
NB01525	NB43A-1 (0-61.5m) - Drainage Works	63.08%	24	65	03-Jul-18 A	20-Oct-18	52
NB01530	NB43A-1 - backfilling	0%	12	12	22-Oct-18	03-Nov-18	52
NB01540	NB43A-1 - NB production	67.39%	15	46	20-Jul-18 A	04-Oct-18	203
NB01550	NB43A-1 - NB post & panel installation	0%	5	5	05-Nov-18	09-Nov-18	139
NB01570	NB43A-2 - Footing & Wall Structure (bay 7-14)	89.76%	13	127	03-Apr-18 A	06-Oct-18	15
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	0%	24	24	08-Oct-18	05-Nov-18	15
NB01580	NB43A-2 - backfilling	0%	12	12	13-Nov-18	26-Nov-18	33
NB01590	NB43A-2 - NB production	35.56%	29	45	04-Aug-18 A	18-Oct-18	189
NB01600	NB43A-2 - NB post & panel installation	0%	5	5	18-Dec-18	22-Dec-18	102
NB03330	Bus Shelter footing at NB43A - VO86	0%	30	30	08-Oct-18	12-Nov-18	33
NB03340	Relocate Bus Shelter installation - VO86	0%	30	30	13-Nov-18	17-Dec-18	102
NB50 (Ch.6060-6130)-FH N/B Side							
Noise Barrier Works							
NB001160	NB50 -Sheet piling & Excavation	0%	15	15	20-Sep-18	09-Oct-18	-23
NB001170	NB50 -Footing & Wall Structure	0%	60	60	10-Oct-18	19-Dec-18	-23
NB50A (Ch.6130-6450)-FH N/B Side							
Noise Barrier Works							
NB001220	NB50A - ID2-2 piling (0.19m -18no)	65.71%	12	35	17-Jul-18 A	05-Oct-18	-58
NB001230	NB50A - ID2-2 Sheet piling & Excavation	0%	12	12	06-Oct-18	20-Oct-18	-58
NB001240	NB50A - ID2-2 Footing & Wall Structure	0%	50	50	22-Oct-18	18-Dec-18	-58
NB001245	NB50A - ID2-2 Drainage Works	0%	18	18	19-Dec-18	11-Jan-19	-58
NB001260	NB50A - ID2-2 NB production	0%	45	45	19-Dec-18	01-Feb-19	83
NB01606	NB50A (0-108m)(NB50A/1-11, 0.19m -60nos) Piling (s3)	83.51%	16	97	31-May-18 A	10-Oct-18	-63
NB01610	NB50A (0-108m) - Sheet piling & Excavation	0%	12	12	11-Oct-18	25-Oct-18	-63
NB01620	NB50A(0-108m) - Footing & Wall Structure	0%	78	78	26-Oct-18	28-Jan-19	-63
NB01656	NB50A (132-228m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos)	83.51%	16	97	31-May-18 A	10-Oct-18	-63
NB01660	NB50A (132-228m) - Sheet piling & Excavation	0%	10	10	11-Oct-18	23-Oct-18	-63



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Crit. Milestone

Project ID:WP Rev 06 (1809)

Layout: 3 Month Rolling Program

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Contract No. HY/2012/06

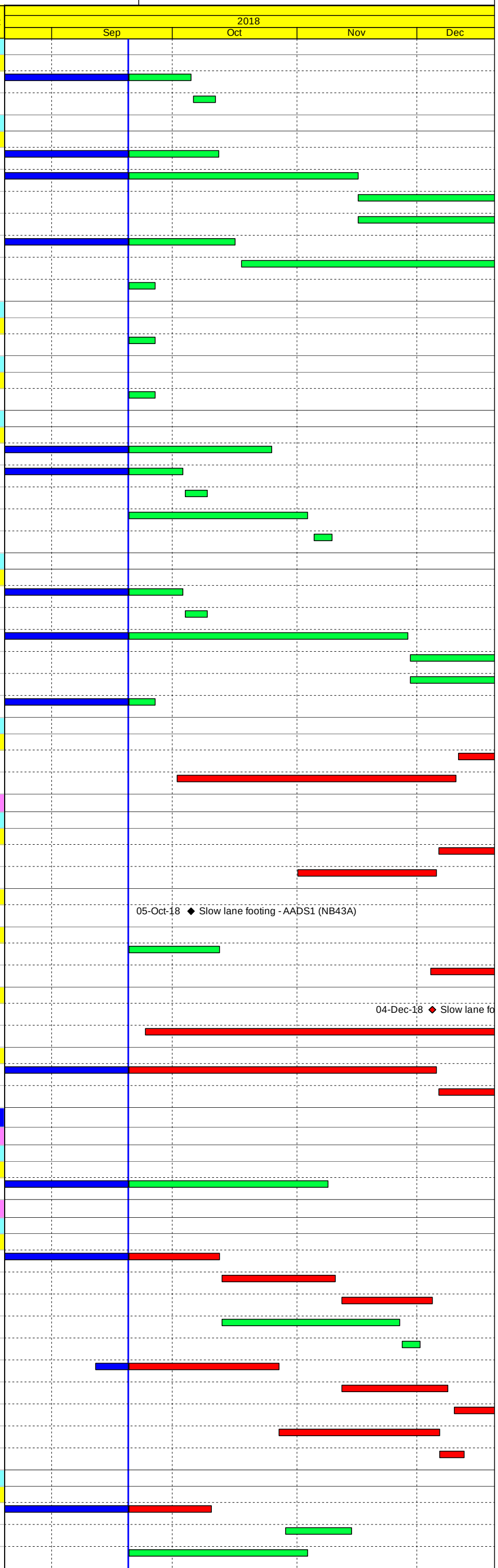
Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

3 Month Rolling Program(20-Sep-18)

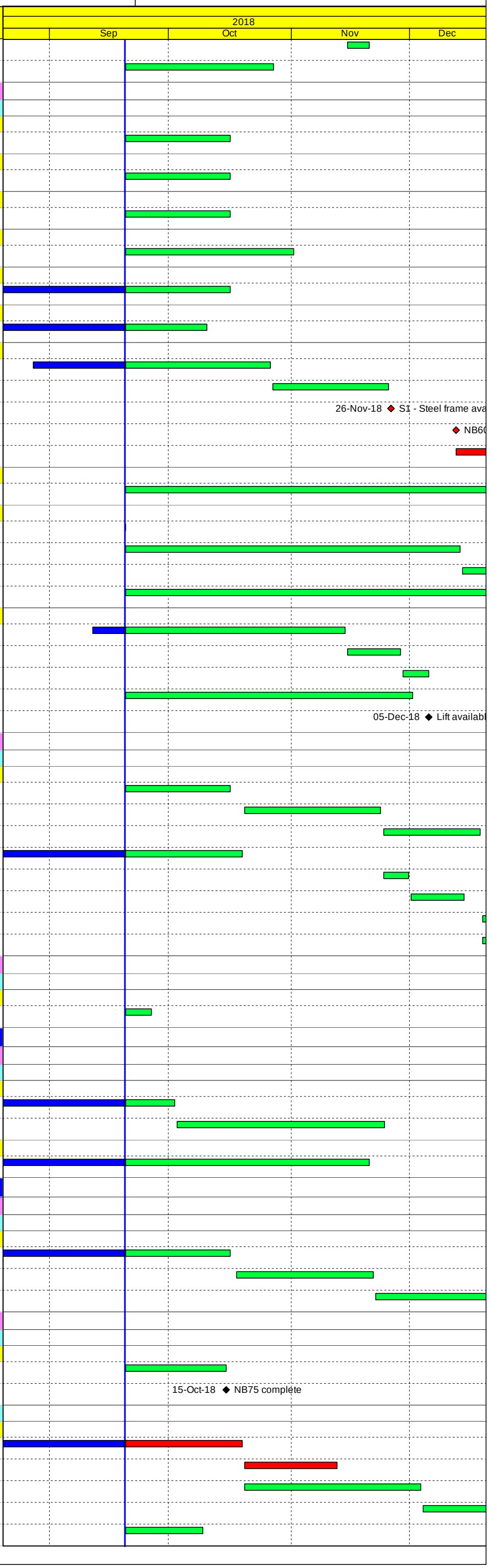
Date	Revision	C..	Ap...
28-Aug-15	WP Rev 2		
07-Apr-16	WP Rev 3		
08-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
28-Mar-18	WP Rev 6		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB01670	NB50A (132-228m) - Footing & Wall Structure	0%	71	71	24-Oct-18	17-Jan-19	-63
NB60 (Ch.6450-6920)-FH N/B Side							
Noise Barrier Works							
NB01780	NB60-1 (15-63m) - Sheet piling & Excavation	0%	12	12	20-Sep-18 A	05-Oct-18	10
NB01790	NB60-1 -(15-63m) Footing & Wall Structure	0%	30	30	06-Oct-18	10-Nov-18	10
NB01810	NB60-1 - NB production	0%	45	45	10-Nov-18	25-Dec-18	121
NB01860	NB60-2 - Footing & Wall Structure	91.11%	12	135	27-Apr-18 A	05-Oct-18	40
NB01865	NB60-2 (108-174m) - Drainage Works	0%	24	24	13-Oct-18	10-Nov-18	34
NB01870	NB60-2 - backfilling	0%	12	12	12-Nov-18	24-Nov-18	34
NB01880	NB60-2 - NB production	0%	45	45	06-Oct-18	19-Nov-18	157
NB01890	NB60-2 - NB post & panel installation	0%	5	5	26-Nov-18	30-Nov-18	121
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	0%	18	18	20-Sep-18	12-Oct-18	34
NB01940	NB60-ID3-2 - backfilling	0%	12	12	13-Oct-18	27-Oct-18	58
NB01950	NB60-ID3-2 - NB production	0%	45	45	20-Sep-18	03-Nov-18	173
NB01960	NB60-ID3-2 - NB post & panel installation	0%	5	5	05-Nov-18	09-Nov-18	139
NB01990	NB60-3 (192-300m) - Sheet piling & Excavation	82.35%	15	85	11-Jun-18 A	09-Oct-18	-17
NB02000	NB60-3 (192-300m) - Footing & Wall Structure	0%	60	60	20-Aug-18 A	01-Dec-18	-32
NB02005	NB60-3 (192-300m) - Drainage Works	0%	24	24	03-Dec-18	02-Jan-19	-32
NB02020	NB60-3 - NB production	0%	45	45	01-Dec-18	15-Jan-19	100
Underground Utility Works							
Underground Utility Works							
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	0%	120	120	09-Nov-18	09-Mar-19	-62
UU0110	Towngas duct laying and associated work before backfill in Zone 1 & 2	61.9%	120	315	20-Apr-18 A	15-Mar-19	-62
Bridge Construction							
New Tai Hang Footbridge							
TWSR-West/ FL Highway N/B Side Section							
THBF0620	Finishes Work	92.42%	38	501	27-Feb-17 A	06-Nov-18	142
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		06-Nov-18	142
Crossing Fanling Highway Section							
THBF0590	Finishes Work	90.59%	8	85	20-Jun-18 A	29-Sep-18	172
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		29-Sep-18	172
TWSR-East FL Highway S/B Side Section							
THBF0470	THAB1 - pile cap & abutment wall	91.91%	45	556	21-Nov-16 A	14-Nov-18	55
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	15-Nov-18	07-Dec-18	55
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	08-Dec-18	15-Jan-19	55
THBF0800	ABWF work	0%	30	30	20-Sep-18	27-Oct-18	150
Lift at TWSR-W Side							
L1530	Structural Laminated glass wall installation	83.33%	20	120	20-Apr-18 A	15-Oct-18	57
L1550	Metal cover on RC platform	0%	30	30	20-Sep-18	27-Oct-18	30
L1555	Glass canopy on ground level	0%	30	30	29-Oct-18	01-Dec-18	120
L1560	Lift installation (NF115)	0%	70	70	29-Oct-18	21-Jan-19	47
L1590	E&M and Finishes work	0%	120	120	29-Oct-18	22-Mar-19	30
Lift at FLHY S/B							
L1380	Structural Laminated glass wall installation	0%	30	30	20-Sep-18	27-Oct-18	6
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	20-Sep-18	27-Oct-18	-24
L1400	Roof cover for RC Platform	0%	30	30	29-Oct-18	01-Dec-18	-24
L1410	Lift installation (NF78)	0%	70	70	03-Dec-18	27-Feb-19	-24
L1440	E&M and Finishes work	0%	100	100	03-Dec-18	03-Apr-19	-20
L1450	CLP Power available (by CLP)	92.83%	61	851	21-Jun-16 A	19-Nov-18	70
New Tai Wo Footbridge							
General							
TWFB1090	Steel Bridge prefabrication (TWFB)	95.02%	31	623	15-Aug-16 A	29-Oct-18	59
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	30-Oct-18		59
TWSR-West/ FL Highway N/B Side Section							
TWFB1390	Finishes Work	91.85%	33	405	20-May-17 A	31-Oct-18	133
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		31-Oct-18	133
Crossing Fanling Highway Section							
TWFB1440	TWP2 - Pile cap	0%	30	30	20-Sep-18*	27-Oct-18	15
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	29-Oct-18	19-Dec-18	15
TWFB1448	Erect Temp tower for TWFB erection at Central Divier	0%	30	30	15-Nov-18	19-Dec-18	15
TWSR-East FL Highway S/B Side Section							
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	20-Sep-18	19-Dec-18	15
Lift at TWSR-W Side							
L1680	Structural Laminated glass wall installation	92.12%	13	165	17-Mar-18 A	06-Oct-18	33
L1700	Metal cover on RC platform	0%	30	30	20-Sep-18	27-Oct-18	16
L1710	Glass canopy on ground level	0%	30	30	29-Oct-18	01-Dec-18	473
L1740	Lift installation	0%	70	70	29-Oct-18	21-Jan-19	29
L1770	E&M and Finishes work	0%	120	120	29-Oct-18	22-Mar-19	16
Signalized Junction							
New Tai Hang Footbridge							
TWSR-West/ FL Highway N/B Side Section							
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	0%	90	90	27-Nov-18	24-Feb-19	-49
Noise Barrier Along Fanling Highway S/B							
NB51 (Ch.5935-6055)-FH S/B Side							
Noise Barrier Works							
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	20-Sep-18	26-Sep-18	175

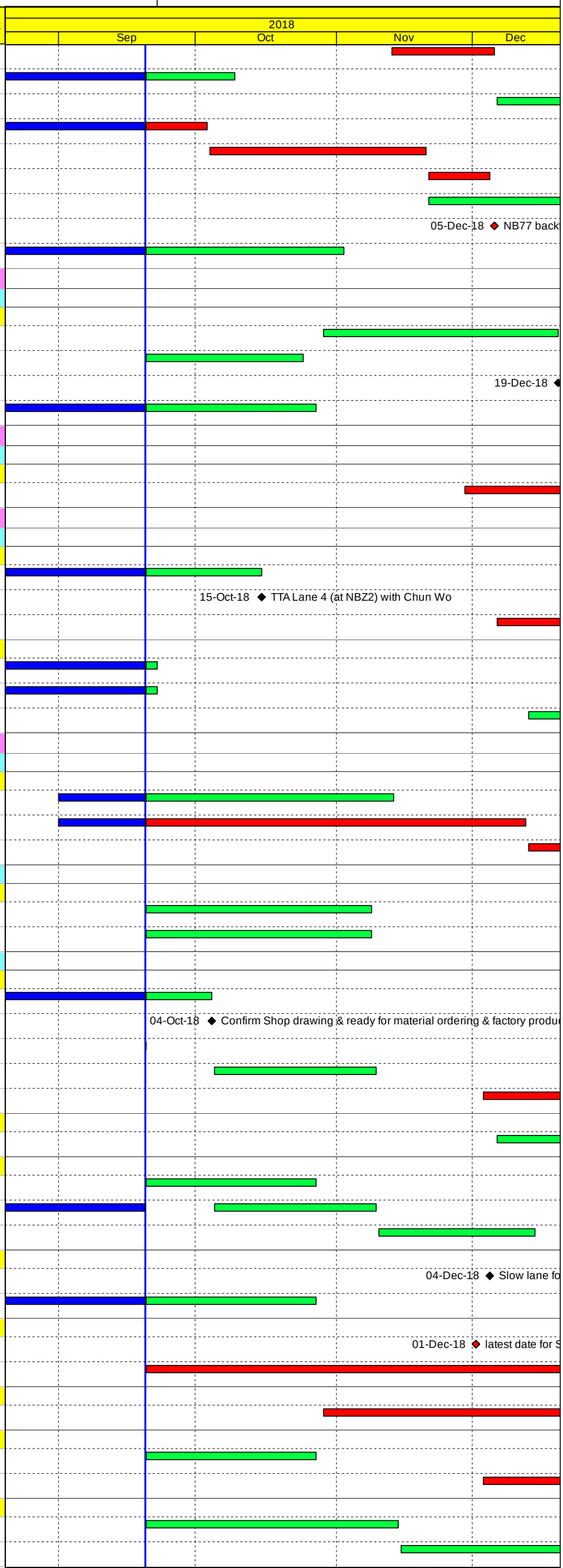
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB03380	NB52 (bay 21)- Footing & Wall Structure & backfill	73.91%	12	46	07-Aug-18 A	05-Oct-18	163
NB03390	NB52 (bay 21) - NB post & panel installation	0%	5	5	06-Oct-18	11-Oct-18	163
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02440	NB53 (0-100m) - Sheet piling & Excavation	50%	18	35	09-Aug-18 A	12-Oct-18	143
NB02450	NB53 (0-100m) - Footing & Wall Structure	30%	46	66	13-Aug-18 A	16-Nov-18	84
NB02460	NB53 (0-100m)- backfilling	0%	50	50	16-Nov-18	17-Jan-19	84
NB02470	NB53 (0-100m) - NB production	0%	45	45	16-Nov-18	31-Dec-18	116
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	4.55%	21	22	18-Aug-18 A	16-Oct-18	44
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	0%	60	60	18-Oct-18	28-Dec-18	44
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	20-Sep-18	26-Sep-18	175
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02670	NB55 - NB post & panel installation	0%	5	5	20-Sep-18	26-Sep-18	175
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02740	NB56 - NB post & panel installation	0%	5	5	20-Sep-18	26-Sep-18	175
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02790	NB61 (0-50m)- backfilling	85.86%	28	198	20-Jan-18 A	25-Oct-18	152
NB02800	NB61 (0-50m) - NB production	93.81%	14	226	20-Jan-18 A	03-Oct-18	204
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	04-Oct-18	09-Oct-18	165
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Sep-18	03-Nov-18	173
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	05-Nov-18	09-Nov-18	139
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02920	NB61A (0-50m) - NB production	98.49%	14	926	20-Feb-16 A	03-Oct-18	204
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Oct-18	09-Oct-18	165
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	94.57%	57	1050	01-Apr-15 A	28-Nov-18	83
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Nov-18	21-Dec-18	98
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	29-Nov-18	12-Jan-19	103
NB03050	NB61A (75-190m) - NB post & panel installation	94.62%	5	93	05-May-18 A	26-Sep-18	175
Box Culvert ID3 Works							
VO58 Extension of ID3							
ID30130	Backfill	0%	20	20	11-Dec-18	05-Jan-19	3
ID30140	Wing Wall Construction	0%	60	60	02-Oct-18*	10-Dec-18	3
Other Works							
TCSS Works							
TCSS Pre-Construction Works							
TCSS0200	Sign Gantry Factory production - FADS1	0%	30	30	06-Dec-18	12-Jan-19	-33
TCSS0210	Sign Gantry Factory production - G55	0%	30	30	01-Nov-18	05-Dec-18	-33
AADS1							
TCSS1400	Slow lane footing - AADS1 (NB43A)	0%	0	0		05-Oct-18	108
ADS1							
TCSS1970	Back filling & reinstatemetn road work (2m)	0%	18	18	20-Sep-18	12-Oct-18	72
TCSS1980	TTA application & Approval - ADS1	0%	90	90	04-Dec-18	23-Mar-19	-61
FADS1							
TCSS1460	Slow lane footing - FADS1 (NB60)	0%	0	0		04-Dec-18	-2
TCSS2050	TTA application & Approval - FADS1	0%	90	90	24-Sep-18	12-Jan-19	-33
G55							
TCSS1740	TTA application & Approval - G55	30%	63	90	20-Aug-18 A	05-Dec-18	-33
TCSS1750	Sign Gantry Erection - G55	0%	30	30	06-Dec-18	12-Jan-19	-33
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)							
Noise Barrier Along TWSR-West and Laying New Utilities							
NB64 & NB64A (Ch.6860-6920)-TWSR West Side							
Noise Barrier Works							
NB003350	Bus Shelter footing & shelter near NB64 - VO86	65.22%	40	115	21-May-18 A	08-Nov-18	140
Noise Barrier Along Fanling Highway N/B							
NB60 (Ch.6450-6920)-FH N/B Side							
Noise Barrier Works							
NB02060	NB60-4 - Footing & Wall Structure	76%	18	75	16-Jul-18 A	12-Oct-18	-2
NB02065	NB60-4 (300-408m) - Drainage Works	0%	24	24	13-Oct-18	10-Nov-18	-2
NB02070	NB60-4 - backfilling	0%	20	20	12-Nov-18	04-Dec-18	-2
NB02080	NB60-4 - NB production	0%	45	45	13-Oct-18	26-Nov-18	150
NB02082	NB60-4 - NB post & panel installation	0%	5	5	27-Nov-18	01-Dec-18	120
NB02120	NB60-5 - Footing & Wall Structure	0%	30	30	12-Sep-18 A	27-Oct-18	-6
NB02125	NB60-5 (408-468m) - Drainage Works	0%	24	24	12-Nov-18	08-Dec-18	10
NB02130	NB60-5 - backfilling	0%	12	12	10-Dec-18	22-Dec-18	10
NB02140	NB60-5 - NB production	0%	40	40	27-Oct-18	06-Dec-18	-6
NB02142	NB60-5 - NB post & panel installation	0%	5	5	06-Dec-18	12-Dec-18	-5
NB66 (Ch.6920-6930)-FH N/B Side							
Noise Barrier Works							
NB02165	NB66 - Drainage Works	84.31%	16	102	08-May-18 A	10-Oct-18	0
NB02170	NB66- backfilling	0%	15	15	29-Oct-18	14-Nov-18	43
NB02180	NB66 - NB production	0%	45	45	20-Sep-18	03-Nov-18	173



Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB02190	NB66 - NB post & panel installation	0%	5	5	15-Nov-18	20-Nov-18	130
NB03320	Bus Shelter footing - VO86	0%	30	30	20-Sep-18	27-Oct-18	43
Bridge Construction							
Kau Lung Hang Vehicular Bridge							
KLH Bridge - West Ramp							
KLH.1290	West Ramp - Planting	0%	21	21	20-Sep-18	16-Oct-18	159
KLH Bridge - Deck 1							
KLH.3430	Deck 1 - Planting	0%	21	21	20-Sep-18	16-Oct-18	159
KLH Bridge - Deck 3							
KLH.3500	Deck 3 - Planting	0%	21	21	20-Sep-18	16-Oct-18	191
KLH Bridge - East Ramp							
KLH.3590	East Ramp - Planting	0%	34	34	20-Sep-18	01-Nov-18	499
KLH Bridge - Ramp R1							
Z2.KLH.3610	Ramp R1 - Steel roof	95.82%	21	502	19-Jan-17 A	16-Oct-18	159
KLH Bridge - Ramp R2							
Z2.KLH.1550	Ramp R2 - Steel roof	96.57%	16	467	14-Mar-17 A	10-Oct-18	164
KLH Bridge - Staircase S1							
Z2.KLH.1462	S1 - Steel work ordering	38.33%	37	60	28-Aug-18 A	26-Oct-18	11
Z2.KLH.1464	S1 - Steel work prefabrication	0%	30	30	27-Oct-18	25-Nov-18	11
Z2.KLH.1466	S1 - Steel frame available on site	0%	0	0		26-Nov-18	10
Z2.KLH.1470	NB60-5 post installation completed for S1	0%	0	0	12-Dec-18		-5
Z2.KLH.1480	S1- Deck Steel Frame erection	0%	30	30	12-Dec-18	19-Jan-19	-5
Bridge Road Work							
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Sep-18	15-Feb-19	60
Lift at TWSR-W Side							
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Sep-18	20-Sep-18	91
L01100	Lift installation	0%	70	70	20-Sep-18	13-Dec-18	91
L01110	Lift T&C	0%	14	14	14-Dec-18	02-Jan-19	91
L01130	Finishes work	0%	88	88	20-Sep-18	07-Jan-19	92
Lift at FLHY S/B							
L01260	Lift installation	0%	45	45	12-Sep-18 A	14-Nov-18	121
L01270	Lift T&C	0%	14	14	15-Nov-18	28-Nov-18	148
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	29-Nov-18	05-Dec-18	148
L01290	Finishes work	0%	60	60	20-Sep-18	01-Dec-18	120
L01310	Lift available - NF117-Lift 2	0%	0	0		05-Dec-18	117
Signalized Junction							
Kau Lung Hang Vehicular Bridge							
KLH Bridge - West Ramp							
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Sep-18*	16-Oct-18	153
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	0%	30	30	20-Oct-18	23-Nov-18	85
Z2.KLH.1052	Installation of Traffic Signal Poles at TWSR-W S/B (KLHVB)	0%	21	21	24-Nov-18	18-Dec-18	85
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	81.48%	30	162	20-May-18 A	19-Oct-18	103
Z2.KLH.1072	Ducting & cable draw inspection by EMSD (KLHVB)	0%	6	6	24-Nov-18	30-Nov-18	103
Z2.KLH.1082	Ducting & cable draw rectification (KLHVB)	0%	12	12	01-Dec-18	14-Dec-18	103
Z2.KLH.1092	PCCW cable installation & connection (KLHVB)	0%	6	6	19-Dec-18	27-Dec-18	100
Z2.KLH.1102	EMSD cable & equipment installation (KLHVB)	0%	21	21	19-Dec-18	15-Jan-19	85
Noise Barrier Along Fanling Highway S/B							
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	20-Sep-18	26-Sep-18	175
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)							
Bridge Construction							
New Ho Ka Yuen Footbridge							
TWSR-West/ FL Highway N/B Side Section							
HKY1440	Remaining Finishes works of HKYFB	98.35%	9	546	21-Nov-16 A	02-Oct-18	158
HKY1520	VO11 - slope improvement work	0%	45	45	03-Oct-18	24-Nov-18	158
TWSR-East FL Highway S/B Side Section							
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	91.94%	50	620	13-Oct-16 A	20-Nov-18	162
ZONE 4 (Ch. 7925 to 8700)							
Noise Barrier Along TWSR-West and Laying New Utilities							
Underground Utility Works							
DN450 DI Watermain "A" (Ch 1989-2529)							
DI0180	DN450 DI watermain laying (400-450m)	80%	21	105	20-Apr-18 A	16-Oct-18	81
DI0190	DN450 DI watermain laying (450-500m)	0%	30	30	18-Oct-18	21-Nov-18	81
DI0200	DN450 DI watermain laying (500-540m)	0%	30	30	22-Nov-18	28-Dec-18	81
Noise Barrier Along Fanling Highway N/B							
NB75 (Ch.7930-8090)-FH N/B Side							
Noise Barrier Works							
NB4275	NB75 - NB panel installation	0%	20	20	20-Sep-18	15-Oct-18	72
NB4280	NB75 complete	0%	0	0		15-Oct-18	72
NB77 (Ch.8090-8450)-FH N/B Side							
Noise Barrier Works							
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	93.2%	23	338	20-Jul-17 A	19-Oct-18	-7
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	20-Oct-18	12-Nov-18	-7
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	20-Oct-18	03-Dec-18	18
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	0%	15	15	04-Dec-18	20-Dec-18	16
NB4400	NB77 - NB post & panel installation (Ch8190-8290)	0%	15	15	20-Sep-18	09-Oct-18	77

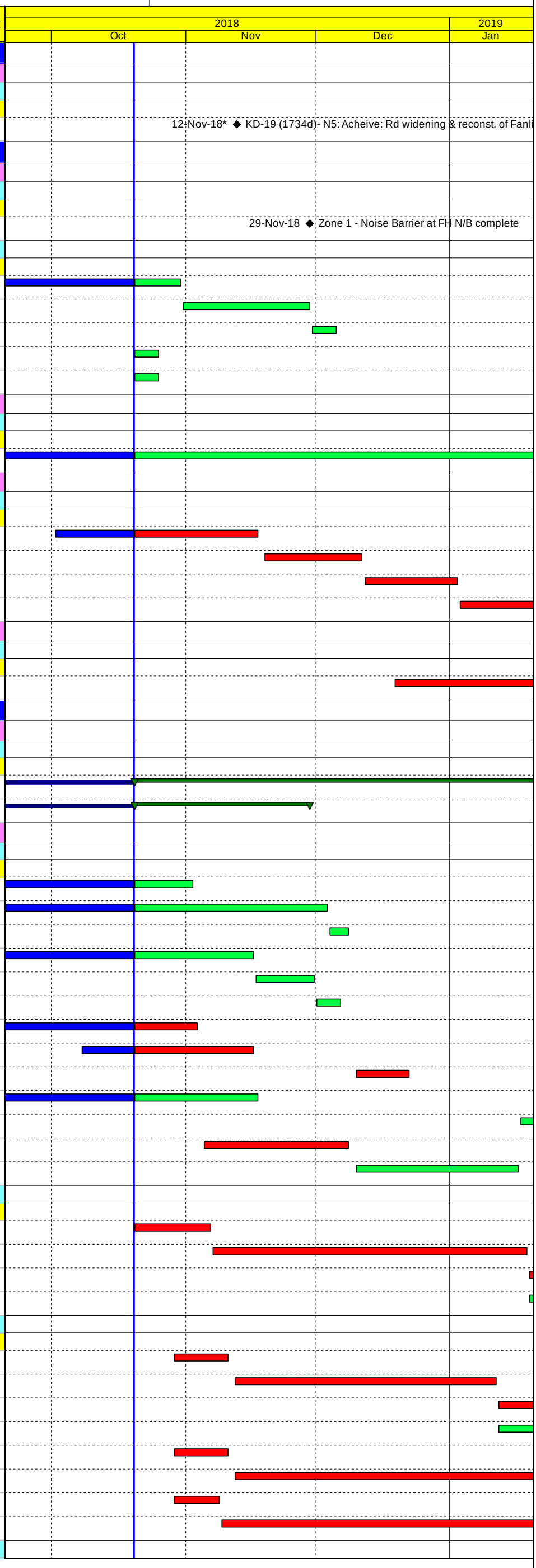


Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB4440	NB77 - backfilling (Ch8290-8390)	0%	20	20	13-Nov-18	05-Dec-18	-7
NB4450	NB77 - NB production (Ch8290-8390)	84.5%	20	129	03-May-18 A	09-Oct-18	73
NB4460	NB77 - NB post & panel installation (Ch8290-8390)	0%	15	15	06-Dec-18	22-Dec-18	14
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	90.91%	10	110	20-Apr-18 A	03-Oct-18	-6
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	0%	40	40	04-Oct-18	20-Nov-18	-6
NB4500	NB77 - backfilling (Ch8390-8450)	0%	12	12	21-Nov-18	04-Dec-18	-6
NB4510	NB77 - NB production (Ch8390-8450)	0%	30	30	21-Nov-18	20-Dec-18	17
NB4570	NB77 backfilling complete	0%	0	0		05-Dec-18	-7
NB4620	NB77 Drainage Works	70.59%	35	119	10-May-18 A	02-Nov-18	16
Bridge Construction							
New Wo Hop Shek Pedstrian & Cycle Bridge							
TWSR-West/ FL Highway N/B Side Section							
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	29-Oct-18	19-Dec-18	107
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	20-Sep-18	24-Oct-18	155
WHS1280	Steel Staircase ready for erection (WHS-TWSR-W side)	0%	0	0		19-Dec-18	107
WHS1420	Ramp Finishes Work	51.61%	30	62	13-Jul-18 A	27-Oct-18	107
Slip Road Y Construction							
Drainage & Road Works							
TWSR-East FL Highway S/B Side Section							
RDZ41088	Gazettal period for Slip Road Y commissioning	0%	183	183	29-Nov-18	30-May-19	-7
Fanling Highway Construction							
Drainage & Road Works							
TWSR-West/ FL Highway N/B Side Section							
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	0%	20	20	20-Aug-18 A	15-Oct-18	36
RDZ41109	TTA Lane 4 (at NBZ2) with Chun Wo	0%	0	0		15-Oct-18	36
RDZ41110	Construct FH N/B Lane 1 (Ch8100-8600)	0%	18	18	06-Dec-18	28-Dec-18	-7
TWSR-East FL Highway S/B Side Section							
RDZ41133	Construct FH S/B Lane 3 (Ch8100-8470)	98.04%	3	153	27-Mar-18 A	22-Sep-18	125
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8470)	98.04%	3	153	27-Mar-18 A	22-Sep-18	125
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	0%	60	60	13-Dec-18	26-Feb-19	29
Other Works							
Retaining Wall W78							
TWSR-East FL Highway S/B Side Section							
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	26.67%	44	60	01-Sep-18 A	13-Nov-18	19
RWZ4.1030	Base slab & Wall (0-6m high)- RW78 (Ch.50-129)	18.82%	69	85	01-Sep-18 A	12-Dec-18	-6
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	0%	30	30	13-Dec-18	19-Jan-19	-6
Slope Works							
TWSR-East FL Highway S/B Side Section							
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Sep-18	08-Nov-18	136
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Sep-18	08-Nov-18	136
TCSS Works							
TCSS Pre-Construction Works							
TCSS0140	Revised & Re-submission TCSS shop Drawing	75.56%	11	45	11-Jul-18 A	04-Oct-18	21
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0	0		04-Oct-18	21
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	20-Sep-18	20-Sep-18	533
TCSS0230	Sign Gantry Factory production - G34 (Z4)	0%	30	30	05-Oct-18	09-Nov-18	21
TCSS0250	Sign Gantry Factory production - G36 (Z4)	0%	30	30	03-Dec-18	09-Jan-19	2
Civil Provision for TCSS Works							
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	0%	30	30	06-Dec-18	12-Jan-19	29
G34							
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	20-Sep-18	27-Oct-18	32
TCSS1780	TTA application & Approval - G34 (Z4)	62.96%	30	81	20-Jun-18 A	09-Nov-18	21
TCSS1790	Sign Gantry Erection - G34 (Z4)	0%	30	30	10-Nov-18	14-Dec-18	21
G35							
TCSS1540	Slow lane footing - G35 (NB77)	0%	0	0		04-Dec-18	120
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	21.05%	30	38	10-Aug-18 A	27-Oct-18	152
G36							
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0%	0	0		01-Dec-18	2
TCSS1820	TTA application & Approval - G36 (Z4)	0%	90	90	20-Sep-18	09-Jan-19	2
DS50							
TCSS1840	TTA application & Approval - DS50 (Z4)	0%	90	90	29-Oct-18	15-Feb-19	2
FADS8							
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	20-Sep-18	27-Oct-18	122
TCSS1860	TTA application & Approval - FADS8 (Z4)	0%	90	90	03-Dec-18	22-Mar-19	2
TCSS Hub Room							
TCSS1900	TCSS Hub Room Structure	0%	45	45	20-Sep-18	14-Nov-18	77
TCSS1910	TCSS Hub Room Finishes	0%	45	45	15-Nov-18	09-Jan-19	77



CONSTRUCTION PROGRAMME OF OCTOBER 2018

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
Contract Condition							
General							
Contract Condition							
Contract Condition							
KD19	KD-19 (1734d)- N5: Acheive: Rd widening & reconst. of Fanling	0%	0	0		12-Nov-18	57
ZONE 1 (Ch. 5640 to 5880)							
Noise Barrier Along Fanling Highway N/B							
Site Clearance & Demolition of Existing Structure							
General							
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0%	0	0		29-Nov-18	142
NB43B (Ch.5640-5880)-FH N/B Side							
Noise Barrier Works							
NB01216	NB43B-0 - Structure works of additional bay between tolo 2 & 3 -	65.38%	9	26	11-Sep-18 A	30-Oct-18	137
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	0%	26	26	31-Oct-18	29-Nov-18	137
NB01250	NB43B-1 - NB post & panel installation	0%	5	5	30-Nov-18	05-Dec-18	137
NB01300	NB43B-2 - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	172
NB01350	NB43B-3 - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	172
TWSR-West Construction							
Drainage & Road Works							
Ch 5640-5880							
RDZ10100	Z1: New Tai Wo Service Road West - Drainage & Road works near N/B	31.94%	130	191	07-Aug-18 A	26-Mar-19	47
Fanling Highway Construction							
Drainage & Road Works							
Ch 5640-5880							
RDZ11010	Z1 (Ch5640-5880): Fanling Highway N/B - D&R works (lane	0%	25	20	02-Oct-18 A	17-Nov-18	-12
RDZ11020	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane	0%	20	20	19-Nov-18	11-Dec-18	-12
RDZ11030	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 3)	0%	16	16	12-Dec-18	02-Jan-19	-12
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	0%	16	16	03-Jan-19	21-Jan-19	-12
Other Works							
Landscape Softwork							
Landscape Works							
Z1.LW.1000	Landscape soft work Zone1	0%	150	150	19-Dec-18	24-Jun-19	-12
ZONE 2 (Ch. 5880 to 6930)							
General							
DRM Proposal							
DRM Proposal							
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	64.32%	142	398	20-Nov-17 A	10-Apr-19	-77
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	90%	35	350	05-Oct-17 A	29-Nov-18	142
Noise Barrier Along Fanling Highway N/B							
NB43A (Ch.5880-6060)-FH N/B Side							
Noise Barrier Works							
NB001110	NB43A - ID1-2 backfilling	25%	12	16	15-Sep-18 A	02-Nov-18	53
NB001120	NB43A - ID1-2 NB production	0%	45	45	20-Sep-18 A	03-Dec-18	143
NB001130	NB43A - ID1-2 NB post & panel installation	0%	5	5	04-Dec-18	08-Dec-18	114
NB01525	NB43A-1 (0-61.5m) - Drainage Works	73.91%	24	92	03-Jul-18 A	16-Nov-18	29
NB01530	NB43A-1 - backfilling	0%	12	12	17-Nov-18	30-Nov-18	29
NB01550	NB43A-1 - NB post & panel installation	0%	5	5	01-Dec-18	06-Dec-18	116
NB01570	NB43A-2 - Footing & Wall Structure (bay 7-14)	91.56%	13	154	03-Apr-18 A	03-Nov-18	10
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	0%	24	24	08-Oct-18 A	16-Nov-18	5
NB01580	NB43A-2 - backfilling	0%	12	12	10-Dec-18	22-Dec-18	10
NB01590	NB43A-2 - NB production	61.84%	29	76	04-Aug-18 A	17-Nov-18	159
NB01600	NB43A-2 - NB post & panel installation	0%	5	5	17-Jan-19	22-Jan-19	79
NB03330	Bus Shelter footing at NB43A - VO86	0%	30	30	05-Nov-18	08-Dec-18	10
NB03340	Relocate Bus Shelter installation - VO86	0%	30	30	10-Dec-18	16-Jan-19	79
NB50 (Ch.6060-6130)-FH N/B Side							
Noise Barrier Works							
NB001160	NB50 -Sheet piling & Excavation	0%	15	15	20-Oct-18 A	06-Nov-18	-46
NB001170	NB50 -Footing & Wall Structure	0%	60	60	07-Nov-18	18-Jan-19	-46
NB001175	NB50 - Drainage Works	0%	24	24	19-Jan-19	18-Feb-19	-46
NB001190	NB50 -NB production	0%	45	45	19-Jan-19	04-Mar-19	52
NB50A (Ch.6130-6450)-FH N/B Side							
Noise Barrier Works							
NB001230	NB50A - ID2-2 Sheet piling & Excavation	0%	12	12	29-Oct-18*	10-Nov-18	-76
NB001240	NB50A - ID2-2 Footing & Wall Structure	0%	50	50	12-Nov-18	11-Jan-19	-76
NB001245	NB50A - ID2-2 Drainage Works	0%	18	18	12-Jan-19	01-Feb-19	-76
NB001260	NB50A - ID2-2 NB production	0%	45	45	12-Jan-19	25-Feb-19	59
NB01610	NB50A (0-108m) - Sheet piling & Excavation	0%	12	12	29-Oct-18*	10-Nov-18	-77
NB01620	NB50A(0-108m) - Footing & Wall Structure	0%	78	78	12-Nov-18	15-Feb-19	-77
NB01660	NB50A (132-228m) - Sheet piling & Excavation	0%	10	10	29-Oct-18*	08-Nov-18	-77
NB01670	NB50A (132-228m) - Footing & Wall Structure	0%	71	71	09-Nov-18	02-Feb-19	-77
NB60 (Ch.6450-6920)-FH N/B Side							



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Crit. Milestone

Project ID:WP Rev 06 (1810)

Layout: 3 Month Rolling Program

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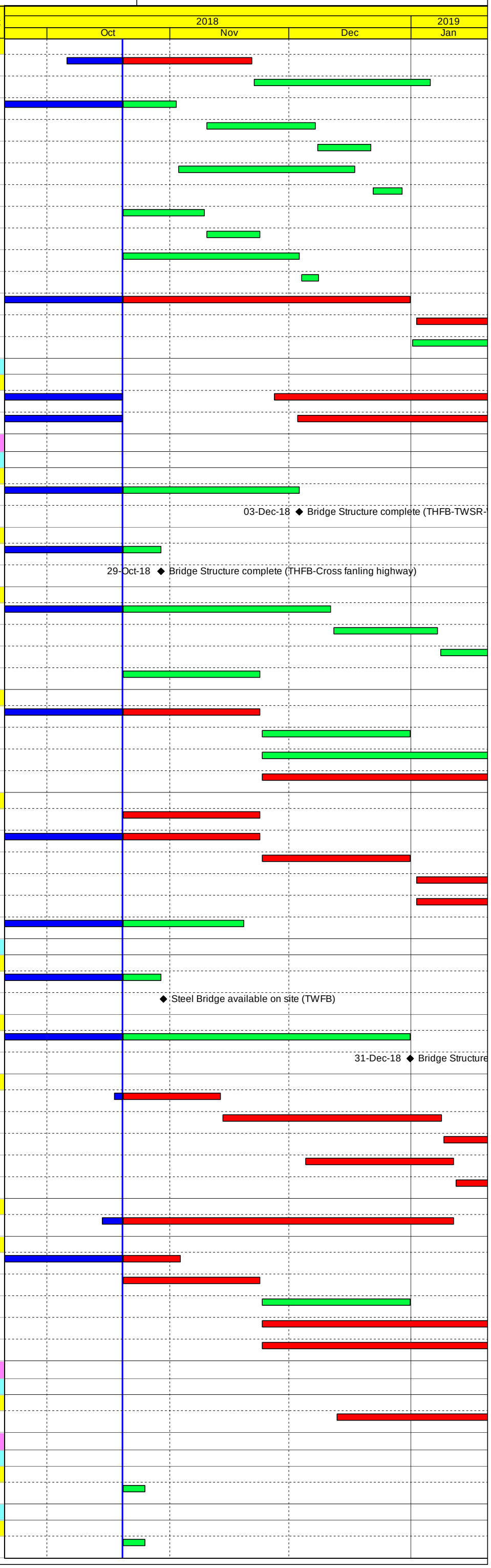
Contract No. HY/2012/06

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

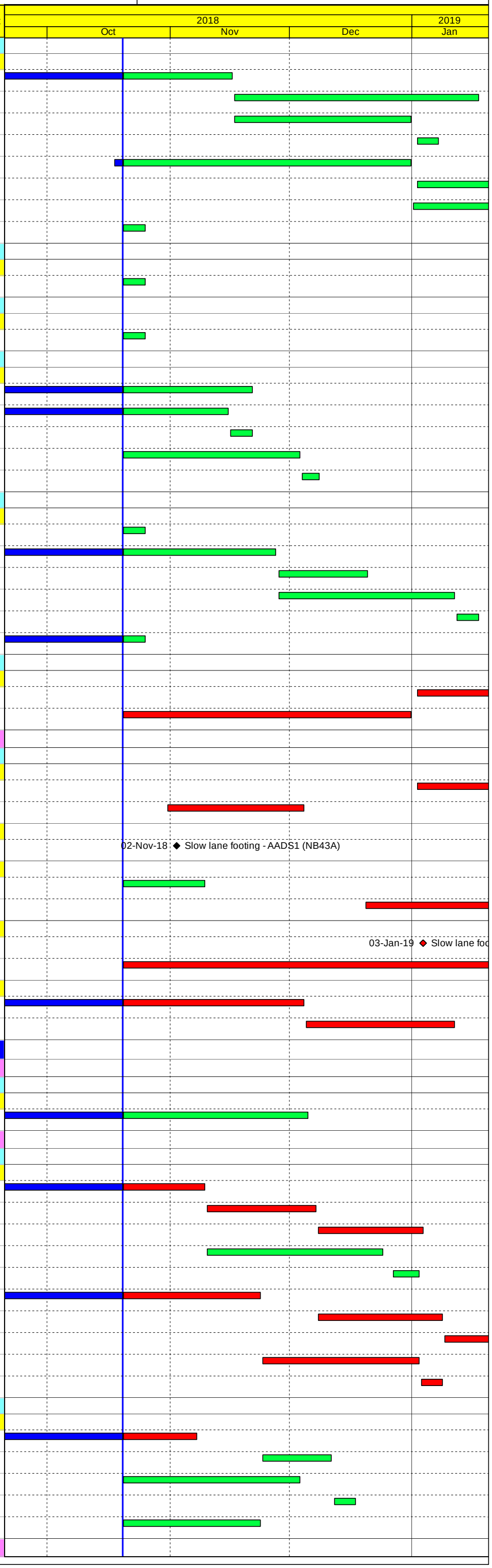
3 Month Rolling Program(20-Oct-18)

Date	Revision	C..	Ap...
28-Aug-15	WP Rev 2		
07-Apr-16	WP Rev 3		
08-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
28-Mar-18	WP Rev 6		

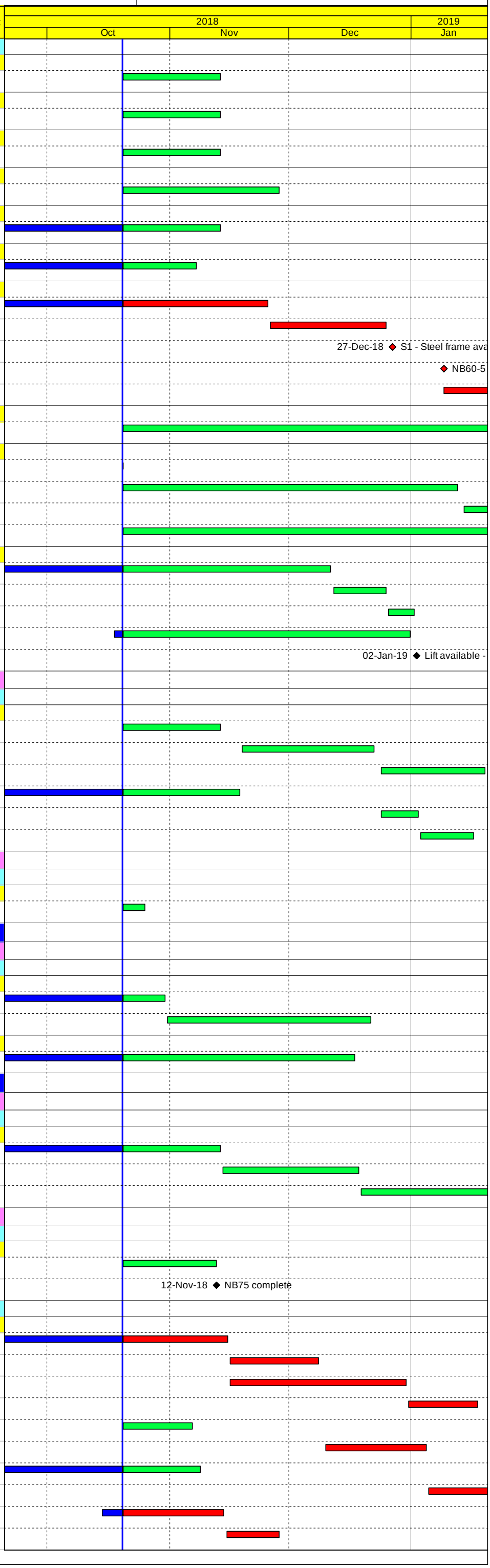
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
Noise Barrier Works							
NB01790	NB60-1 -(15-63m) Footing & Wall Structure	6.67%	28	30	06-Oct-18 A	21-Nov-18	1
NB01810	NB60-1 - NB production	0%	45	45	22-Nov-18	05-Jan-19	110
NB01860	NB60-2 - Footing & Wall Structure	90.98%	12	133	27-Apr-18 A	02-Nov-18	17
NB01865	NB60-2 (108-174m) - Drainage Works	0%	24	24	10-Nov-18	07-Dec-18	11
NB01870	NB60-2 - backfilling	0%	12	12	08-Dec-18	21-Dec-18	11
NB01880	NB60-2 - NB production	0%	45	45	03-Nov-18	17-Dec-18	129
NB01890	NB60-2 - NB post & panel installation	0%	5	5	22-Dec-18	29-Dec-18	98
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	0%	18	18	20-Oct-18	09-Nov-18	11
NB01940	NB60-ID3-2 - backfilling	0%	12	12	10-Nov-18	23-Nov-18	35
NB01950	NB60-ID3-2 - NB production	0%	45	45	20-Oct-18	03-Dec-18	143
NB01960	NB60-ID3-2 - NB post & panel installation	0%	5	5	04-Dec-18	08-Dec-18	114
NB02000	NB60-3 (192-300m) - Footing & Wall Structure	31.03%	60	87	20-Aug-18 A	31-Dec-18	-55
NB02005	NB60-3 (192-300m) - Drainage Works	0%	24	24	02-Jan-19	29-Jan-19	-55
NB02020	NB60-3 - NB production	0%	45	45	01-Jan-19	14-Feb-19	70
Underground Utility Works							
Underground Utility Works							
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	0%	120	120	15-Aug-18 A	26-Mar-19	-79
UU0110	Towngas duct laying and associated work before backfill in Zone 1 & 2	63.62%	120	330	20-Apr-18 A	01-Apr-19	-79
Bridge Construction							
New Tai Hang Footbridge							
TWSR-West/ FL Highway N/B Side Section							
THBF0620	Finishes Work	92.43%	38	502	27-Feb-17 A	03-Dec-18	119
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		03-Dec-18	119
Crossing Fanling Highway Section							
THBF0590	Finishes Work	90.7%	8	86	20-Jun-18 A	29-Oct-18	149
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0%	0	0		29-Oct-18	149
TWSR-East FL Highway S/B Side Section							
THBF0470	THAB1 - pile cap & abutment wall	92.28%	45	583	21-Nov-16 A	11-Dec-18	32
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	12-Dec-18	07-Jan-19	32
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	08-Jan-19	13-Feb-19	32
THBF0800	ABWF work	0%	30	30	20-Oct-18	23-Nov-18	127
Lift at TWSR-W Side							
L1550	Metal cover on RC platform	0%	30	30	20-Sep-18 A	23-Nov-18	7
L1555	Glass canopy on ground level	0%	30	30	24-Nov-18	31-Dec-18	97
L1560	Lift installation (NF115)	0%	70	70	24-Nov-18	19-Feb-19	24
L1590	E&M and Finishes work	0%	120	120	24-Nov-18	23-Apr-19	7
Lift at FLHY S/B							
L1380	Structural Laminated glass wall installation	0%	30	30	20-Oct-18	23-Nov-18	-17
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	20-Sep-18 A	23-Nov-18	-47
L1400	Roof cover for RC Platform	0%	30	30	24-Nov-18	31-Dec-18	-47
L1410	Lift installation (NF78)	0%	70	70	02-Jan-19	26-Mar-19	-47
L1440	E&M and Finishes work	0%	100	100	02-Jan-19	06-May-19	-43
L1450	CLP Power available (by CLP)	96.49%	31	882	21-Jun-16 A	19-Nov-18	70
New Tai Wo Footbridge							
General							
TWFB1090	Steel Bridge prefabrication (TWFB)	98.77%	8	650	15-Aug-16 A	29-Oct-18	59
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	30-Oct-18		59
TWSR-West/ FL Highway N/B Side Section							
TWFB1390	Finishes Work	86.11%	60	432	20-May-17 A	31-Dec-18	83
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		31-Dec-18	83
Crossing Fanling Highway Section							
TWFB1440	TWP2 - Pile cap	30%	21	30	18-Oct-18 A	13-Nov-18	1
TWFB1445	TWP2 - Pier and Pier Head	0%	45	45	14-Nov-18	08-Jan-19	1
TWFB1447	Erect TWFB acrossTWSR-W (P1 to P2)	0%	12	12	09-Jan-19	22-Jan-19	1
TWFB1448	Erect Temp tower for TWFB erection at Central Divier	0%	30	30	05-Dec-18	11-Jan-19	-2
TWFB1450	Erect TWFB across fanling highway	0%	12	12	12-Jan-19	25-Jan-19	-2
TWSR-East FL Highway S/B Side Section							
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	8%	69	75	15-Oct-18 A	11-Jan-19	-2
Lift at TWSR-W Side							
L1680	Structural Laminated glass wall installation	92.12%	13	165	17-Mar-18 A	03-Nov-18	10
L1700	Metal cover on RC platform	0%	30	30	20-Oct-18	23-Nov-18	-7
L1710	Glass canopy on ground level	0%	30	30	24-Nov-18	31-Dec-18	450
L1740	Lift installation	0%	70	70	24-Nov-18	19-Feb-19	6
L1770	E&M and Finishes work	0%	120	120	24-Nov-18	23-Apr-19	-7
Signalized Junction							
New Tai Hang Footbridge							
TWSR-West/ FL Highway N/B Side Section							
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	0%	90	90	13-Dec-18	12-Mar-19	-65
Noise Barrier Along Fanling Highway S/B							
NB51 (Ch.5935-6055)-FH S/B Side							
Noise Barrier Works							
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB03390	NB52 (bay 21) - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152



Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02450	NB53 (0-100m) - Footing & Wall Structure	69.7%	24	79	13-Aug-18 A	16-Nov-18	83
NB02460	NB53 (0-100m)- backfilling	0%	50	50	17-Nov-18	17-Jan-19	83
NB02470	NB53 (0-100m) - NB production	0%	45	45	17-Nov-18	31-Dec-18	115
NB02480	NB53 (0-100m) - NB post & panel installation	0%	5	5	02-Jan-19	07-Jan-19	92
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	0%	60	60	18-Oct-18 A	31-Dec-18	42
NB02530	NB53 ID2-3 (100-125m) - backfilling	0%	50	50	02-Jan-19	02-Mar-19	42
NB02540	NB53 ID2-3 (100-125m) - NB production	0%	45	45	01-Jan-19	14-Feb-19	70
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02670	NB55 - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02740	NB56 - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02790	NB61 (0-50m)- backfilling	87.56%	28	225	20-Jan-18 A	21-Nov-18	129
NB02800	NB61 (0-50m) - NB production	89.49%	27	257	20-Jan-18 A	15-Nov-18	161
NB02810	NB61 (0-50m) - NB post & panel installation	0%	5	5	16-Nov-18	21-Nov-18	129
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Oct-18	03-Dec-18	143
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Dec-18	08-Dec-18	114
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	96.94%	33	1077	01-Apr-15 A	27-Nov-18	84
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	28-Nov-18	20-Dec-18	99
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	28-Nov-18	11-Jan-19	104
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	12-Jan-19	17-Jan-19	83
NB03050	NB61A (75-190m) - NB post & panel installation	95.83%	5	120	05-May-18 A	25-Oct-18	152
Box Culvert ID3 Works							
VO58 Extension of ID3							
ID30130	Backfill	0%	20	20	02-Jan-19	24-Jan-19	-13
ID30140	Wing Wall Construction	0%	60	60	20-Oct-18*	31-Dec-18	-13
Other Works							
TCSS Works							
TCSS Pre-Construction Works							
TCSS0200	Sign Gantry Factory production - FADS1	0%	30	30	02-Jan-19	07-Feb-19	-53
TCSS0210	Sign Gantry Factory production - G55	0%	30	30	31-Oct-18	04-Dec-18	-32
AADS1							
TCSS1400	Slow lane footing - AADS1 (NB43A)	0%	0	0		02-Nov-18	85
ADS1							
TCSS1970	Back filling & reinstatemetn road work (2m)	0%	18	18	20-Oct-18	09-Nov-18	49
TCSS1980	TTA application & Approval - ADS1	0%	90	90	20-Dec-18	10-Apr-19	-75
FADS1							
TCSS1460	Slow lane footing - FADS1 (NB60)	0%	0	0		03-Jan-19	-25
TCSS2050	TTA application & Approval - FADS1	0%	90	90	20-Oct-18	07-Feb-19	-53
G55							
TCSS1740	TTA application & Approval - G55	56.67%	39	90	20-Aug-18 A	04-Dec-18	-32
TCSS1750	Sign Gantry Erection - G55	0%	30	30	05-Dec-18	11-Jan-19	-32
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)							
Noise Barrier Along TWSR-West and Laying New Utilities							
NB64 & NB64A (Ch.6860-6920)-TWSR West Side							
Noise Barrier Works							
NB003350	Bus Shelter footing & shelter near NB64 - VO86	71.83%	40	142	21-May-18 A	05-Dec-18	117
Noise Barrier Along Fanling Highway N/B							
NB60 (Ch.6450-6920)-FH N/B Side							
Noise Barrier Works							
NB02060	NB60-4 - Footing & Wall Structure	76%	18	75	16-Jul-18 A	09-Nov-18	-25
NB02065	NB60-4 (300-408m) - Drainage Works	0%	24	24	10-Nov-18	07-Dec-18	-25
NB02070	NB60-4 - backfilling	0%	20	20	08-Dec-18	03-Jan-19	-25
NB02080	NB60-4 - NB production	0%	45	45	10-Nov-18	24-Dec-18	122
NB02082	NB60-4 - NB post & panel installation	0%	5	5	27-Dec-18	02-Jan-19	96
NB02120	NB60-5 - Footing & Wall Structure	18.92%	30	37	12-Sep-18 A	23-Nov-18	-29
NB02125	NB60-5 (408-468m) - Drainage Works	0%	24	24	08-Dec-18	08-Jan-19	-13
NB02130	NB60-5 - backfilling	0%	12	12	09-Jan-19	22-Jan-19	-13
NB02140	NB60-5 - NB production	0%	40	40	24-Nov-18	02-Jan-19	-33
NB02142	NB60-5 - NB post & panel installation	0%	5	5	03-Jan-19	08-Jan-19	-25
NB66 (Ch.6920-6930)-FH N/B Side							
Noise Barrier Works							
NB02165	NB66 - Drainage Works	87.6%	16	129	08-May-18 A	07-Nov-18	-23
NB02170	NB66- backfilling	0%	15	15	24-Nov-18	11-Dec-18	20
NB02180	NB66 - NB production	0%	45	45	20-Oct-18	03-Dec-18	143
NB02190	NB66 - NB post & panel installation	0%	5	5	12-Dec-18	17-Dec-18	107
NB03320	Bus Shelter footing - VO86	0%	30	30	20-Oct-18	23-Nov-18	20
Bridge Construction							



Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
Kau Lung Hang Vehicular Bridge							
KLH Bridge - West Ramp							
KLH.1290	West Ramp - Planting	0%	21	21	20-Oct-18	13-Nov-18	136
KLH Bridge - Deck 1							
KLH.3430	Deck 1 - Planting	0%	21	21	20-Oct-18	13-Nov-18	136
KLH Bridge - Deck 3							
KLH.3500	Deck 3 - Planting	0%	21	21	20-Oct-18	13-Nov-18	168
KLH Bridge - East Ramp							
KLH.3590	East Ramp - Planting	0%	34	34	20-Oct-18	28-Nov-18	476
KLH Bridge - Ramp R1							
Z2.KLH.3610	Ramp R1 - Steel roof	95.89%	21	511	19-Jan-17 A	13-Nov-18	136
KLH Bridge - Ramp R2							
Z2.KLH.1550	Ramp R2 - Steel roof	96.57%	16	467	14-Mar-17 A	07-Nov-18	141
KLH Bridge - Staircase S1							
Z2.KLH.1462	S1 - Steel work ordering	38.33%	37	60	28-Aug-18 A	25-Nov-18	-19
Z2.KLH.1464	S1 - Steel work prefabrication	0%	30	30	26-Nov-18	25-Dec-18	-19
Z2.KLH.1466	S1 - Steel frame available on site	0%	0	0		27-Dec-18	-15
Z2.KLH.1470	NB60-5 post installation completed for S1	0%	0	0	09-Jan-19		-25
Z2.KLH.1480	S1- Deck Steel Frame erection	0%	30	30	09-Jan-19	14-Feb-19	-25
Bridge Road Work							
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Oct-18	14-Mar-19	37
Lift at TWSR-W Side							
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Oct-18	20-Oct-18	68
L01100	Lift installation	0%	70	70	20-Oct-18	12-Jan-19	68
L01110	Lift T&C	0%	14	14	14-Jan-19	29-Jan-19	68
L01130	Finishes work	0%	88	88	20-Oct-18	02-Feb-19	69
Lift at FLHY S/B							
L01260	Lift installation	13.46%	45	52	12-Sep-18 A	11-Dec-18	98
L01270	Lift T&C	0%	14	14	12-Dec-18	25-Dec-18	121
L01280	EMSD inspection & approval (Assume 7 days is required instead	0%	7	7	26-Dec-18	01-Jan-19	121
L01290	Finishes work	0%	60	60	18-Oct-18 A	31-Dec-18	97
L01310	Lift available - NF117-Lift 2	0%	0	0		02-Jan-19	97
Signalized Junction							
Kau Lung Hang Vehicular Bridge							
KLH Bridge - West Ramp							
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Oct-18*	13-Nov-18	130
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	0%	30	30	19-Nov-18	22-Dec-18	60
Z2.KLH.1052	Installation of Traffic Signal Poles at TWSR-W S/B (KLHVB)	0%	21	21	24-Dec-18	19-Jan-19	60
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	80.39%	30	153	20-May-18 A	18-Nov-18	73
Z2.KLH.1072	Ducting & cable draw inspection by EMSD (KLHVB)	0%	6	6	24-Dec-18	02-Jan-19	78
Z2.KLH.1082	Ducting & cable draw rectification (KLHVB)	0%	12	12	03-Jan-19	16-Jan-19	78
Noise Barrier Along Fanling Highway S/B							
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)							
Noise Barrier Works							
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	20-Oct-18	25-Oct-18	152
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)							
Bridge Construction							
New Ho Ka Yuen Footbridge							
TWSR-West/ FL Highway N/B Side Section							
HKY1440	Remaining Finishes works of HKYFB	98.35%	9	547	21-Nov-16 A	30-Oct-18	135
HKY1520	VO11 - slope improvement work	0%	45	45	31-Oct-18	21-Dec-18	135
TWSR-East FL Highway S/B Side Section							
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	91.95%	50	621	13-Oct-16 A	17-Dec-18	139
ZONE 4 (Ch. 7925 to 8700)							
Noise Barrier Along TWSR-West and Laying New Utilities							
Underground Utility Works							
DN450 DI Watermain "A" (Ch 1989-2529)							
DI0180	DN450 DI watermain laying (400-450m)	85.81%	21	148	20-Apr-18 A	13-Nov-18	58
DI0190	DN450 DI watermain laying (450-500m)	0%	30	30	14-Nov-18	18-Dec-18	58
DI0200	DN450 DI watermain laying (500-540m)	0%	30	30	19-Dec-18	25-Jan-19	58
Noise Barrier Along Fanling Highway N/B							
NB75 (Ch.7930-8090)-FH N/B Side							
Noise Barrier Works							
NB4275	NB75 - NB panel installation	0%	20	20	20-Oct-18	12-Nov-18	49
NB4280	NB75 complete	0%	0	0		12-Nov-18	49
NB77 (Ch.8090-8450)-FH N/B Side							
Noise Barrier Works							
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	93.82%	23	372	20-Jul-17 A	15-Nov-18	-24
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	16-Nov-18	08-Dec-18	-24
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	16-Nov-18	30-Dec-18	-9
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	0%	15	15	31-Dec-18	17-Jan-19	-5
NB4400	NB77 - NB post & panel installation (Ch8190-8290)	0%	15	15	20-Oct-18	06-Nov-18	54
NB4440	NB77 - backfilling (Ch8290-8390)	0%	20	20	10-Dec-18	04-Jan-19	-24
NB4450	NB77 - NB production (Ch8290-8390)	87.5%	20	160	03-May-18 A	08-Nov-18	43
NB4460	NB77 - NB post & panel installation (Ch8290-8390)	0%	15	15	05-Jan-19	22-Jan-19	-9
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	45%	22	40	15-Oct-18 A	14-Nov-18	5
NB4500	NB77 - backfilling (Ch8390-8450)	0%	12	12	15-Nov-18	28-Nov-18	5



Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float
NB4510	NB77 - NB production (Ch8390-8450)	0%	30	30	15-Nov-18	14-Dec-18	23
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	0%	5	5	15-Dec-18	20-Dec-18	16
NB4570	NB77 backfilling complete	0%	0	0		04-Jan-19	-24
Bridge Construction							
New Wo Hop Shek Pedestrian & Cycle Bridge							
TWSR-West/ FL Highway N/B Side Section							
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	24-Nov-18	18-Jan-19	84
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	20-Oct-18	20-Nov-18	132
WHS1280	Steel Staircase ready for erection (WHS-TWSR-W side)	0%	0	0		18-Jan-19	84
WHS1290	Erect Stairecase (WHS-TWSR-W side)	0%	30	30	19-Jan-19	25-Feb-19	84
WHS1420	Ramp Finishes Work	66.29%	30	89	13-Jul-18 A	23-Nov-18	84
Slip Road Y Construction							
Drainage & Road Works							
TWSR-East FL Highway S/B Side Section							
RDZ41088	Gazettal period for Slip Road Y commissioning	0%	183	183	17-Dec-18	17-Jun-19	-25
Fanling Highway Construction							
Drainage & Road Works							
TWSR-West/ FL Highway N/B Side Section							
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	57.45%	20	47	20-Aug-18 A	12-Nov-18	19
RDZ41109	TTA Lane 4 (at NBZ2) with Chun Wo	0%	0	0		12-Nov-18	19
RDZ41110	Construct FH N/B Lane 1 (Ch8100-8600)	0%	18	18	05-Jan-19	25-Jan-19	-24
TWSR-East FL Highway S/B Side Section							
RDZ41133	Construct FH S/B Lane 3 (Ch8100-8470)	97.96%	3	147	27-Mar-18 A	23-Oct-18	108
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8470)	97.96%	3	147	27-Mar-18 A	23-Oct-18	108
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	0%	60	60	02-Jan-19	14-Mar-19	15
Other Works							
Retaining Wall W78							
TWSR-East FL Highway S/B Side Section							
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	26.67%	44	60	01-Sep-18 A	10-Dec-18	-4
RWZ4.1030	Base slab & Wall (0-6m high)-RW78 (Ch.50-129)	29.41%	60	85	01-Sep-18 A	31-Dec-18	-20
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	0%	30	30	02-Jan-19	07-Feb-19	-20
Slope Works							
TWSR-East FL Highway S/B Side Section							
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Oct-18	05-Dec-18	113
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Oct-18	05-Dec-18	113
TCSS Works							
TCSS Pre-Construction Works							
TCSS0140	Revised & Re-submission TCSS shop Drawing	84.72%	11	72	11-Jul-18 A	01-Nov-18	-2
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0	0		01-Nov-18	-2
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0%	0	0	20-Oct-18	20-Oct-18	510
TCSS0230	Sign Gantry Factory production - G34 (Z4)	0%	30	30	02-Nov-18	06-Dec-18	-2
TCSS0250	Sign Gantry Factory production - G36 (Z4)	0%	30	30	07-Dec-18	14-Jan-19	-2
TCSS0260	Sign Gantry Factory production - DS50 (Z4)	0%	30	30	15-Jan-19	20-Feb-19	-2
Civil Provision for TCSS Works							
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	0%	30	30	05-Jan-19	11-Feb-19	6
G34							
TCSS1780	TTA application & Approval - G34 (Z4)	79.83%	24	119	20-Jun-18 A	06-Dec-18	-2
TCSS1790	Sign Gantry Erection - G34 (Z4)	0%	30	30	07-Dec-18	14-Jan-19	-2
G35							
TCSS1800	TTA application & Approval - G35 (Z4)	0%	90	90	15-Jan-19	07-May-19	-2
G36							
TCSS1570	latest date for Slow lane footing available - G36 (NB by other)	0%	0	0		06-Dec-18	-2
TCSS1820	TTA application & Approval - G36 (Z4)	25.56%	67	90	20-Sep-18 A	14-Jan-19	-2
TCSS1830	Sign Gantry Erection - G36 (Z4)	0%	30	30	15-Jan-19	20-Feb-19	-2
DS50							
TCSS1840	TTA application & Approval - DS50 (Z4)	0%	90	90	02-Nov-18	20-Feb-19	-2
FADS8							
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	20-Oct-18	23-Nov-18	99
TCSS1860	TTA application & Approval - FADS8 (Z4)	0%	90	90	07-Dec-18	27-Mar-19	-2
TCSS Hub Room							
TCSS1900	TCSS Hub Room Structure	0%	45	45	20-Oct-18	11-Dec-18	54
TCSS1910	TCSS Hub Room Finishes	0%	45	45	12-Dec-18	07-Feb-19	54

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		
			Aug 18	Sep 18	Oct 18
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V
	All stockpiles of excavated materials or spoil of more than $50m^3$ shall be enclosed, covered or dampened during dry or windy conditions.		@	@	@
	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
	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
	Materials shall be dampened, if necessary, before transportation.		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
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V	@	@

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 18	Sep 18	Oct 18
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V
	Reduce the number of equipment and their percentage on-time.		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*
	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*
	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*
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V*	V*	V*
	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*
	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*
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V*	V*	V*
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		V*	V*	V*

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 18	Sep 18	Oct 18
Water quality during construction	Demolition and reconstruction of bridges - 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
	Road Widening Works, Earthworks and Culvert Extension Works - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable 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.		@	@	@

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 18	Sep 18	Oct 18
Waste management during construction	General Waste - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards.	During construction	V	V	V
	Vegetation from site clearance - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.		V	V	V
	Demolition Wastes - Segregation of materials to facilitate disposal. - Appropriate stockpile management.		V	V	V
	Excavated Materials - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated.		V	V	V
	Construction Wastes - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.		V	V	V
	Bentonite Slurries - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.		#	#	#

	Chemical Wastes - 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.		V	V	@
	Municipal Wastes - 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

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 18	Sep 18	Oct 18
Ecology during construction	Accurate Delineation of Works Area - 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
	Vegetation Clearance - 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
	Dust generation 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: - 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.		@	@	@
	Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: - 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).		@	@	@

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 18	Sep 18	Oct 18
Landscape & Visual during construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V
	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
	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
	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.		#	#	#
	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.		#	#	#

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/m3	500 μg/m3

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

Location	Action Level	Limit Level
AM2	200.7 μg/m3	260 μg/m3

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

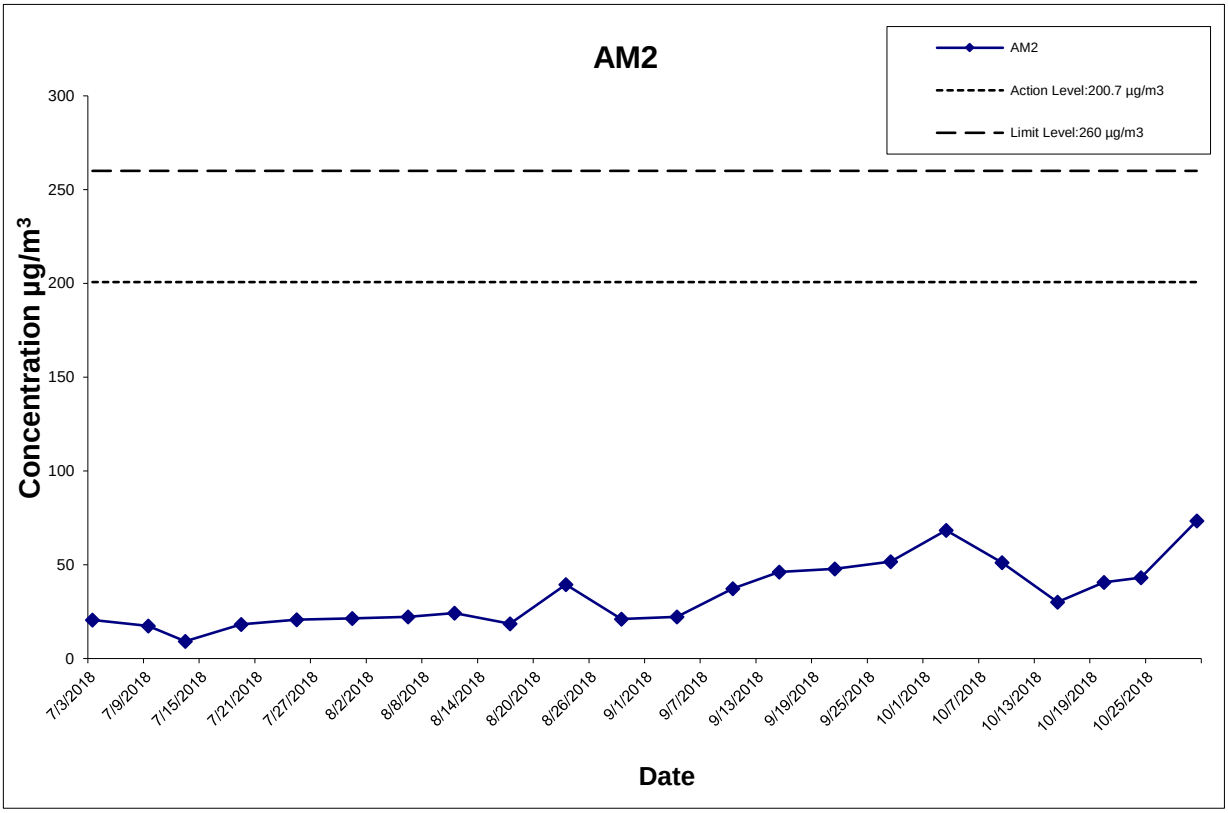
APPENDIX E
IMPACT AIR QUALITY MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

Impact Air Quality Monitoring Results

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

Date	Weather Condition	Air Temp. (^{o}C)	Atmospheric Pressure(hPa)	Flow Rate (m^3/min.) Initial	Flow Rate (m^3/min.) Final	Av. flow (m^3/min)	Total vol. (m^3)	Filter Weight (g) Initial	Filter Weight (g) Final	Particulate weight(g)	Elapse Time Initial	Elapse Time Final	Sampling Time(hrs.)	Conc. ($\mu g/m^3$)	Actino Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
3-Jul-18	Fine	29.7	1002.5	1.324	1.324	1.324	1906.6	2.5630	2.6020	0.0390	10482.02	10506.02	24.00	20.5	200.7	260
9-Jul-18	Rainy	28.2	1005.7	1.324	1.324	1.324	1906.6	2.6762	2.7094	0.0332	10506.02	10530.02	24.00	17.4	200.7	260
13-Jul-18	Rainy	26.7	1003.9	1.324	1.324	1.324	1906.6	2.6764	2.6939	0.0175	10530.02	10554.02	24.00	9.2	200.7	260
19-Jul-18	Rainy	27.9	1004.6	1.324	1.324	1.324	1906.6	2.6427	2.6774	0.0347	10554.02	10578.02	24.00	18.2	200.7	260
25-Jul-18	Fine	29.4	1005.8	1.324	1.324	1.324	1906.6	2.6561	2.6956	0.0395	10578.02	10602.02	24.00	20.7	200.7	260
31-Jul-18	Rainy	30.2	1005.5	1.324	1.324	1.324	1906.6	2.6356	2.6764	0.0408	10602.02	10626.02	24.00	21.4	200.7	260
6-Aug-18	Cloudy	30.2	1005.4	1.324	1.324	1.324	1906.6	2.6707	2.7133	0.0426	10626.02	10650.02	24.00	22.3	200.7	260
11-Aug-18	Rainy	27.0	998.7	1.324	1.324	1.324	1906.6	2.6242	2.6706	0.0464	10650.02	10674.02	24.00	24.3	200.7	260
17-Aug-18	Rainy	27.2	1000.2	1.324	1.324	1.324	1906.6	2.6755	2.7110	0.0355	10674.02	10698.02	24.00	18.6	200.7	260
23-Aug-18	Rainy	27.7	1001.7	1.324	1.324	1.324	1906.6	2.6326	2.7080	0.0754	10698.02	10722.02	24.00	39.5	200.7	260
29-Aug-18	Rainy	27.4	1002.5	1.324	1.324	1.324	1906.6	2.6521	2.6924	0.0403	10722.02	10746.02	24.00	21.1	200.7	260
4-Sep-18	Fine	29.1	1005.7	1.324	1.324	1.324	1906.6	2.6206	2.6629	0.0423	10746.02	10770.02	24.00	22.2	200.7	260
10-Sep-18	Sunny	26.1	1012.5	1.324	1.324	1.324	1906.6	2.6729	2.7440	0.0711	10770.02	10794.02	24.00	37.3	200.7	260
15-Sep-18	Rainy	30.7	1002.8	1.324	1.324	1.324	1906.6	2.6734	2.7615	0.0881	10794.02	10818.02	24.00	46.2	200.7	260
21-Sep-18	Sunny	29.2	1011.6	1.324	1.324	1.324	1906.6	2.6708	2.7622	0.0914	10818.02	10842.02	24.00	47.9	200.7	260
27-Sep-18	Rainy	27.3	1009.8	1.324	1.324	1.324	1906.6	2.6686	2.7670	0.0984	10842.02	10866.02	24.00	51.6	200.7	260
3-Oct-18	Sunny	26.9	1015.3	1.324	1.324	1.324	1906.6	2.6345	2.7650	0.1305	10866.02	10890.02	24.00	68.4	200.7	260
9-Oct-18	Sunny	26.5	1013.7	1.324	1.324	1.324	1906.6	2.6330	2.7305	0.0975	10890.02	10914.02	24.00	51.1	200.7	260
15-Oct-18	Cloudy	25.6	1014.6	1.324	1.324	1.324	1906.6	2.6903	2.7476	0.0573	10914.02	10938.02	24.00	30.1	200.7	260
20-Oct-18	Cloudy	24.0	1018.6	1.324	1.324	1.324	1906.6	2.6661	2.7436	0.0775	10938.02	10962.02	24.00	40.6	200.7	260
24-Oct-18	Rainy	25.2	1016.8	1.324	1.324	1.324	1906.6	2.6769	2.7592	0.0823	10962.02	10986.02	24.00	43.2	200.7	260
30-Oct-18	Fine	25.7	1014.8	1.324	1.324	1.324	1906.6	2.6823	2.8222	0.1399	10986.02	11010.02	24.00	73.4	200.7	260

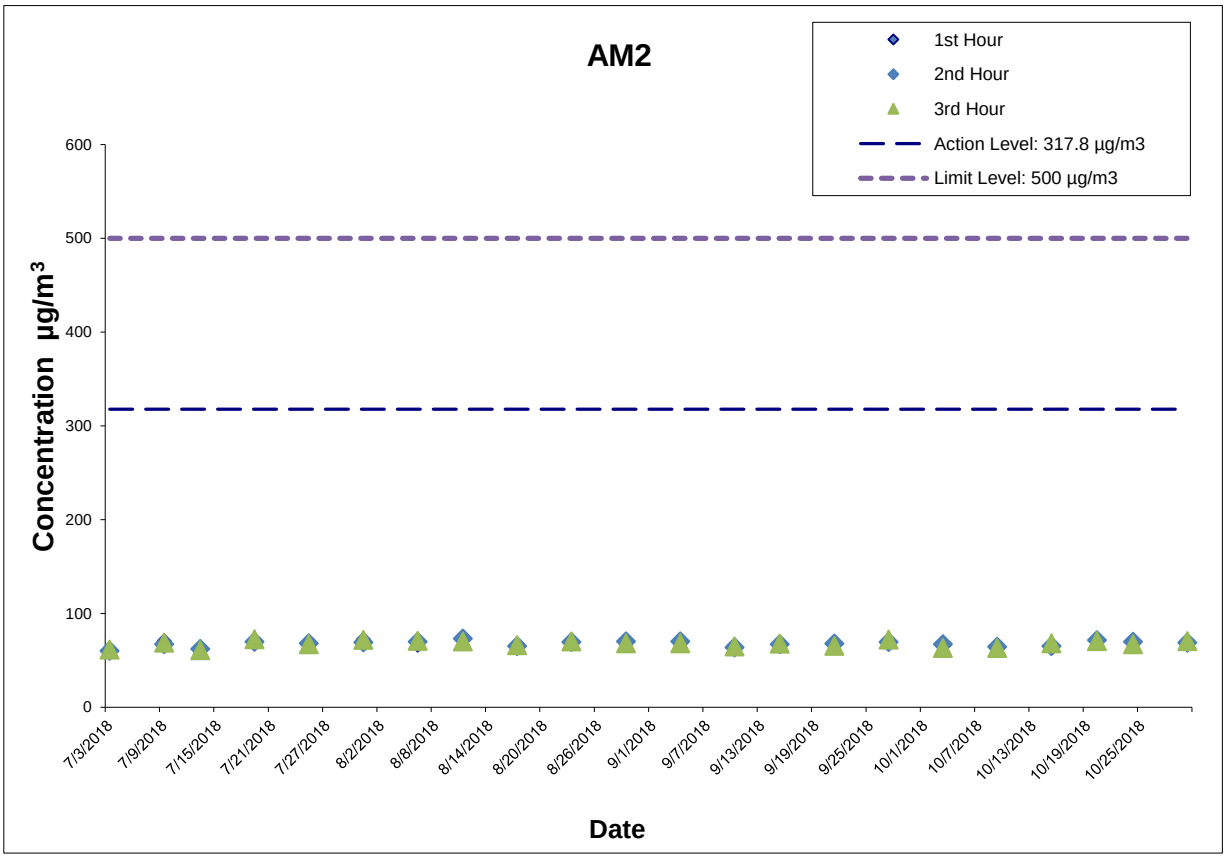
Average for the reporting quarter (Aug 18 to Oct 18)	38.8
Minimum for the reporting quarter (Aug 18 to Oct 18)	18.6
Maximum for the reporting quarter (Aug 18 to Oct 18)	73.4



Impact Air Quality Monitoring Results

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

Date	Start Time (hh:mm)	1st Hour Conc. ($\mu g/m^3$)	2nd Hour Conc. ($\mu g/m^3$)	3rd Hour Conc. ($\mu g/m^3$)
3-Jul-18	13:30	58.9	60.4	61.6
9-Jul-18	9:45	70.6	67.2	68.8
13-Jul-18	13:20	61.7	62.2	60.9
19-Jul-18	11:35	67.7	69.8	72.6
25-Jul-18	11:25	67.5	68.1	67.2
31-Jul-18	11:35	72.3	69.2	71.8
6-Aug-18	11:25	66.2	69.8	71.1
11-Aug-18	10:35	72.5	73.3	70.1
17-Aug-18	14:02	67.3	65.4	66.1
23-Aug-18	13:50	68.2	69.7	70.1
29-Aug-18	11:20	68.6	70.3	68.1
4-Sep-18	13:50	69.9	70.2	68.1
10-Sep-18	13:30	66.1	63.9	64.8
15-Sep-18	10:30	65.4	67.2	67.8
21-Sep-18	13:55	66.7	68.0	65.7
27-Sep-18	11:45	71.6	69.7	72.4
3-Oct-18	11:25	65.9	67.1	63.1
9-Oct-18	11:05	62.9	64.5	63.3
15-Oct-18	10:55	67.2	65.3	68.2
20-Oct-18	13:10	71.1	71.5	70.7
24-Oct-18	13:30	68.8	69.8	67.2
30-Oct-18	13:15	68.0	68.9	70.7
Average for the reporting quarter (Aug 18 to Oct 18)				68.1
Minimum for the reporting quarter (Aug 18 to Oct 18)				62.9
Maximum for the reporting quarter (Aug 18 to Oct 18)				73.3



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METEROLOGICAL DATA

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Daily Extract of Meteorological Observations , August 2018 - Tai Po

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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	1005.0	33.7	29.8	27.6	25.2	77	***	***	***
02	1004.2	32.7#	29.7	26.0#	25.5	79	***	***	***
03	1003.9	31.8	29.4	27.7	25.3	79	***	***	***
04	1005.2	34.0	29.0	26.0	25.8	84	***	***	***
05	1006.4	32.1	28.8	26.9	25.8	84	***	***	***
06	1006.0	32.8	29.6	26.8	25.9	81	***	***	***
07	1005.1	32.9	29.3	27.0	25.3	80	***	***	***
08	1005.0	32.8#	29.5	25.7#	25.4	79	***	***	***
09	1004.1	31.9#	29.9	28.3#	25.4	77	***	***	***
10	1002.4	29.2	27.3	25.7	25.7	91	***	***	***
11	999.6	28.1#	27.1	25.7#	25.6	92	***	***	***
12	997.4	27.9#	26.6	25.2#	25.5	94	***	***	***
13	997.1	30.9	28.6	26.5	25.6	84	***	***	***
14	997.2	28.7#	27.2	26.1#	25.8	92	***	***	***
15	1000.0	29.9#	27.6	26.1#	25.5	88	***	***	***
16	1000.9	28.6	27.3	26.0	25.7	91	***	***	***
17	1000.9	28.9	26.9	25.1	25.3	91	***	***	***
18	1002.0	30.0	27.9	26.0	25.5	87	***	***	***
19	1003.1	30.8	28.0	25.9	25.6	87	***	***	***
20	1002.9	30.7	27.9	26.1	25.8	88	***	***	***
21	1000.8	31.4	28.4	26.0	25.9	86	***	***	***
22	1000.8	33.0#	28.3	24.5#	25.2	84	***	***	***
23	1002.3	32.3#	27.8	24.4#	25.2	86	***	***	***
24	1002.2	33.1	29.0	24.9	25.5	82	***	***	***
25	1000.4	34.6	30.6	28.4	23.8	68	***	***	***
26	1000.2	31.6#	27.9	25.2#	25.0	85	***	***	***
27	1001.9	29.6#	26.7	24.9#	24.7	89	***	***	***
28	1003.0	28.0	25.9	25.1	24.9	94	***	***	***
29	1003.4	27.6#	25.7	24.6#	25.1	96	***	***	***
30	1006.2	29.0#	27.1	25.9#	25.3	90	***	***	***
31	1010.0	28.8#	27.1	26.3#	25.4	91	***	***	***

*** unavailable

data incomplete

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

Last revision date: <17 May 2017>

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

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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	***	33.4	29.5	27.0	***	***	3.5	280	9.0
02	***	32.6#	29.5	26.6#	***	***	0.5	270	11.9
03	***	33.3	29.1	27.5	***	***	2.0	270	9.0
04	***	33.0	29.1	26.3	***	***	4.5	280	4.8
05	***	34.2	30.0	27.4	***	***	0.0	130	4.8
06	***	34.0	30.2	27.8	***	***	0.0	150	5.3
07	***	34.4	30.0	27.5	***	***	0.0	060	5.4
08	***	33.3#	29.5	25.8#	***	***	4.0	090	15.8
09	***	32.6#	29.3	26.5#	***	***	2.5	090	25.0
10	***	30.1	26.8	25.1	***	***	40.0	080	17.2
11	***	27.3	26.6	25.5	***	***	60.0	080	22.5
12	***	27.3	26.3	25.2	***	***	65.5	060	18.1
13	***	31.9#	28.4	26.4#	***	***	0.0	090	19.9
14	***	29.4#	27.0	25.9#	***	***	20.0	050	24.7
15	***	29.0	27.2	25.8	***	***	12.0	050	11.1
16	***	28.3	26.6	25.4	***	***	12.0	070	11.0
17	***	28.6	26.8	25.1	***	***	19.0	250	4.4
18	***	31.3#	28.0	26.0#	***	***	4.5	220	4.1
19	***	30.6#	27.9	25.8#	***	***	18.5	230	7.1
20	***	30.8	27.9	25.9	***	***	1.0	050	4.3
21	***	33.5#	28.5	25.8#	***	***	2.0	140	4.0
22	***	32.4#	27.8	23.2#	***	***	82.0	280	6.9
23	***	32.2	27.4	24.1	***	***	9.5	260	10.5
24	***	33.5	29.1	24.5	***	***	0.0	270	6.6
25	***	34.6	30.8	28.4	***	***	0.0	260	11.3
26	***	32.2#	28.5	26.1#	***	***	0.0	130	6.4
27	***	30.3#	26.7	24.5#	***	***	68.0	270	9.2
28	***	29.3#	25.8	24.3#	***	***	86.5	260	6.9
29	***	28.5	25.8	24.3	***	***	195.5	040	7.9
30	***	27.3#	26.2	25.5#	***	***	45.5	270	9.0
31	***	28.5	26.4	25.6	***	***	42.5	280	9.4

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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 , September 2018

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Day	Hong Kong Observatory							
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)				
01	1009.9	27.9	26.3	25.0	25.2	93	89	32.0
02	1007.9	29.9	26.8	24.6	24.5	88	76	9.8
03	1006.9	30.5	27.7	25.6	24.3	82	70	0.3
04	1005.7	32.0	29.1	27.0	25.3	80	40	0.0
05	1004.9	33.1	29.8	27.9	25.8	79	54	0.1
06	1005.4	31.8	29.6	28.2	26.1	82	77	0.0
07	1006.3	31.2	29.4	28.0	25.6	80	76	Trace
08	1008.6	29.6	27.4	25.6	23.8	81	86	24.6
09	1011.5	30.5	27.1	24.6	22.4	76	86	16.7
10	1012.5	28.3	26.1	24.3	22.4	80	83	0.2
11	1009.3	32.7	28.2	25.2	20.6	65	46	0.0
12	1007.7	28.7	27.8	26.9	23.6	78	87	Trace
13	1009.4	30.3	27.7	26.3	24.7	84	69	2.5
14	1009.2	31.7	28.8	26.7	24.6	78	72	0.0
15	1002.8	35.1	30.7	26.8	23.1	65	59	Trace
16	990.9	31.8	26.4	23.6	23.6	86	97	167.5
17	1008.6	30.4	27.5	25.8	25.4	89	93	12.0
18	1013.7	31.8	28.2	26.5	25.3	85	65	1.2
19	1012.7	31.4	28.6	26.2	24.0	77	43	0.0
20	1011.0	31.9	29.0	27.0	24.3	77	63	0.0
21	1011.6	31.9	29.2	27.4	23.4	71	33	0.0
22	1013.3	33.2	29.2	27.0	24.5	76	51	0.0
23	1013.1	32.4	29.0	27.6	24.7	78	76	Trace
24	1011.1	29.6	27.0	24.8	24.9	88	80	72.2
25	1009.9	30.2	27.0	24.8	23.1	80	82	34.5
26	1009.6	28.6	26.8	25.1	23.3	81	77	9.7
27	1009.8	30.2	27.3	26.0	22.9	77	88	Trace
28	1009.9	31.3	27.6	25.8	21.4	70	74	0.0
29	1008.9	31.3	27.4	24.3	18.8	60	26	0.0
30	1010.5	30.6	27.5	25.0	18.9	60	29	0.0
Mean/Total	1008.8	31.0	28.0	26.0	23.7	78	68	383.3
Normal§	1008.9	30.1	27.7	25.8	23.4	78	66	327.6

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal

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Daily Extract of Meteorological Observations , October 2018 - Tai Po

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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	1014.2	29.6	26.3	23.3	22.5	81	***	***	***
02	1015.3	29.5	25.8	22.4	21.6	79	***	***	***
03	1015.7	29.3	26.2	23.3	21.6	77	***	***	***
04	1014.2	29.4	25.3	21.6	18.5	68	***	***	***
05	1012.5	29.8	25.1	20.6	15.2	55	***	***	***
06	1013.9	29.1	25.0	20.7	16.9	62	***	***	***
07	1015.0	29.9	25.9	22.4	22.3	82	***	***	***
08	1014.5	29.4	26.3	23.9	23.3	84	***	***	***
09	1013.9	29.8	26.0	23.5	23.8	88	***	***	***
10	1015.1	29.5	23.8	21.5	23.1	94#	***	***	***
11	1018.3	23.7	21.8	20.7	19.4	86	***	***	***
12	1019.2	25.7#	22.8	20.4#	20.2	86	***	***	***
13	1017.9	25.7#	23.9	21.3#	21.5	86	***	***	***
14	1015.8	25.3	24.5	23.9	22.8	90	***	***	***
15	1014.8	26.1#	24.6	23.4#	23.8#	95#	***	***	***
16	1013.7	25.3	23.3	21.9	***	***	***	***	***
17	1013.2	23.0	21.7	20.4	***	***	***	***	***
18	1015.2	22.9#	21.6	20.0#	***	***	***	***	***
19	1017.6	26.1#	23.7	21.7#	20.1#	80#	***	***	***
20	1019.0	24.7	23.5	22.9	19.8	80	***	***	***
21	1017.9	25.7	23.6	21.3	20.6	83	***	***	***
22	1016.2	27.6	24.1	21.5	21.4	85	***	***	***
23	1016.9	26.5#	24.3	22.1#	21.2	83	***	***	***
24	1017.2	25.3	23.7	21.9	21.5	88	***	***	***
25	1017.2	26.6	24.4	22.4	21.3	83	***	***	***
26	1016.9	29.0	25.2	21.2	21.2	79	***	***	***
27	1018.6	26.0#	23.7	21.4#	16.7	65	***	***	***
28	1017.8	25.9	21.9	17.6	12.8	57	***	***	***
29	1015.6	27.2	23.1	18.6	8.8	41	***	***	***
30	1015.4	27.0	24.5	21.2	8.2	36	***	***	***
31	1014.9	26.0	23.8	20.2	8.6	38	***	***	***

*** 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 , October 2018 - Tai Mei Tuk

Year 2018 Month 10 Go

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	***	30.3	26.6	23.9	***	***	0.0	040	7.9
02	***	30.8#	26.3	23.4#	***	***	0.0	040	9.0
03	***	31.1	26.1	23.3	***	***	0.0	040	11.8
04	***	30.2	26.3	22.6	***	***	0.0	030	10.4
05	***	30.2#	26.3	22.0#	***	***	0.0	030	14.5
06	***	31.5	26.0	22.2	***	***	0.0	360	8.6
07	***	32.1	26.5	23.4	***	***	0.0	140	8.2
08	***	31.8	26.4	23.9	***	***	0.0	120	9.1
09	***	31.2#	26.5	24.1#	***	***	0.0	040	7.8
10	***	30.9	24.2	21.4	***	***	18.5	260	7.0
11	***	25.3	22.3	21.0	***	***	0.0	040	10.6
12	***	27.5	23.3	20.8	***	***	0.0	040	11.3
13	***	27.5#	24.2	21.8#	***	***	0.0	100	14.0
14	***	26.4	24.4	23.1	***	***	0.0	100	16.4
15	***	26.9#	24.7	23.4#	***	***	2.0	090	11.3
16	***	25.2	23.5	21.8	***	***	3.0	030	4.9
17	***	23.6#	21.9	20.5#	***	***	3.5	040	9.0
18	***	22.8	21.4	19.9	***	***	9.5	030	19.2
19	***	26.8	23.7	21.7	***	***	0.0	100	23.3
20	***	26.4#	23.9	22.8#	***	***	0.0	100	23.6
21	***	28.0#	23.9	21.4#	***	***	0.0	080	16.1
22	***	29.1#	24.6	22.3#	***	***	0.0	050	7.1
23	***	28.4#	24.8	22.5#	***	***	0.0	030	9.7
24	***	26.7#	24.3	22.9#	***	***	0.0	040	11.2
25	***	28.5	24.8	23.0	***	***	0.0	090	12.3
26	***	31.1	26.2	22.2	***	***	0.0	260	7.7
27	***	28.3#	24.8	22.1#	***	***	0.0	030	12.3
28	***	29.0#	23.3	19.3#	***	***	0.0	130	6.4
29	***	28.9#	24.7	20.2#	***	***	0.0	030	14.9
30	***	28.8#	25.2	22.4#	***	***	0.0	040	24.9
31	***	27.5	24.5	21.9	***	***	0.0	040	29.8

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

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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

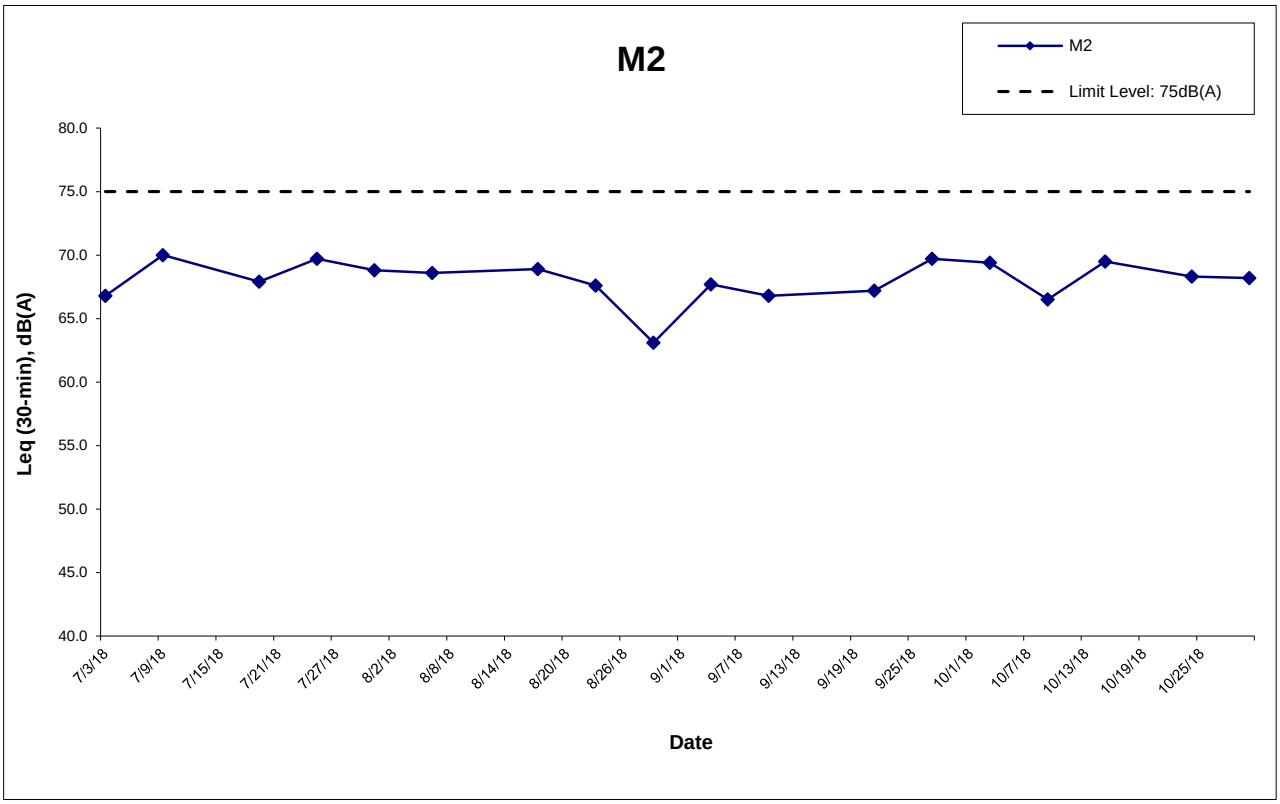
Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
3-Jul-18	14:10	66.8	70.0	64.5	75	N
9-Jul-18	10:08	70.0	76.2	66.5	75	N
19-Jul-18	14:18	67.9	69.6	65.2	75	N
25-Jul-18	10:25	69.7	71.4	67.2	75	N
31-Jul-18	13:35	68.8	70.5	65.9	75	N
6-Aug-18	13:05	68.6	70.3	65.9	75	N
17-Aug-18	14:49	68.9	71.5	66.3	75	N
23-Aug-18	13:45	67.6	69.2	65.5	75	N
29-Aug-18	13:25	63.1	65.0	60.5	75	N
4-Sep-18	15:05	67.7	69.0	65.2	75	N
10-Sep-18	14:20	66.8	69.5	65.0	75	N
21-Sep-18	14:45	67.2	69.0	65.0	75	N
27-Sep-18	11:35	69.7	72.3	66.9	75	N
3-Oct-18	11:45	69.4	71.0	66.5	75	N
9-Oct-18	11:20	66.5	68.5	64.0	75	N
15-Oct-18	9:52	69.5	71.8	67.2	75	N
24-Oct-18	15:00	68.3	70.4	66.8	75	N
30-Oct-18	14:15	68.2	69.8	66.1	75	N
Minimum for Aug 18 to Oct 18		63.1	65.0	60.5		
Maximum for Aug 18 to Oct 18		69.7	72.3	67.2		
Average for Aug 18 to Oct 18		68.1	70.1	65.7		

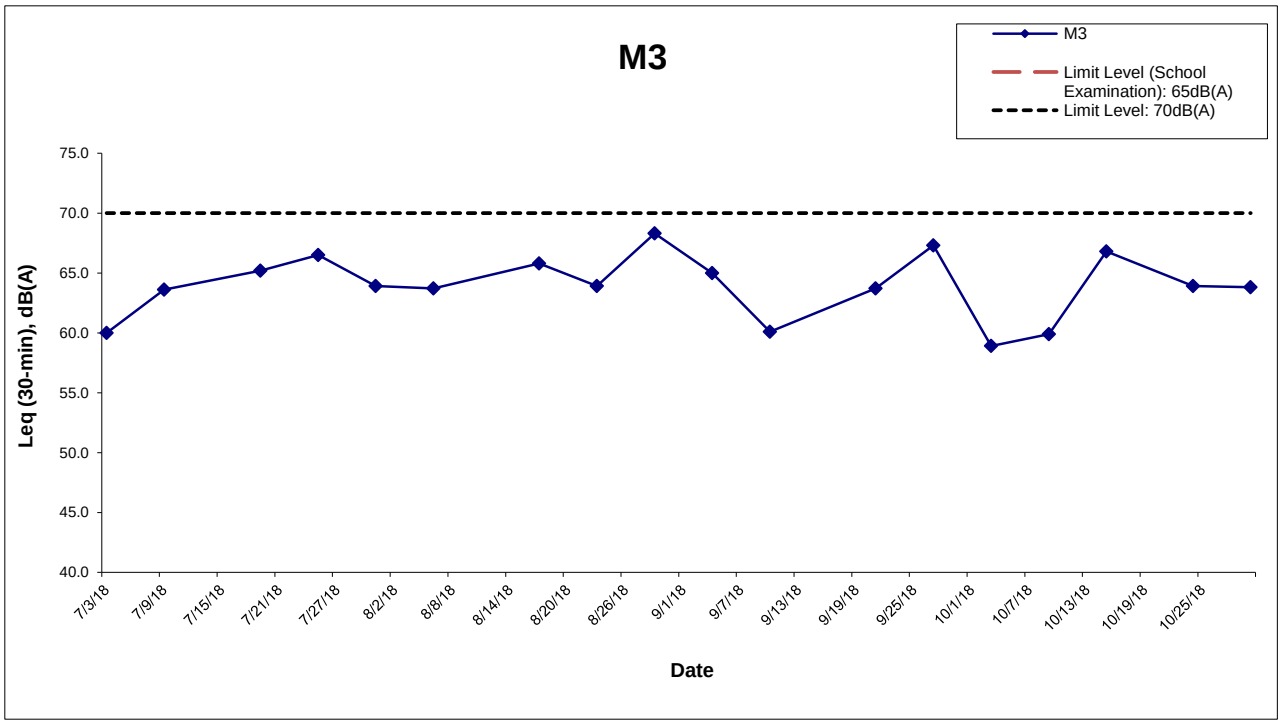
Location : M3 (Fanling Government Secondary School- Façade)
Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
3-Jul-18	13:30	60.0	61.0	56.5	70	N
9-Jul-18	9:45	63.6	67.2	57.8	70	N
19-Jul-18	15:05	65.2	66.8	62.6	70	N
25-Jul-18	11:28	66.5	68.9	64.3	70	N
31-Jul-18	14:30	63.9	65.6	61.5	70	N
6-Aug-18	14:15	63.7	65.5	61.4	70	N
17-Aug-18	15:50	65.8	67.1	63.2	70	N
23-Aug-18	14:02	63.9	65.5	61.8	70	N
29-Aug-18	14:40	68.3	69.8	65.5	70	N
4-Sep-18	14:00	65.0	66.7	63.2	70	N
10-Sep-18	13:30	60.1	61.5	57.0	70	N
21-Sep-18	13:50	63.7	65.2	61.3	70	N
27-Sep-18	13:49	67.3	69.4	65.6	70	N
3-Oct-18	11:30	58.9	60.5	56.5	70	N
9-Oct-18	11:05	59.9	60.5	56.5	70	N
15-Oct-18	10:50	66.8	68.7	64.3	70	N
24-Oct-18	13:35	63.9	65.5	60.7	70	N
30-Oct-18	13:20	63.8	65.8	60.9	70	N
Minimum for Aug 18 to Oct 18		58.9	60.5	56.5		
Maximum for Aug 18 to Oct 18		68.3	69.8	65.6		
Average for Aug 18 to Oct 18		64.7	66.4	62.3		

* +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.

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

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

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

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	8
	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	EPD referred an air complaint on 24 October 2014. 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. 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.	Closed		
	31 December 2014	EPD referred a water complaint on 31 December 2014. 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.	Closed		
	25 March 2015	EPD referred a water complaint on 25 March 2015. 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. The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	5 January 2017 (Referred by the Contractor on 13 January 2017)	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. 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. 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.	Closed		
	22 May 2017 (Referred by the Contractor on 23 May 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017. A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s). The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	25 February 2018 (Referred by the Contractor on 1 March 2018)	The 1823 enquiry and complaint hotline received a complaint on 25 February 2018. The complaint was referred to the Environmental Team by the Contractor on 1 March 2018. A complainant complained that noise nuisance was caused continuously by road construction works at Fanling Highway near Tai Hang Village during 01:30 to 04:00 on 25 February 2018. The complainant concerned that the nuisance affects residence and asked for follow-up action from the related department.			
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