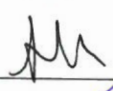
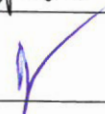


Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Annual EM&A Report
for November 2020 to September 2021**

[11/2021]

	Name	Signature
Prepared & Checked:	Alex Chan	
Reviewed & Approved:	Y W Fung	

Version: Rev. 0 Date: 11 November 2021

Disclaimer

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Environmental Monitoring and Audit (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 Condition 3.3 – Submission of Annual EM&A Report for November 2020 to September 2021 for the portion of Stage 2 works under Contract No. HY/2012/06

09 November 2021
By Fax (2805 5028) & Hand

We refer to the Annual EM&A Report for November 2020 to September 2021 received on 08 November 2021 submitted by the Environmental Team via email. We confirm that we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c.
HyD
AECOM

Mr. Ricky Yeung
Mr. Y W Fung

By Fax (3525 1450)
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 Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.

The construction works for this Project are 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. HY/2012/06 “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.

As informed by the Contractor, the construction works of the Contract No. HY/2012/06 and 02/HY/2015 under EP-324/2008/E have been substantially completed. The EPD agreed to stop the EM&A programme at end of September 2021. The termination of the EM&A Programme will be proposed once the submission of the Landscape Plan under the condition 2.6 of the captioned EP was approved by the EPD.

This report documents the findings of EM&A works conducted in the period between 1 November 2020 and 30 September 2021. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- Minor excavation for utility
- Backfilling
- Road resurfacing
- Landscape works
- Defect Rectification

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

Complaint, Notification of Summons and Successful Prosecution

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

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)	Resident Engineer	Arthur Ng	---	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 As informed by the Contractor, the construction works of the Contract No. HY/2012/06 and 02/HY/2015 under EP-324/2008/E have been substantially completed. The EPD agreed to stop the EM&A programme at end of September 2021. The termination of the EM&A Programme will be proposed once the submission of the Landscape Plan under the condition 2.6 of the captioned EP was approved by the EPD.

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

- Minor excavation for utility
- Backfilling
- Road resurfacing
- Landscape works
- Defect Rectification

1.3.3 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.

1.3.4 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.

2.5 Environmental Impact Hypotheses Tested

- 2.5.1 The EIA Report concluded that with proper mitigation measures implemented, fugitive dust emission during the construction phase would be controlled and will not exceed the acceptable criteria.
- 2.5.2 For construction noise, exceedances were predicted only at 2 schools (SR41 Wong Shiu Chi Middle School and SR45 HK Teacher's Association Secondary School) but they are out of the scope of this EM&A Programme. Hence, the EIA did not anticipate any noise exceedances during the construction phase within the scope of this EM&A Programme.
- 2.5.3 The above criteria have been tested under this EM&A Programme during the reporting period.

3 AIR QUALITY MONITORING

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

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

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	31.3	6.9 – 88.4	317.8	500

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

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	60.1	50.1 – 71.1	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting period.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

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

	Average (dB(A))	Range (dB(A))	Limit Level (dB(A))
	L_{eq} (30 mins)	L_{eq} (30 mins)	L_{eq} (30 mins)
M2*	65.9	56.1 – 69.2	75
M3#	63.3	55.0 – 69.2	65/70

*+3dB(A) Façade correction included

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

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action Level or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor of Contract No. HY/2012/06, 516 m³ of inert C&D material was generated in the reporting month (119 m³ disposed of as public fill to Tuen Mun 38, 306 m³ of inert C&D materials was reused on site, 48 m³ of inert C&D materials was reused in other projects and 43 m³ was broken concrete). For C&D wastes, 785 m³ of general refuse was disposed of at NENT landfill, 0 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling Contractors, and 0 kg of chemical wastes was 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 period 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 of as public fill	119 m ³	Tuen Mun 38
Broken concrete	43 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	785 m ³	NENT Landfill
Paper/cardboard packaging	563 kg	Recycling Contractors
Plastics	0 kg	Recycling Contractors
Metals	0 kg	Recycling Contractors
C&D materials reused on site	306 m ³	Site Area
C&D materials reused in other projects	48 m ³	Other projects
Chemical wastes	0kg	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 period.
- 6.1.2 No Action Level or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

8 REVIEW OF THE VALIDITY OF THE EIA/ERR PREDICTIONS

- 8.1.1 All the air quality monitoring results in the reporting period were below the Action and Limit Levels. The result was in line with the Environmental Impact Assessment (EIA) and Environmental Review Report (ERR) prediction that dust generation would be controlled and would not exceed the acceptable criteria, with proper implementation of the recommended dust mitigation measures.
- 8.1.2 All the noise monitoring results in the reporting period were below the Action and Limit Levels. The result was in line with the Environmental Impact Assessment (EIA) and Environmental Review Report (ERR) prediction that with the implementation of noise mitigation measures, the construction noise from the Project works will meet the stipulated criterion at the residential NSRs and at a majority of the education institutions.

9 REVIEW OF THE EFFECTIVENESS AND EFFICIENCY OF MITIGATION MEASURES

- 9.1.1 The impact air quality and noise monitoring programme ensured that any environmental impacts to the receivers would be readily detected and timely actions could be taken to rectify any non-compliance. The environmental monitoring results indicated that the construction activities in general were in compliance with the relevant environmental requirements and were environmentally acceptable. The weekly site inspections ensured that all the environmental mitigation measures recommended in the EIA/ERR were effectively implemented. Despite the minor deficiencies found during site audits, the Contractor has taken appropriate actions to rectify deficiencies within a reasonable timeframe. Therefore, the effectiveness and efficiency of the mitigation measures were considered high in most of the time.
- 9.1.2 For all the parameters under monitoring as mentioned in Section 8, the measured levels were in line with the EIA and ERR predictions generally. This indicates that the mitigation measures were effectively and efficiently implemented.

10 REVIEW OF SUCCESS OF EM&A PROGRAMME

- 10.1.1 The environmental monitoring methodology was considered well established as the monitoring results were found in line with the EIA predictions.
- 10.1.2 As effective follow-up actions were promptly taken once exceedances were recorded, no further exceedance occurred. The EM&A programme was considered successfully and adequately conducted during the course of the reporting period.

11 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

11.1 Comments

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

Contract No. HY/2012/06

Air Quality Impact

- The Contractor was advised to provide water spraying to the dusty work carried on site.
- The Contractor was reminded to cover the stockpile with imperious sheeting.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor was advised to remove the silt for preventing it enter the public drainage system.

Chemical and Waste Management

- The Contractor was reminded to remove the minor construction waste at landscape area.
- The Contractor was advised to provide the drip tray for the chemical waste stored onsite.
- The Contractor was reminded to remove the general refuse.
- The Contractor was advised to remove the general refuse and chemical waste containers.

Landscape and Visual Impact

- Nil.

Miscellaneous

- Nil.

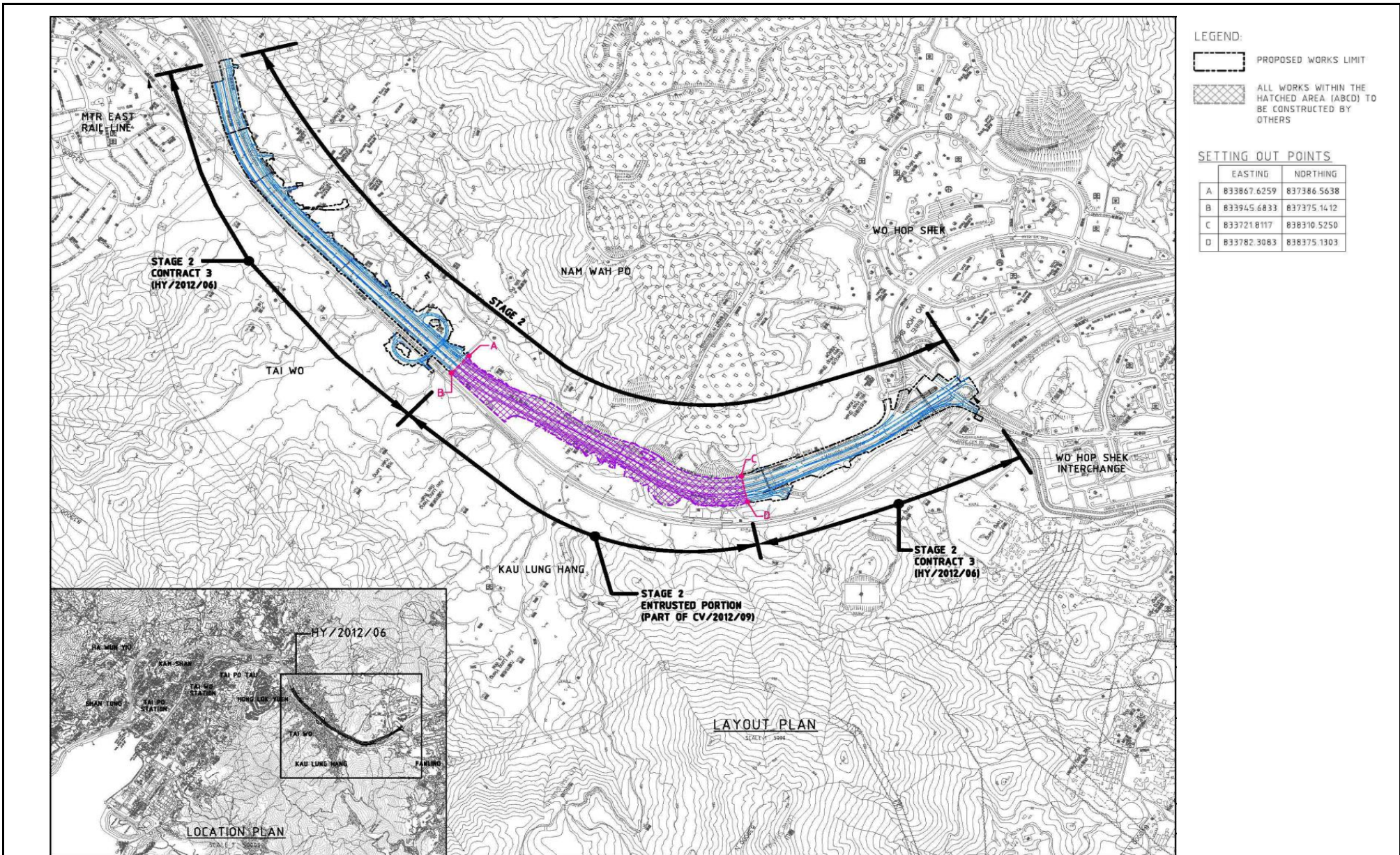
11.2 Recommendations

- 11.2.1 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.
- 11.2.2 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.

11.3 Conclusions

- 11.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 11.3.2 No Action Level or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 11.3.3 No notification of summons and successful prosecution was received in the reporting period.
- 11.3.4 As informed by the Contractor, the construction works of the Contract No. HY/2012/06 and 02/HY/2015 under EP-324/2008/E have been substantially completed. The EPD agreed to stop the EM&A programme at end of September 2021. The termination of the EM&A Programme will be proposed once the submission of the Landscape Plan under the condition 2.6 of the captioned EP was approved by the EPD.

FIGURES



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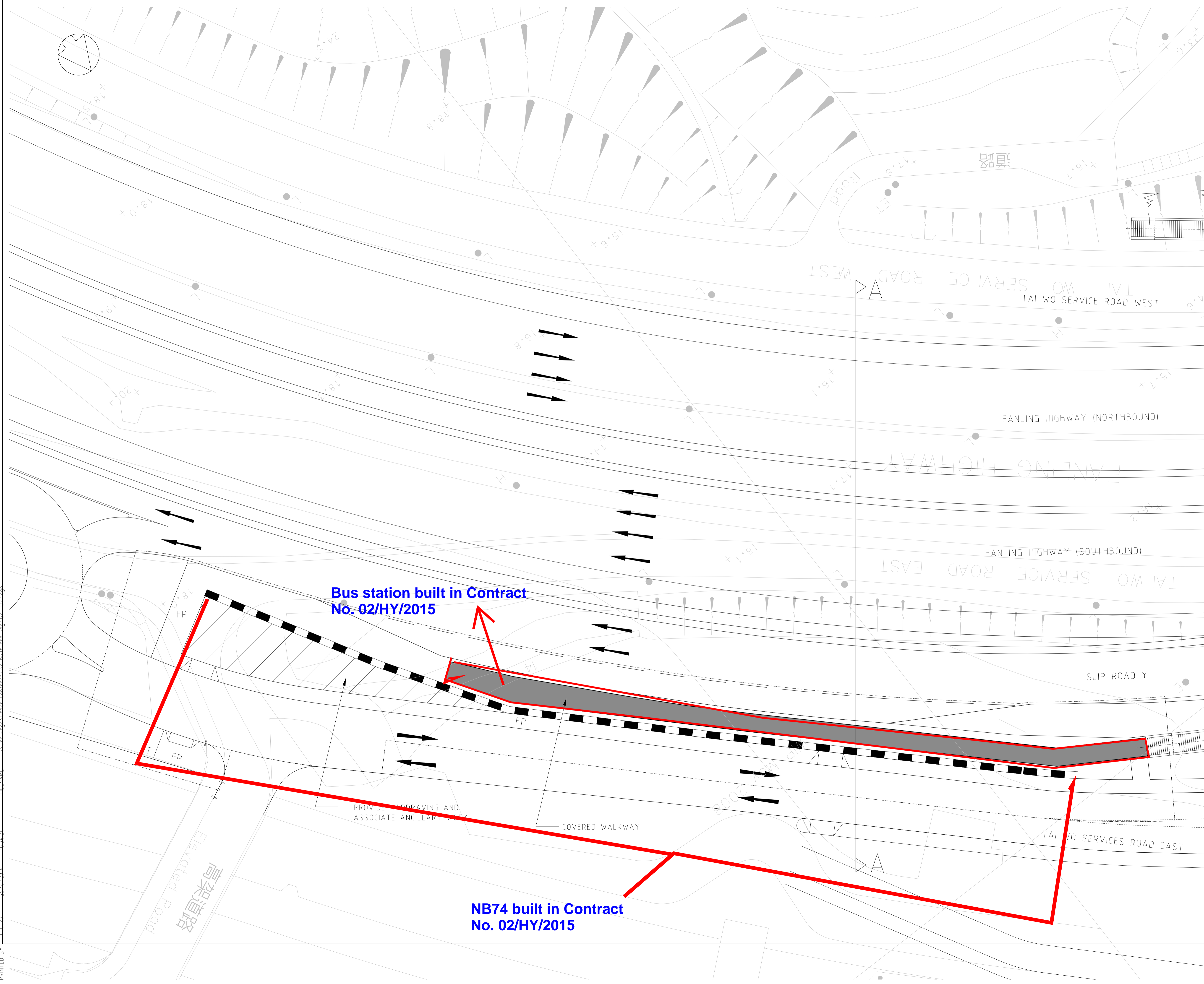
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

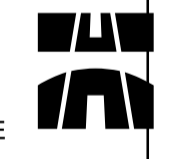
Figure 1.1



- LEGENDS :**
- LIMIT OF WORKS AREA
 - VERTICAL NOISE BARRIER 6m HIGH
 - COVERED WALKWAY
 - FOOTPATH
 - CYCLE TRACK

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修訂	日期	內容摘要	覆核	批覆人
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檔案名稱	A3 = 1300			

路政署
HIGHWAYS DEPARTMENT
 主要工程管理處
 MAJOR WORKS PROJECT MANAGEMENT OFFICE



CONTRACT TITLE
 合約項目
Highways Department Term Contract (Management and Maintenance of Roads in Tai Po and North Districts excluding High Speed Roads 2016-2012)

CONTRACT NO 02/HY/2015

CONSULTANT
 工程顧問
Hyder ARUP BLACK & VEATCH

DRAWING TITLE
 圖名
GENERAL LAYOUT FOR BBI

AS-BUILT DRAWING

DRAWING NO
 圖紙編號
 02/HY/2015/1377

REV
 修訂
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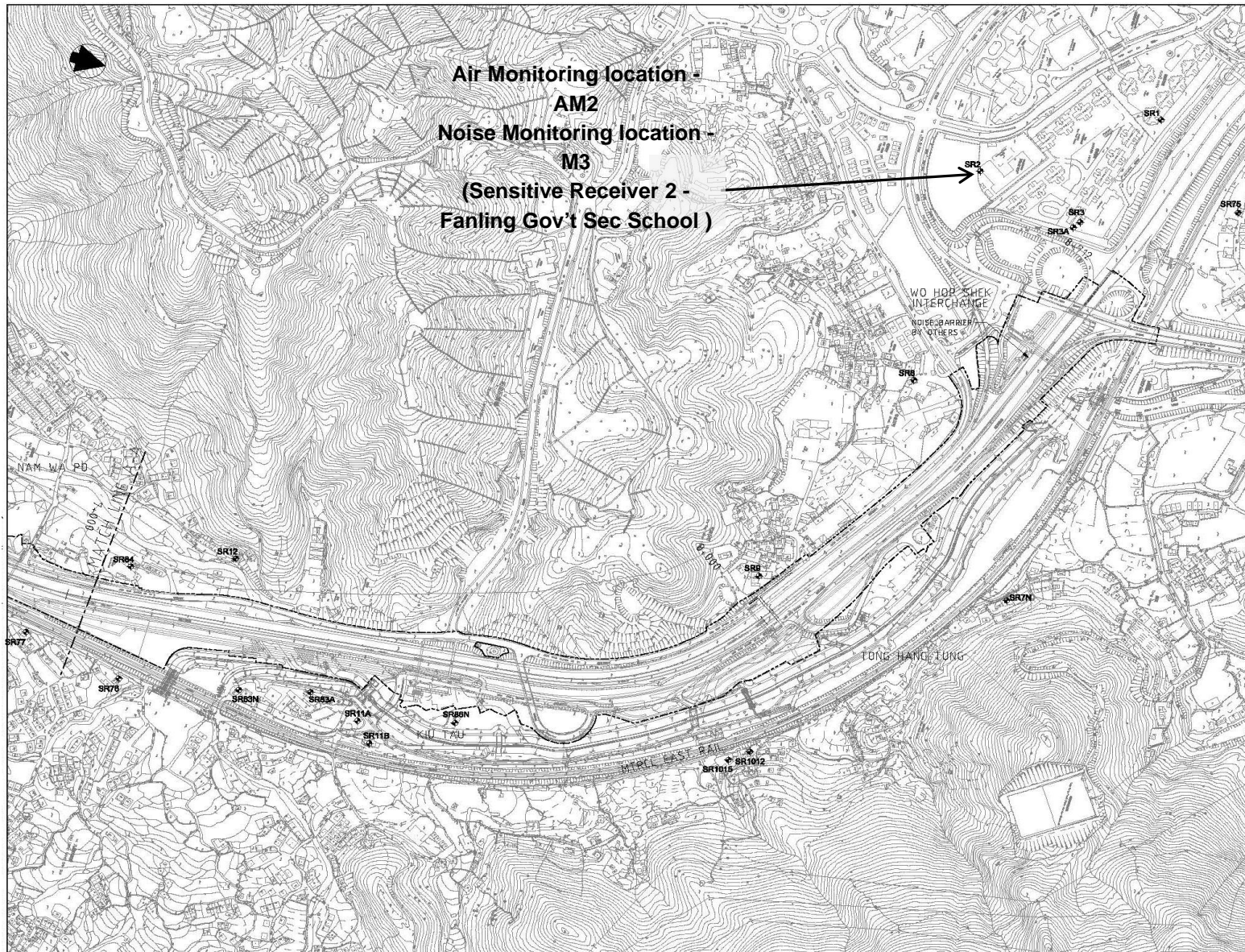
Bus station built in Contract No. 02/HY/2015

NB74 built in Contract No. 02/HY/2015

PROVIDE PAVEMENTING AND ASSOCIATE ANCILLARY WORK
 COVERED WALKWAY

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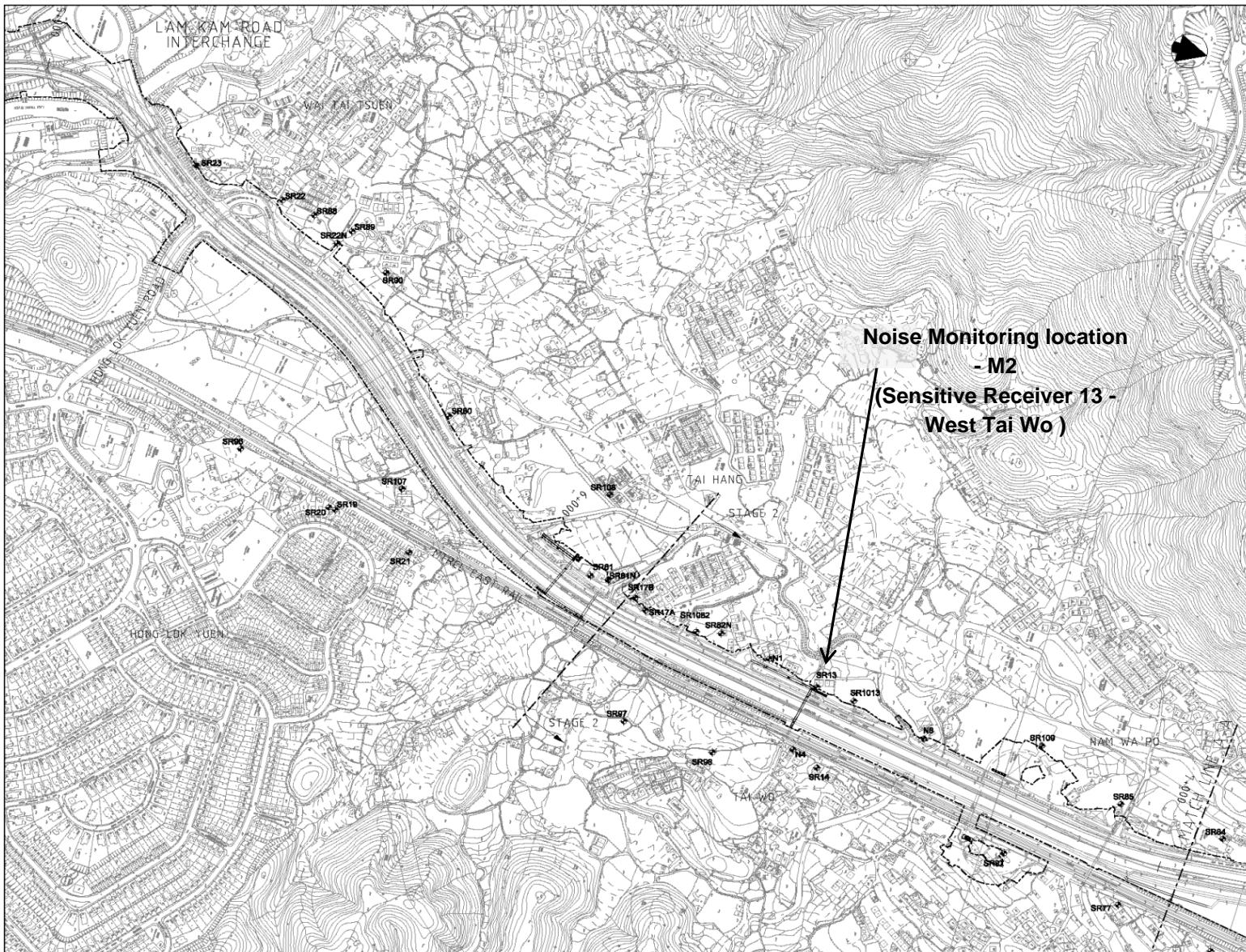
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.3a



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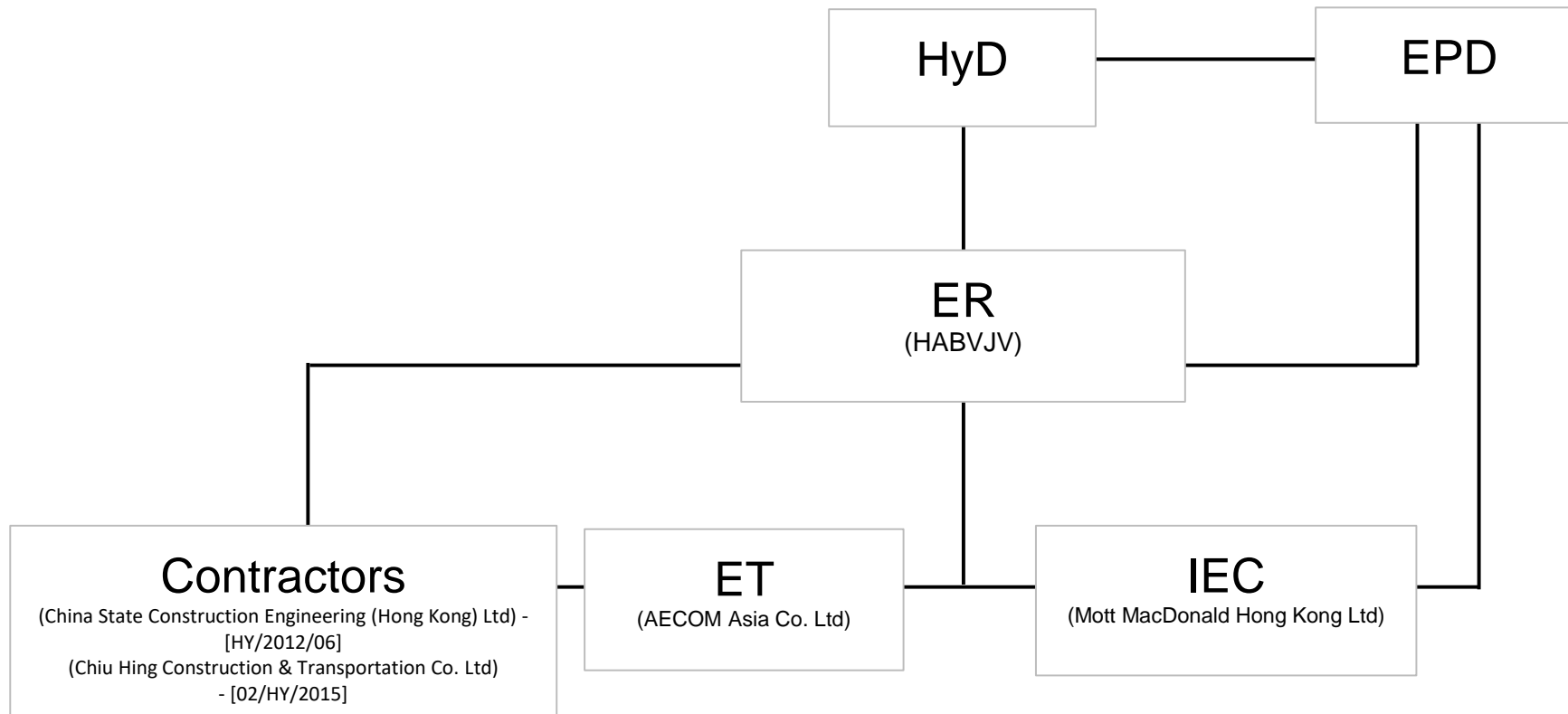


Locations of Monitoring Station

Date: Dec 2013

Figure 1.3b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Year																				
								2013	2014				2015				2016				2017				2018			
NB70 (Ch.6910-6930)-FH S/B Side Noise Barrier Works																												
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	30	20-Oct-18 A	23-Nov-18	22-Jun-19	26-Jun-19	174																					
NB03180	NB62 (110-170m) - Sheet piling & Excavation	11	01-Feb-17 A	17-Feb-17 A																								
NB03190	NB62 (110-170m) - Footing & Wall Structure	50	18-Feb-17 A	21-Apr-17 A																								
NB03200	NB62 (110-170m) - backfilling	20	21-May-18 A	13-Jun-18 A																								
NB03210	NB62 (110-170m) - NB production	107	20-May-18 A	03-Sep-18 A																								
NB03220	NB62 (110-170m) - NB post & panel installation	5	03-Sep-18 A	07-Sep-18 A																								
Fanling Highway Construction Drainage & Road Works Ch 6740-6930																												
RDZ20440	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 1) (Modify to final road level)	24	26-Aug-19	23-Sep-19	29-May-19	26-Jun-19	-74																					
RDZ20450	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 2) (Modify to final road level)	65	25-Oct-17 A	12-Jan-18 A																								
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	65	25-Oct-17 A	12-Jan-18 A																								
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	89	25-Sep-17 A	12-Jan-18 A																								
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	177	25-Oct-17 A	02-Jun-18 A																								
RDZ20500	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 3)	17	04-Jun-18 A	23-Jun-18 A																								
RDZ20510	Z2 (CH6740-6930): Fanling Highway S/B - D&R works (lane 2)	23	25-Jun-18 A	22-Jul-18 A																								
RDZ20520	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 1)	24	27-Feb-19	26-Mar-19	29-May-19	26-Jun-19	73																					
RDZ20530	Z2 (CH6740-6930): Fanling Highway Road works (8 lanes) complete	0		23-Sep-19		26-Jun-19	-74																					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100) Site Formation Site Formation Works Site Formation Work																												
Z4SF1000	Tree felling plan and permit from Engineer	0	06-Nov-13 A					◆ Tree felling plan and permit from Engineer																				
Z4SF1010	Tree felling	42	27-Nov-13 A	17-Jan-14 A																								
Z4SF1020	Install temp filter dam at existing box culvert	4	11-Jan-14 A	15-Jan-14 A																								
Z4SF1030	Laying temp drainage pipe for drainage diversion	3	16-Jan-14 A	18-Jan-14 A																								
Z4SF1040	Construct earth bund	9	21-Jan-14 A	04-Feb-14 A																								
Z4SF1050	Remove existing unsuitable material	10	06-Feb-14 A	20-Feb-14 A																								
Z4SF1060	Backfilling up to formation level for Drainage work	59	20-Feb-14 A	06-May-14 A																								
Z4SF1065	Drainage Work	82	10-May-14 A	15-Aug-14 A																								
Z4SF1070	Backfilling (~20000m3)	254	10-May-14 A	19-Mar-15 A																								
Retaining Wall W76 Structure Works																												
RW761080	Base slab - W76 (~7m high)	35	20-Aug-14 A	30-Sep-14 A																								
RW761085	Wall construction - W76 (~7m high)	113	03-Oct-14 A	14-Feb-15 A																								
Z4SF1090	Watermains installation	65	10-Mar-15 A	29-May-15 A																								
Z4SF1110	Backfilling up to road finishes level	58	22-Jun-15 A	28-Aug-15 A																								
Bridge Construction																												

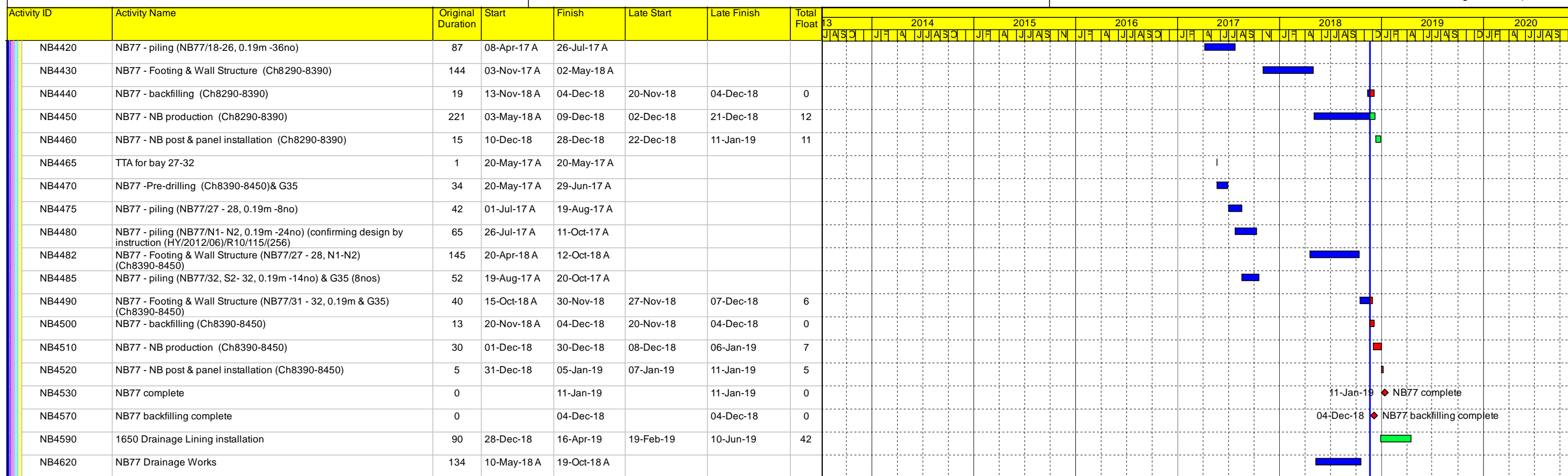
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 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
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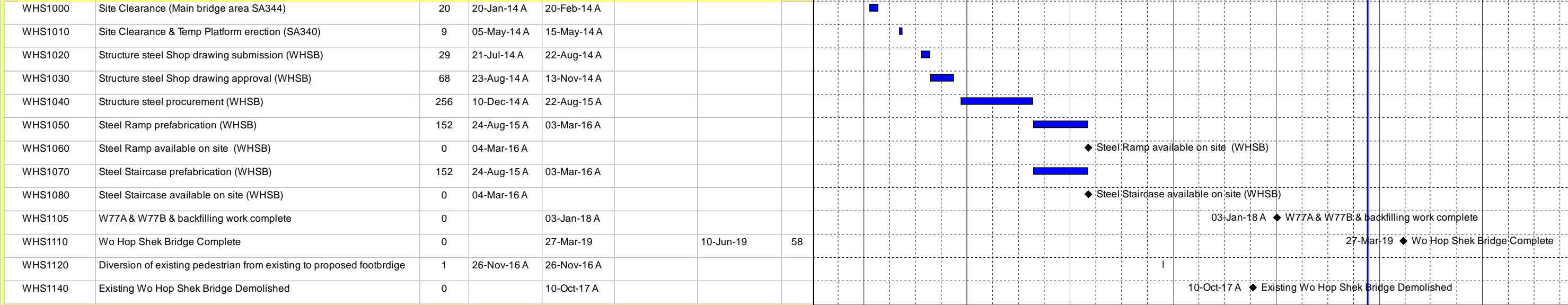
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03-Dec-18	WP Rev 7		



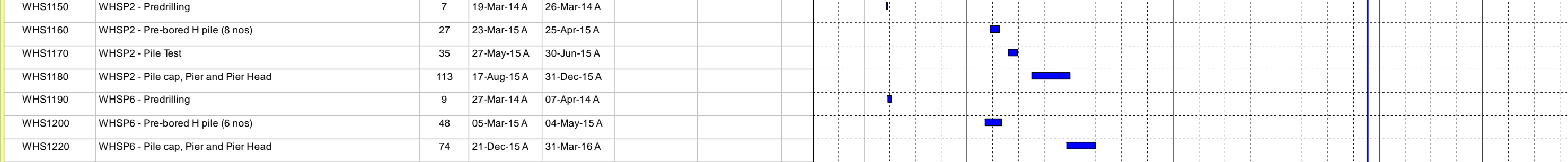
Bridge Construction

New Wo Hop Shek Pedstrian & Cycle Bridge

General



TWSR-West/ FL Highway N/B Side Section



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

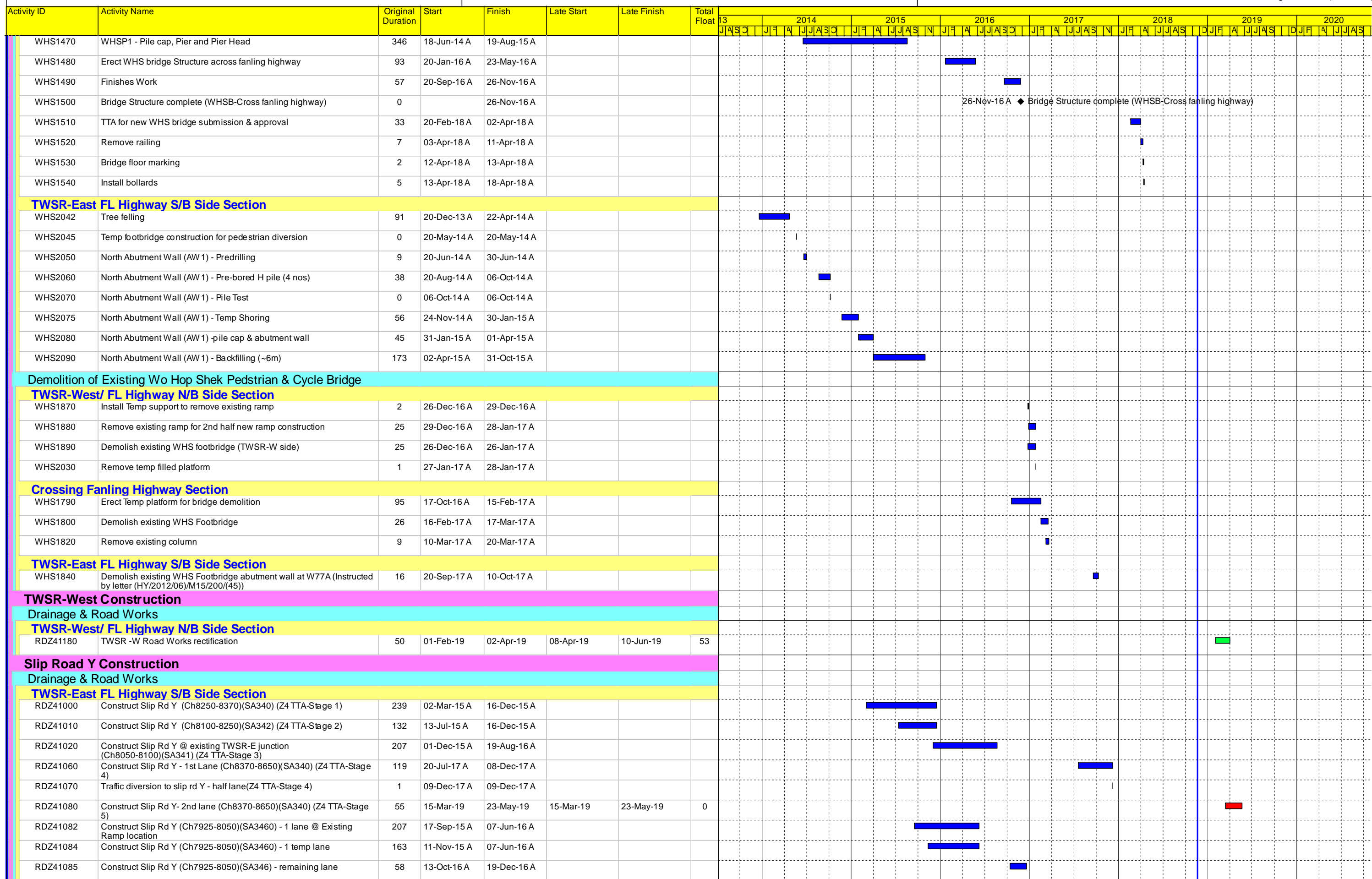
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Remaining Level of Effort
 Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit. Milestone

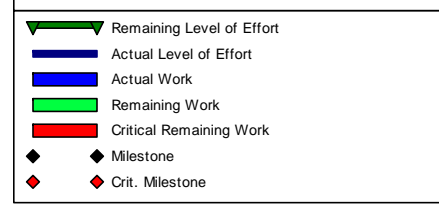
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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	2013-2020 Gantt Chart											
								2013	2014	2015	2016	2017	2018	2019	2020				
RDZ41110	Construct FH N/B Lane 1 (Ch8100-8600)	18	05-Dec-18	27-Dec-18	05-Dec-18	27-Dec-18	0												
RDZ41112	Construct FH N/B Lane 2 (Ch8100-8600)	18	28-Dec-18	18-Jan-19	28-Dec-18	18-Jan-19	0												
RDZ41114	Construct FH N/B Lane 3 (Ch8100-8600)	18	19-Jan-19	11-Feb-19	19-Jan-19	11-Feb-19	0												
RDZ41119	Construct FH N/B Lane 4 (Ch8100-8600)	18	12-Feb-19	04-Mar-19	12-Feb-19	04-Mar-19	0												
TWSR-East FL Highway S/B Side Section																			
HKY1412	Construct temp road for TWSR-East & FH S/B diversion	26	01-Aug-15 A	31-Aug-15 A															
RDZ41002	TTA approval period	120	02-Oct-13 A	29-Jan-14 A															
RDZ41004	Site Clearance & Tree Felling	60	20-May-14 A	30-Jul-14 A															
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 TTA-Stage 1)	240	02-Mar-15 A	17-Dec-15 A															
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 TTA-Stage 2)	183	12-May-15 A	17-Dec-15 A															
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction (Ch8050-8100)(SA341) (Z4 TTA-Stage 3)	210	18-Dec-15 A	09-Sep-16 A															
RDZ41030	Realign Temp Road from TWSR-E to Petrol station (Z4 TTA-Stage 3)	40	01-Sep-15 A	19-Oct-15 A															
RDZ41040	Construct FH S/B Lane 1,2 (Ch8000-8050)(SA340)(Z4 TTA-Stage 3)	49	19-Oct-15 A	15-Dec-15 A															
RDZ41042	TTA for HKY P2 works	5	28-Dec-15 A	02-Jan-16 A															
RDZ41050	Traffic Diversion for FH S/B road construction (Z4 TTA-Stage 4)	6	10-Sep-16 A	17-Sep-16 A															
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY bridge demolition)	21	20-Feb-18 A	15-Mar-18 A															
RDZ41090	Remove FH central barrier & road work for TTA	59	17-Sep-16 A	26-Nov-16 A															
RDZ41100	TTA for FH N/B Lane 1, 2, 3 construction (Ch7925-8600)(SA340) (Z4 TTA-Stage 6)	0		26-Nov-16 A															
RDZ41121	Drainage work at central divider (at NBZ2)	201	01-Feb-17 A	09-Oct-17 A															
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	11	30-Jan-18 A	10-Feb-18 A															
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	15	12-Jan-18 A	29-Jan-18 A															
RDZ41131	Drainage work at central divider (Ch8100-8600)	240	10-Oct-17 A	02-Aug-18 A															
RDZ41133	Construct FH S/B Lane 3 (Ch8100-8470)	196	27-Mar-18 A	22-Nov-18	01-Mar-19	04-Mar-19	82												
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8470)	196	27-Mar-18 A	22-Nov-18	01-Mar-19	04-Mar-19	82												
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	60	02-Jan-19	14-Mar-19	19-Jan-19	01-Apr-19	15												
RDZ41140	Fanling Highway road work complete (except final pavement and central divider)	0		04-Mar-19		04-Mar-19	0												
RDZ41150	Central Divider construction	24	05-Mar-19	01-Apr-19	05-Mar-19	01-Apr-19	0												
RDZ41160	Final pavement & final road marking	18	02-Apr-19	26-Apr-19	02-Apr-19	26-Apr-19	0												
RDZ41170	Complete Slip road V and associated slope work	120	12-Jan-19	10-Jun-19	12-Jan-19	10-Jun-19	0												
Other Works																			
Retaining Wall W77A																			
TWSR-East FL Highway S/B Side Section																			
RWZ4.1050	Site Clearance	30	05-May-14 A	10-Jun-14 A															
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.20-92)	169	27-Feb-15 A	19-Sep-15 A															
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.20-92)	71	21-Sep-15 A	15-Dec-15 A															
RWZ4.1075	Temp Shoring & Excavation	47	01-Feb-17 A	31-Mar-17 A															
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-20)	109	01-Apr-17 A	15-Aug-17 A															
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	47	24-Aug-17 A	19-Oct-17 A															
RWZ4.1140	Base slab & Wall (0-3m high)- RW77A (Ch.92-120)	111	13-Sep-16 A	26-Jan-17 A															
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	163	01-Feb-17 A	23-Aug-17 A															
RWZ4.1160	CLP 132kV cable diversion	119	15-Nov-16 A	18-Apr-17 A															
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	66	26-May-17 A	12-Aug-17 A															
RWZ4.1180	DN600 pipe installation ready to start	0	14-Aug-17 A																



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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	Year																	
								2013	2014			2015			2016			2017			2018			2019	
RWZ4.1190	Temporary diversion of existing watermain under new slip road Y	4	12-Jun-17 A	15-Jun-17 A																					
Retaining Wall W77B																									
TWSR-East FL Highway S/B Side Section																									
RWZ4.1092	Site Clearance	106	21-Jul-14 A	24-Nov-14 A																					
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	155	20-Jan-17 A	05-Aug-17 A																					
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	30	07-Aug-17 A	09-Sep-17 A																					
RWZ4.1115	Temp Shoring & Excavation	250	01-Mar-16 A	31-Dec-16 A																					
RWZ4.1120	Base slab & Wall (3-4m high)- RW77B (Ch.23-75)	199	01-Jun-16 A	27-Jan-17 A																					
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	33	11-Sep-17 A	20-Oct-17 A																					
Retaining Wall W78																									
TWSR-East FL Highway S/B Side Section																									
RWZ4.0900	Site Clearance	12	11-Dec-17 A	23-Dec-17 A																					
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site meeting)	56	27-Jun-18 A	31-Aug-18 A																					
RWZ4.1010	Base slab & Wall (6-11m high)- RW78 (Ch.0-50)	188	02-Jan-18 A	21-Aug-18 A																					
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	83	01-Sep-18 A	10-Dec-18	08-Dec-18	31-Dec-18	16																		
RWZ4.1030	Base slab & Wall (0-6m high)- RW78 (Ch.50-129)	99	01-Sep-18 A	31-Dec-18	20-Nov-18	31-Dec-18	0																		
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	30	02-Jan-19	07-Feb-19	02-Jan-19	07-Feb-19	0																		
Slope Works																									
TWSR-East FL Highway S/B Side Section																									
S1030	Slope S53-Fill ~5m (Deleted on 20-July-18, VO pending)	0	20-Jul-18 A	20-Jul-18 A																					
S1040	Slope S54A-Cut ~4m	40	20-Nov-18	08-Jan-19	07-Mar-19	26-Apr-19	87																		
S1050	Slope S54B-Cut ~5m	40	20-Nov-18	08-Jan-19	07-Mar-19	26-Apr-19	87																		
S1060	Slope S55-Fill ~10m	30	08-Feb-19	14-Mar-19	08-Feb-19	14-Mar-19	0																		
TCSS Works																									
TCSS Pre-Construction Works																									
TCSS0100	Acquire Design Criteria from Drawing & procurement	256	27-Feb-15 A	06-Jan-16 A																					
TCSS0110	Confirm Design criteria with Engineer	29	20-Feb-16 A	19-Mar-16 A																					
TCSS0120	Prepare Shop Drawing-TCSS	125	20-Dec-17 A	28-May-18 A																					
TCSS0130	Shop Drawing Comment & Approval	43	29-May-18 A	10-Jul-18 A																					
TCSS0140	Revised & Re-submission TCSS shop Drawing	95	11-Jul-18 A	01-Nov-18 A																					
TCSS0150	Confirm Shop drawing & ready for material ordering & factory production	0		01-Nov-18 A																					
TCSS0160	Raw material procurement	219	09-Jan-18 A	15-Aug-18 A																					
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0	20-Nov-18	20-Nov-18	08-Jul-20	08-Jul-20	484																		
TCSS0230	Sign Gantry Factory production - G34 (Z4)	35	02-Nov-18 A	12-Dec-18	23-Nov-18	15-Dec-18	3																		
TCSS0240	Sign Gantry Factory production - G35 (Z4)	30	25-Mar-19	03-May-19	28-Mar-19	07-May-19	3																		
TCSS0250	Sign Gantry Factory production - G36 (Z4)	30	11-Dec-18	17-Jan-19	14-Dec-18	21-Jan-19	3																		
TCSS0260	Sign Gantry Factory production - DS50 (Z4)	30	16-Jan-19	21-Feb-19	19-Jan-19	25-Feb-19	3																		
TCSS0270	Sign Gantry Factory production - FADS8 (Z4)	30	20-Feb-19	26-Mar-19	23-Feb-19	29-Mar-19	3																		
Civil Provision for TCSS Works																									
TCSS2130	Civil Provision for TCSS works available (Zone 4)	0		10-Jun-19		10-Jun-19	0																		
TCSS2150	M12 for CCTV	14	27-Apr-19	14-May-19	08-May-19	23-May-19	8																		
TCSS2160	P51 for VLSL	14	24-May-19	10-Jun-19	24-May-19	10-Jun-19	0																		
TCSS2170	P52 for VLSL	14	24-May-19	10-Jun-19	24-May-19	10-Jun-19	0																		
TCSS2210	Pillar box, isolator & associated duct work - PL207 for G34 & G35	30	05-Dec-18	11-Jan-19	12-Jan-19	18-Feb-19	30																		

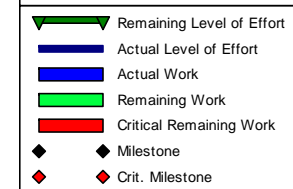
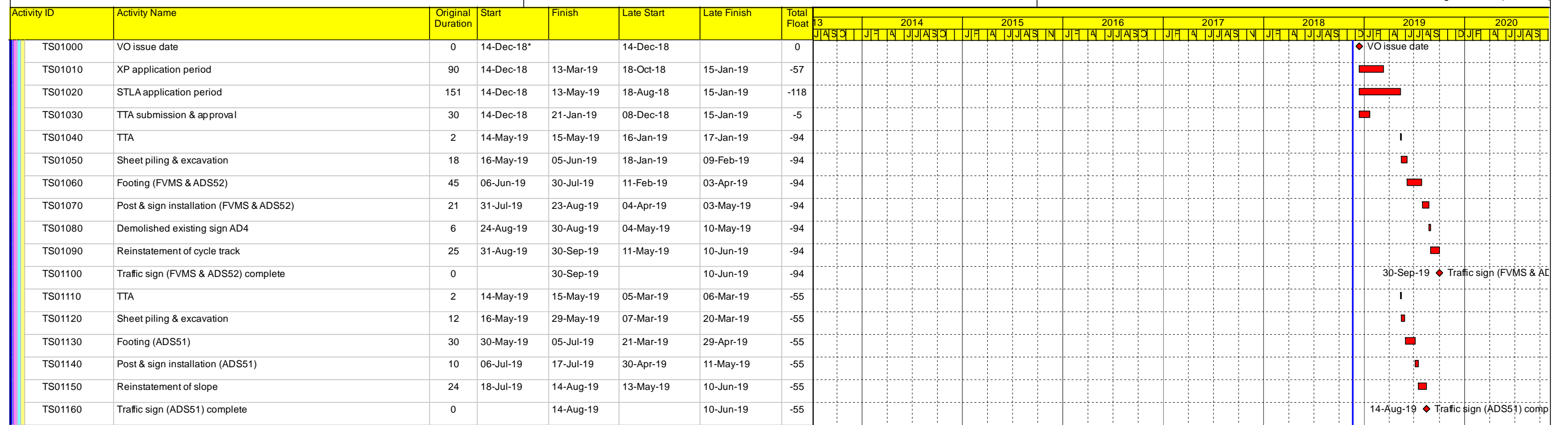
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 Milestone
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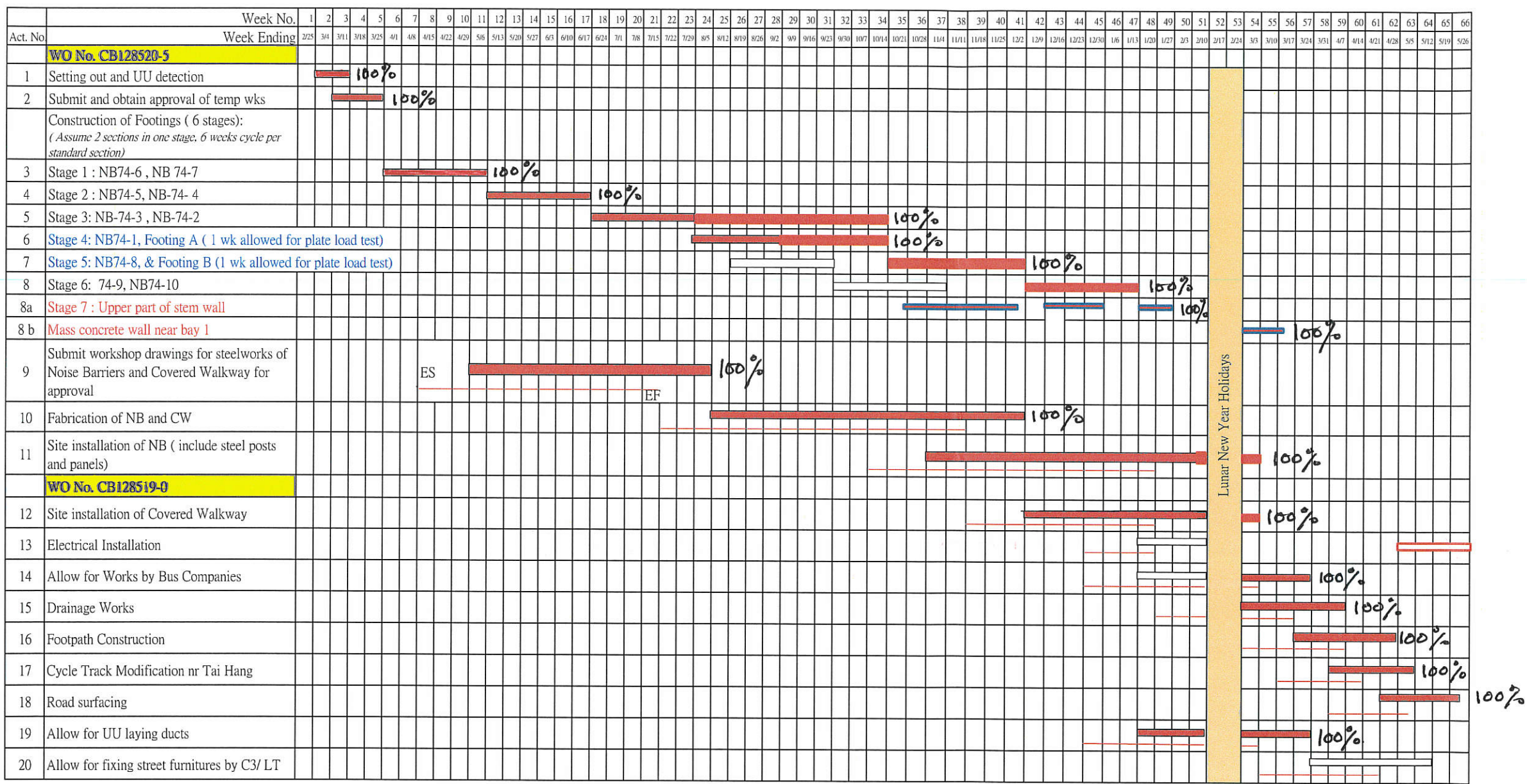
Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

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

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

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program
03	28/9/2017	revise program of task 5-8
04	23/1/2018	add mass wall & revise installation of NB & BBI



Cycle time for standard section :

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

** Breakdown of Item 5

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

Breakdown of Item 6

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

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

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

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

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

Air Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status											
			Nov 20	Dec 20	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21	
Air Quality during Construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V	V	V	V	V	V	V	V	V	
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		V	V	@	V	V	V	V	V	V	V	V	
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	V	V	V	V	V	V	V	V	V	V	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V	V	V	V	V	V	V	V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V	V	V	V	V	V	V	V	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V	V	V	V	V	V	V	V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V	V	V	V	V	V	V	V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V	V	V	V	V	V	V	V	V	V	V	V

Noise - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status										
			Nov 20	Dec 20	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21
Noise during Construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V	V	V	V	V	V	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V	V	V	V	V	V	V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V*	V*	V*	V*	V*	V*	V*	V*	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*	V*	V*	V*	V*	V*	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*	V*	V*	V*	V*	V*	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*	V*	V*	V*	V*	V*	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*	V*	V*	V*	V*	V*	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*	V*	V*	V*	V*	V*	V*	V*	V*
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V*	V*	V*	V*	V*	V*	V*	V*	V*	V*	V*
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		V*	V*	V*	V*	V*	V*	V*	V*	V*	V*	V*
Noise during Operation	Various type of barriers of varying heights as shown in Figures 4a to 4e – Layout of Noise Barriers of the Environmental Permit	Review of required noise barrier layout during the design stage	V*	V*	V*	V*	V*	V*	V*	V*	V*	V*	

Water Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status										
			Nov 20	Dec 20	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21
Water quality during Construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V	V	V	V	V	V	V	V	V	V	V
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of 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. 		V	V	V	V	V	V	V	V	V	V	

Waste - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status										
			Nov 20	Dec 20	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21
Waste Management during Construction	General Waste <ul style="list-style-type: none"> - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards. 	During construction	V	V	V	V	V	V	@	V	V	V	V
	Vegetation from site clearance <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V	V	V	V	V	V	V	V	V	V	
	Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V	V	V	V	V	V	V	V	
	Excavated Materials <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated. 		V	V	V	V	V	V	V	V	V	V	
	Construction Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. 		V	V	@	V	V	V	V	V	V	V	V

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

Ecology - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status										
			Nov 20	Dec 20	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21
	Accurate Delineation of Works Area <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 		V	V	V	V	V	V	V	V	V	V	V
	Vegetation Clearance <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V	V	V	V	V	V	V	V	V	V	V
	Dust generation <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		V	V	V	V	V	V	V	V	V	V	V
	Surface Run-off <p>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 		V	V	V	V	V	V	V	V	V	V	V

Landscape and Visual Impact - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status										
			Nov 20	Dec 20	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21
Landscape and Visual during Construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V	V	V	V	V	V	V	V	V
	Temporary Works Areas - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V	V	V	V	V	V	V	V	V	V	V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V	V	V	V	V	V	V	V	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.		V	V	V	V	V	V	V	V	V	V	V

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

= to be implemented.

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

Appendix D - Summary of Action and Limit Levels

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

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

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

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

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

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

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

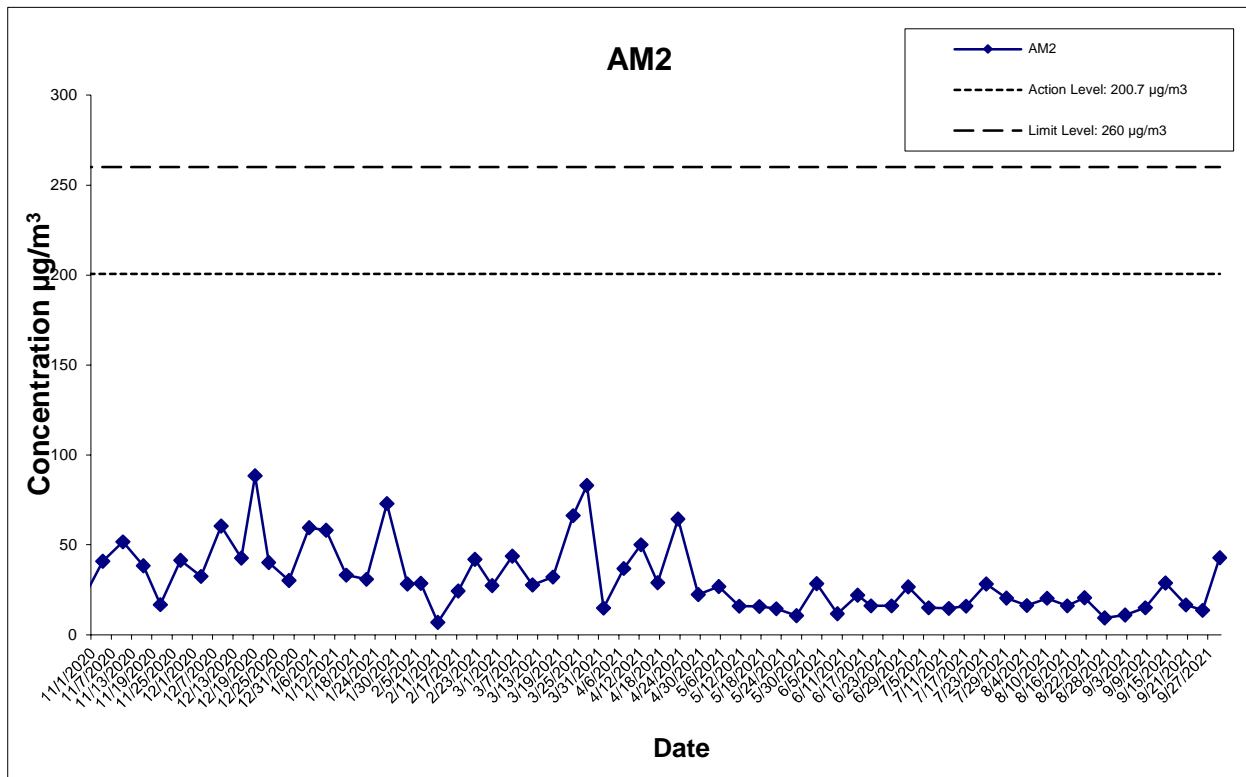
**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

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

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m³/min.)		Av. flow (m³/min)	Total vol. (m³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m³)	Actino Level (µa/m³)	Limit Level (µg/m³)
				Initial	Final			Initial	Final		Initial	Final				
4-Nov-20	Sunny	23.0	1017.5	1.331	1.331	1.331	1916.6	2.6849	2.7635	0.0786	15190.02	15214.02	24.00	41.0	200.7	260
10-Nov-20	Cloudy	22.9	1019.3	1.331	1.331	1.331	1916.6	2.6725	2.7716	0.0991	15214.02	15238.02	24.00	51.7	200.7	260
16-Nov-20	Sunny	24.0	1017.9	1.331	1.331	1.331	1916.6	2.6956	2.7693	0.0737	15238.02	15262.02	24.00	38.5	200.7	260
21-Nov-20	Cloudy	23.5	1014.8	1.331	1.331	1.331	1916.6	2.6644	2.6966	0.0322	15262.02	15286.02	24.00	16.8	200.7	260
27-Nov-20	Cloudy	22.8	1020.6	1.331	1.331	1.331	1916.6	2.6788	2.7581	0.0793	15286.02	15310.02	24.00	41.4	200.7	260
3-Dec-20	Sunny	17.4	1021.0	1.331	1.331	1.331	1916.6	2.7050	2.7672	0.0622	15310.02	15334.02	24.00	32.5	200.7	260
9-Dec-20	Sunny	19.8	1017.7	1.331	1.331	1.331	1916.6	2.6753	2.7910	0.1157	15334.02	15358.02	24.00	60.4	200.7	260
15-Dec-20	Cloudy	15.4	1022.2	1.331	1.331	1.331	1916.6	2.6960	2.7776	0.0816	15358.02	15382.02	24.00	42.6	200.7	260
19-Dec-20	Sunny	15.0	1023.4	1.331	1.331	1.331	1916.6	2.6927	2.8621	0.1694	15382.02	15406.02	24.00	88.4	200.7	260
23-Dec-20	Fine	18.4	1016.9	1.331	1.331	1.331	1916.6	2.6775	2.7546	0.0771	15406.02	15430.02	24.00	40.2	200.7	260
29-Dec-20	Sunny	21.0	1014.8	1.331	1.331	1.331	1916.6	2.7023	2.7600	0.0577	15430.02	15454.02	24.00	30.1	200.7	260
4-Jan-21	Sunny	18.3	1021.0	1.331	1.331	1.331	1916.6	2.6976	2.8118	0.1142	15454.02	15478.02	24.00	59.6	200.7	260
9-Jan-21	Fine	10.7	1024.5	1.331	1.331	1.331	1916.6	2.6758	2.7871	0.1113	15478.02	15502.02	24.00	58.1	200.7	260
15-Jan-21	Sunny	17.3	1016.1	1.331	1.331	1.331	1916.6	2.6724	2.7361	0.0637	15502.02	15526.02	24.00	33.2	200.7	260
21-Jan-21	Sunny	20.1	1015.6	1.331	1.331	1.331	1916.6	2.7133	2.7724	0.0591	15526.02	15550.02	24.00	30.8	200.7	260
27-Jan-21	Sunny	18.9	1017.8	1.331	1.331	1.331	1916.6	2.6549	2.7948	0.1399	15550.02	15574.02	24.00	73.0	200.7	260
2-Feb-21	Sunny	20.9	1019.7	1.331	1.331	1.331	1916.6	2.7235	2.7777	0.0542	15574.02	15598.02	24.00	28.3	200.7	260
6-Feb-21	Sunny	20.7	1017.4	1.331	1.331	1.331	1916.6	2.7250	2.7798	0.0548	15598.02	15622.02	24.00	28.6	200.7	260
11-Feb-21	Sunny	17.4	1014.7	1.331	1.331	1.331	1916.6	2.6854	2.6987	0.0133	15622.02	15646.02	24.00	6.9	200.7	260
17-Feb-21	Sunny	20.4	1019.6	1.314	1.314	1.314	1892.2	2.6688	2.7149	0.0461	15646.02	15670.02	24.00	24.4	200.7	260
22-Feb-21	Sunny	21.4	1015.8	1.314	1.314	1.314	1892.2	2.6876	2.7671	0.0795	15670.02	15694.02	24.00	42.0	200.7	260
27-Feb-21	Cloudy	18.8	1014.0	1.314	1.314	1.314	1892.2	2.7233	2.7751	0.0518	15694.02	15718.02	24.00	27.4	200.7	260
5-Mar-21	Cloudy	20.1	1015.9	1.314	1.314	1.314	1892.2	2.7076	2.7903	0.0827	15718.02	15742.02	24.00	43.7	200.7	260
11-Mar-21	Sunny	21.0	1019.8	1.314	1.314	1.314	1892.2	2.7031	2.7556	0.0525	15742.02	15766.02	24.00	27.7	200.7	260
17-Mar-21	Sunny	24.7	1012.9	1.314	1.314	1.314	1892.2	2.6921	2.7530	0.0609	15766.02	15790.02	24.00	32.2	200.7	260
23-Mar-21	Fine	18.9	1020.6	1.314	1.314	1.314	1892.2	2.6898	2.8152	0.1254	15790.02	15814.02	24.00	66.3	200.7	260
27-Mar-21	Sunny	24.1	1012.0	1.314	1.314	1.314	1892.2	2.6884	2.8456	0.1572	15814.02	15838.02	24.00	83.1	200.7	260
1-Apr-21	Sunny	26.7	1007.6	1.314	1.314	1.314	1892.2	2.6940	2.7221	0.0281	15838.02	15862.02	24.00	14.9	200.7	260
7-Apr-21	Fine	23.1	1016.0	1.314	1.314	1.314	1892.2	2.7823	2.8521	0.0698	15862.02	15886.02	24.00	36.9	200.7	260
12-Apr-21	Sunny	24.6	1016.1	1.314	1.314	1.314	1892.2	2.7200	2.8147	0.0947	15886.02	15910.02	24.00	50.0	200.7	260
17-Apr-21	Sunny	22.8	1015.8	1.314	1.314	1.314	1892.2	2.7151	2.7700	0.0549	15910.02	15934.02	24.00	29.0	200.7	260
23-Apr-21	Cloudy	27.3	1007.9	1.314	1.314	1.314	1892.2	2.6815	2.8032	0.1217	15934.02	15958.02	24.00	64.3	200.7	260
29-Apr-21	Sunny	24.1	1013.3	1.314	1.314	1.314	1892.2	2.6702	2.7126	0.0424	15958.02	15982.02	24.00	22.4	200.7	260
5-May-21	Sunny	26.9	1012.9	1.314	1.314	1.314	1892.2	2.6900	2.7409	0.0509	15838.02	15862.02	24.00	26.9	200.7	260
11-May-21	Sunny	29.2	1008.4	1.314	1.314	1.314	1892.2	2.6944	2.7247	0.0303	15862.02	15886.02	24.00	16.0	200.7	260
17-May-21	Sunny	30.4	1009.8	1.314	1.314	1.314	1892.2	2.6681	2.6980	0.0299	15886.02	15910.02	24.00	15.8	200.7	260
22-May-21	Sunny	30.5	1007.0	1.314	1.314	1.314	1892.2	2.6744	2.7018	0.0274	15910.02	15934.02	24.00	14.5	200.7	260
28-May-21	Sunny	30.6	1009.6	1.314	1.314	1.314	1892.2	2.6563	2.6765	0.0202	15934.02	15958.02	24.00	10.7	200.7	260
3-Jun-21	Sunny	30.3	1006.3	1.314	1.314	1.314	1892.2	2.6685	2.7225	0.0540	16102.02	16126.02	24.00	28.5	200.7	260
9-Jun-21	Rainy	27.9	1007.2	1.314	1.314	1.314	1892.2	2.6629	2.6851	0.0222	16126.02	16150.02	24.00	11.7	200.7	260
15-Jun-21	Fine	29.6	1009.1	1.314	1.314	1.314	1892.2	2.6863	2.7280	0.0417	16150.02	16174.02	24.00	22.0	200.7	260
19-Jun-21	Sunny	30.6	1004.8	1.314	1.314	1.314	1892.2	2.6989	2.7294	0.0305	16174.02	16198.02	24.00	16.1	200.7	260
25-Jun-21	Cloudy	27.1	1006.3	1.314	1.314	1.314	1892.2	2.6989	2.7294	0.0305	16198.02	16222.02	24.00	16.1	200.7	260
30-Jun-21	Fine	30.1	1006.1	1.314	1.314	1.314	1892.2	2.6788	2.7292	0.0504	16222.02	16246.02	24.00	26.6	200.7	260
6-Jul-21	Fine	29.4	1006.4	1.314	1.314	1.314	1892.2	2.6625	2.6909	0.0284	16246.02	16270.02	24.00	15.0	200.7	260
12-Jul-21	Sunny	30.9	1010.2	1.314	1.314	1.314	1892.2	2.6707	2.6985	0.0278	16270.02	16294.02	24.00	14.7	200.7	260
17-Jul-21	Fine	28.8	1005.8	1.314	1.314	1.314	1892.2	2.6747	2.7050	0.0303	16294.02	16318.02	24.00	16.0	200.7	260
23-Jul-21	Sunny	30.3	998.3	1.314	1.314	1.314	1892.2	2.6667	2.7202	0.0535	16318.02	16342.02	24.00	28.3	200.7	260
29-Jul-21	Cloudy	29.5	1000.1	1.334	1.334	1.334	1921.0	2.6849	2.7243	0.0394	16342.02	16366.02	24.00	20.5	200.7	260
4-Aug-21	Rainy	28.2	995.6	1.334	1.334	1.334	1921.0	2.6759	2.7072	0.0313	16366.02	16390.02	24.00	16.3	200.7	260
10-Aug-21	Rainy	29.0	1005.9	1.334	1.334	1.334	1921.0	2.6922	2.7314	0.0392	16390.02	16414.02	24.00	20.4	200.7	260
16-Aug-21	Cloudy	28.3	1012.5	1.334	1.334	1.334	1921.0	2.6824	2.7133	0.0309	16414.02	16438.02	24.00	16.1	200.7	260
21-Aug-21	Sunny	29.8	1008.6	1.334	1.334	1.334	1921.0	2.6937	2.7333	0.0396	16438.02	16462.02	24.00	20.6	200.7	260
27-Aug-21	Rainy	25.6	1012.0	1.334	1.334	1.334	1921.0	2.6773	2.6953	0.0180	16462.02	16486.02	24.00	9.4	200.7	260
2-Sep-21	Sunny	29.5	1009.0	1.334	1.334	1.334	1921.0	2.6715	2.6927	0.0212	16486.02	16510.02	24.00	11.0	200.7	260
8-Sep-21	Sunny	30.6	1009.4	1.334	1.334	1.334	1921.0	2.6812	2.7100	0.0288	16510.02	16534.02	24.00	15.0	200.7	260
14-Sep-21	Rainy	29.0	1011.5	1.334	1.334	1.334	1921.0	2.6801	2.7355	0.0554	16534.02	16558.02	24.00	28.8	200.7	260
20-Sep-21	Sunny	29.3	1010.4	1.334	1.334	1.334	1921.0	2.6934	2.7254	0.0320	16558.02	16582.02	24.00	16.7	200.7	260
25-Sep-21	Sunny	29.6	1012.8	1.334	1.334	1.334	1921.0	2.6845	2.7108	0.0263	16582.02	16606.02	24.00	13.7	200.7	260
30-Sep-21	Sunny	30.3	1008.1	1.334	1.334	1.334	1921.0	2.6687	2.7511	0.0824	16606.02	16630.02	24.00	42.9	200.7	260

Average for the reporting period (Nov 20 to Sep 21)	31.3
Minimum for the reporting period (Nov 20 to Sep 21)	6.9
Maximum for the reporting period (Nov 20 to Sep 21)	88.4



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



Graphical Presentation of Impact 24-hour TSP Monitoring Results

Project No.: 60307376

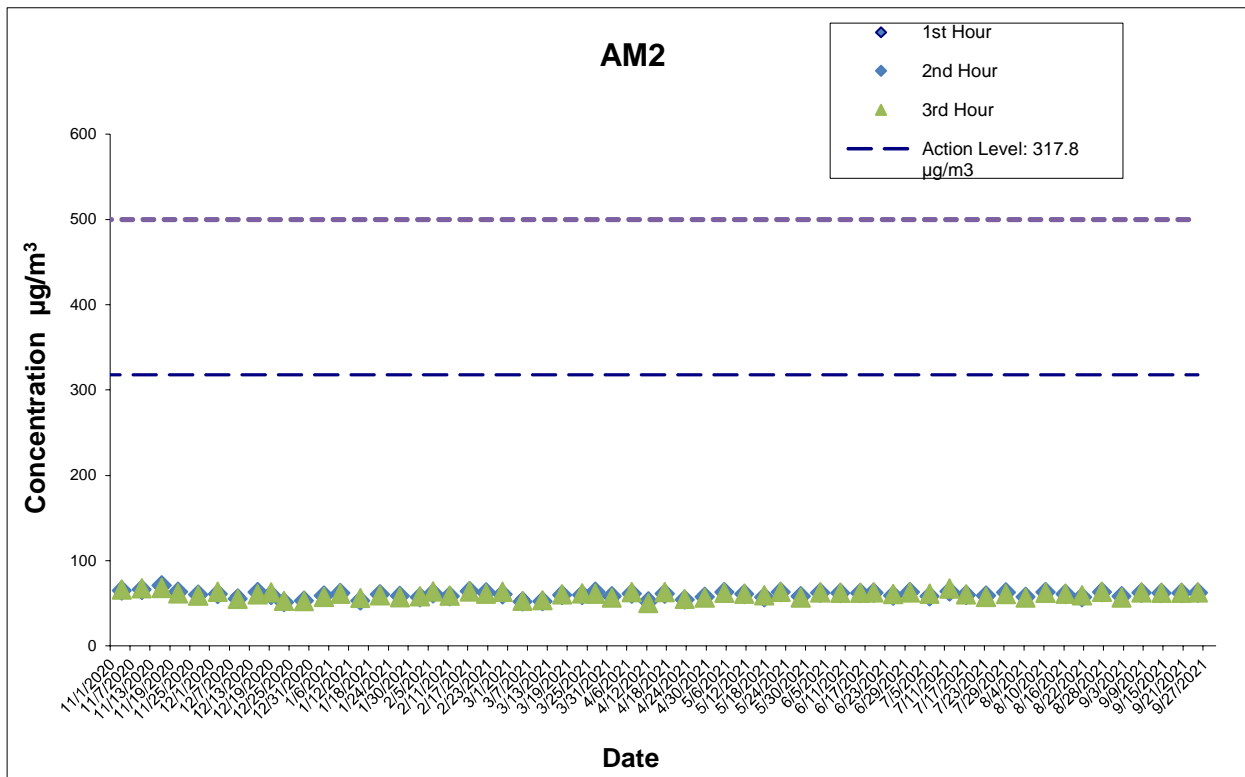
Date: Nov-21

Appendix E

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. ($\mu\text{g}/\text{m}^3$)	2nd Hour Conc. ($\mu\text{g}/\text{m}^3$)	3rd Hour Conc. ($\mu\text{g}/\text{m}^3$)
4-Nov-20	13:15	62.6	65.1	66.3
10-Nov-20	14:30	63.0	66.2	67.5
16-Nov-20	13:05	68.2	71.1	67.9
21-Nov-20	10:45	62.0	63.6	61.7
27-Nov-20	13:05	58.5	60.2	59.0
3-Dec-20	10:20	62.7	61.0	63.5
9-Dec-20	14:45	58.3	55.4	54.9
15-Dec-20	11:45	62.5	63.3	60.6
19-Dec-20	10:35	61.1	59.8	62.8
23-Dec-20	11:30	53.3	51.4	52.8
29-Dec-20	11:30	53.3	53.1	52.4
4-Jan-21	14:00	58.5	59.1	57.4
9-Jan-21	10:15	63.3	61.9	61.4
15-Jan-21	10:10	54.4	53.1	56.2
21-Jan-21	14:45	58.8	60.6	59.4
27-Jan-21	10:00	58.2	58.6	57.3
2-Feb-21	13:35	55.9	57.1	58.4
6-Feb-21	12:20	63.3	61.8	63.9
11-Feb-21	13:05	60.3	58.5	59.1
17-Feb-21	14:55	64.8	64.3	64.0
22-Feb-21	11:00	61.5	62.7	61.3
27-Feb-21	9:45	62.2	60.7	63.5
5-Mar-21	10:35	54.8	51.9	52.7
11-Mar-21	10:30	52.7	52.4	53.4
17-Mar-21	13:00	58.5	59.9	60.6
23-Mar-21	10:00	58.5	59.9	61.8
27-Mar-21	11:05	62.9	63.5	61.4
1-Apr-21	10:00	57.5	58.4	56.6
7-Apr-21	10:00	59.6	61.4	63.3
12-Apr-21	14:00	53.4	52.4	50.1
17-Apr-21	10:06	62.5	61.4	63.1
23-Apr-21	10:00	52.8	54.1	54.9
29-Apr-21	11:05	58.5	57.4	56.6
5-May-21	11:30	62.6	63.2	62.4
11-May-21	10:50	60.7	61.1	61.3
17-May-21	10:00	58.1	57.1	59.4
22-May-21	10:20	62.6	63.2	63.6
28-May-21	10:00	57.7	58.5	56.8
3-Jun-21	14:20	63.2	62.3	62.7
9-Jun-21	13:05	61.4	62.0	62.3
15-Jun-21	11:30	61.1	61.9	62.5
19-Jun-21	10:33	63.1	62.3	62.8
25-Jun-21	10:00	58.4	59.1	61.1
30-Jun-21	10:15	61.6	63.3	62.9
6-Jul-21	10:20	56.0	58.3	61.2
12-Jul-21	13:10	62.2	64.0	67.2
17-Jul-21	10:20	61.1	59.8	60.5
23-Jul-21	10:00	56.8	59.1	57.6
29-Jul-21	10:50	61.7	62.8	60.8
4-Aug-21	11:05	58.5	57.4	56.6
10-Aug-21	11:30	62.6	63.2	62.4
16-Aug-21	10:50	60.7	61.1	61.3
21-Aug-21	10:00	58.1	57.1	59.4
27-Aug-21	10:20	62.6	63.2	63.6
2-Sep-21	10:00	57.7	58.5	56.8
8-Sep-21	14:20	63.2	62.3	62.7
14-Sep-21	13:05	61.4	62.0	62.3
20-Sep-21	11:30	61.1	61.9	62.5
25-Sep-21	10:33	63.1	62.3	62.8
30-Sep-21	10:00	58.4	59.1	61.1
Average for the reporting period (Nov 20 to Sep 21)				60.1
Minimum for the reporting period (Nov 20 to Sep 21)				50.1
Maximum for the reporting period (Nov 20 to Sep 21)				71.1



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



Graphical Presentation of Impact 1-hour TSP Monitoring Results

**APPENDIX H
METEOROLOGICAL DATA FOR THE
REPORTING MONTH**

Appendix F Meteorological Data

November 2020

With the northeast monsoon over southern China generally weaker than normal for most of the time in the month, November 2020 was much warmer than usual in Hong Kong. The monthly mean maximum temperature was 26.4 degrees, 2.3 degrees above the normal figure and the highest on record for November. The monthly mean temperature of 23.5 degrees and mean minimum temperature of 21.7 degrees were respectively 1.7 degrees and 1.9 degrees above their corresponding normal figures and both were the second highest on record for November. Moreover, the autumn mean temperature in Hong Kong for the period from September to November 2020 was 25.8 degrees, 0.8 degrees above the normal figure and one of the fourth warmest autumns on record. The month was also drier than usual with a total rainfall of 5.1 millimetres, about 14 percent of the normal figure of 37.6 millimetres. The accumulated rainfall this year up to November was 2393.5 millimetres, slightly more than the normal figure of 2371.7 millimetres for the same period.

December 2020

The weather for December 2020 was cloudier than usual. The mean amount of cloud in the month was 62 percent, 10 percent above the normal of 52 percent. The mean temperature for December 2020 was 18.1 degrees, 0.2 degrees above the normal figure of 17.9 degrees. The month was also much drier than usual with a total rainfall of only 1.5 millimetres, about 6 percent of the normal figure of 26.8 millimetres. The annual total rainfall in 2020 was 2395.0 millimetres, near the annual normal of 2398.5 millimetres.

January 2021

January 2021 was characterized by colder weather during the first half of the month and relatively milder weather in the latter part. Overall, the month was colder than usual with a mean temperature of 16.2 degrees, 0.3 degrees below the normal figure of 16.5 degrees (or 0.1 degrees below the 1981-2010 normal). With dry winter monsoon dominating over southern China for most of the time in the month, January 2021 was also much sunnier and drier than usual. The monthly total sunshine duration amounted to 217.3 hours, 49 percent above the normal of 145.8 hours (or 52 percent above the 1981-2010 normal). Only traces of rainfall was recorded in the month, making it one of the eight Januaries with traces of rainfall since records began in 1884.

February 2021

With the northeast monsoon over southern China generally weaker than normal for most of the time in the month, February 2021 was much warmer and sunnier than usual in Hong Kong. The monthly mean maximum temperature of 23.5 degrees, monthly mean temperature of 19.8 degrees and monthly mean minimum temperature of 17.5 degrees were 4.1 degrees, 2.7 degrees and 2.2 degrees above their corresponding normals (or 4.6 degrees, 3.0 degrees and 2.5 degrees above their corresponding 1981-2010 normals) and respectively the second, third and fourth highest on record for February. The total duration of bright sunshine in the month was 205.1 hours, more than twice of the normal of 101.7 hours (or 110.9 hours above the 1981-2010 normal of 94.2 hours) and the fourth highest on record for February. Mainly attributing to the exceptional warm and sunny weather in February 2021, the winter from December 2020 to February 2021 was warmer than usual in Hong Kong. The mean temperature of 18.0 degrees was one of the seventh highest on record for the same period. The monthly rainfall was 62.1 millimetres, about 60 percent above the normal of 38.9 millimetres (or 14 percent above the 1981-2010 normal of 54.4 millimetres) in February. The accumulated rainfall recorded in the first two months of the year was 62.1 millimetres, a deficit of 14 percent compared to the normal of 71.9 millimetres (or 21 percent below the 1981-2010 normal of 78.9 millimetres) for the same period.

March 2021

With relatively less cold air outbreaks from the north, March 2021 continued to be exceptionally warm in Hong Kong. The monthly mean maximum temperature of 24.8 degrees, monthly mean temperature of 22.0 degrees and monthly mean minimum temperature of 20.2 degrees were 2.9 degrees, 2.5 degrees and 2.6 degrees above their corresponding normals (or 3.4 degrees, 2.9 degrees and 3.0 degrees above their corresponding 1981-2010 normals) and all of them were the highest of the correspondingly monthly mean values of March on record. The month was also much drier than usual with a total rainfall of only 3.5 millimetres, about 5 percent of the normal figure of 75.3 millimetres (or 4 percent of the 1981-2010 normal of 82.2 millimetres) and the fourth lowest on record for March. The accumulated rainfall recorded in the first three months of the year was 65.6 millimetres, a deficit of 55 percent compared to the normal of 147.4 millimetres (or 59 percent below the 1981-2010 normal of 161.3 millimetres) for the same period.

April 2021

With relatively less cold air intrusion from the north, April 2021 continued to be much warmer than usual in Hong Kong. The monthly mean minimum temperature of 22.4 degrees, monthly mean maximum temperature of 27.0 degrees and monthly mean temperature of 24.1 degrees were 1.3 degrees, 1.4 degrees and 1.1 degrees above their corresponding normals (or 1.6 degrees, 2.0 degrees and 1.5 degrees above their corresponding 1981-2010 normals) and respectively the fifth, seventh and ninth highest on record for April. With the dominance of upper-air anticyclone over southern China for most of the time in the month, April 2021 was also much drier than usual with a total rainfall of only 32.5 millimetres, about 21 percent of the normal figure of 153.0 millimetres (or 19 percent of the 1981-2010 normal of 174.7 millimetres). The accumulated rainfall recorded in the first four months of the year was 98.1 millimetres, a deficit of 67 percent when compared to the normal of 300.4 millimetres (or 71 percent below the 1981-2010 normal of 336.1 millimetres) and the tenth lowest on record for the same period.

May 2021

Mainly attributing to the stronger than usual subtropical ridge over southern China, May 2021 was the hottest May in Hong Kong on record. The monthly mean temperature of 29.0 degrees and monthly mean minimum temperature of 27.0 degrees were 2.7 degrees and 2.5 degrees above their corresponding normals (or 3.1 degree and 2.9 degrees above their corresponding 1981-2010 normals) and both were the highest on record for May. The mean maximum temperature of 32.1 degrees was 3.3 degrees above normal (or 3.7 degrees above the 1981-2010 normals) and the second highest on record for May. Together with the exceptionally warm weather in March and April 2021, Hong Kong experienced the warmest spring on record from March to May 2021. The mean temperature of 25.0 degrees, mean minimum temperature of 23.2 degrees and mean maximum temperature of 28.0 degrees for March to May 2021 were all the highest on record for the same period. There were in total 14 hot nights in the month including 6 consecutive hot nights that started from 16 May, both breaking the records for May. The month was also much drier than usual with a total rainfall of only 65.0 millimetres, about 22 percent of the normal figure of 290.6 millimetres (or 21 percent of the 1981-2010 normal of 304.7 millimetres). The accumulated rainfall recorded in the first five months of the year was 163.1 millimetres, a deficit of 72 percent when compared to the normal of 590.9 millimetres (or 75 percent below the 1981-2010 normal of 640.8 millimetres) and the second lowest on record for the same period.

June 2021

June 2021 was marked by the long awaited rainy weather brought by tropical cyclone Koguma, troughs of low pressure and the active southwesterly airstream. The monthly rainfall of June 2021 was 628.0 millimetres, about 28 percent above the normal of 491.5 millimetres (or 38 percent above the 1981-2010 normal of 456.1 millimetres). The abundant rainfall in the month alleviated the very dry condition of Hong Kong in the last few months. The accumulated rainfall recorded in the first half of the year was 791.1 millimetres, a deficit of 27 percent compared to the normal of 1082.5 millimetres (or 28 percent below the 1981-2010 normal of 1096.9 millimetres). The month was also warmer than usual with a mean temperature of 28.8 degrees, 0.5 degrees above the normal figure of 28.3 degrees (or 0.9 degrees above the 1981-2010 normals). Mainly attributing to the well above normal temperatures in the previous four months, the first half of this year from January to June 2021 was exceptionally warm. The mean maximum temperature of 26.3 degrees, mean temperature of 23.3 degrees and mean minimum temperature of 21.3 degrees were all the highest on record for the same period.

July 2021

Owing to the stronger than normal upper-air anticyclone over southern China, July 2021 was unusually hot in Hong Kong. The monthly mean minimum temperature of 27.7 degrees, monthly mean maximum temperature of 32.6 degrees and monthly mean temperature of 29.7 degrees were 0.8 degrees, 1.0 degree and 0.8 degrees above their corresponding normals (or 0.9 degrees, 1.2 degrees and 0.9 degrees above their corresponding 1981-2010 normals) and respectively the second, third and fourth highest on record for July. The monthly rainfall was 379.5 millimetres, slightly below the normal figure of 385.8 millimetres (or slightly above the 1981-2010 normal of 376.5 millimetres). The accumulated rainfall recorded in the first seven months of the year was 1170.6 millimetres, about 20 percent below the normal figure of 1468.2 millimetres (or 21 percent below the 1981-2010 normal of 1473.3 millimetres) for the same period.

August 2021

August 2021 was characterized by cloudier than usual weather with localized heavy rain over parts of the New Territories. The mean amount of cloud in the month was 77 percent, 7 percent above the normal of 70 percent. As for monthly rainfall, while over 600 millimetres of rainfall were recorded in parts of the North District of the New Territories, the monthly rainfall recorded at the Observatory was 350.5 millimetres, about 23 percent below the normal figure of 453.2 millimetres (or 19 percent below the 1981-2010 normal of 432.2 millimetres). The accumulated rainfall recorded in the first eight months of the year was 1521.1 millimetres, about 21 percent below the normal figure of 1921.5 millimetres (or 20 percent below the 1981-2010 normal of 1905.5 millimetres) for the same period. The monthly mean temperature of 28.8 degrees was near the normal figure of 28.7 degrees (or 0.2 degrees above the 1981-2010 normal). Mainly attributing to the exceptionally hot weather in July 2021, the summer of this year from June to August was much hotter than usual. The mean temperature of 29.1 degrees was the sixth highest on record for the same period.

September 2021

Mainly attributing to the stronger than usual subtropical ridge over southern China, September 2021 was the hottest September in Hong Kong on record. The monthly mean maximum temperature of 32.8 degrees, monthly mean temperature of 29.7 degrees and monthly mean minimum temperature of 27.8 degrees were 2.3 degrees, 1.8 degrees and 1.7 degrees above their corresponding normals (or 2.7 degrees, 2.0 degrees and 2.0 degrees above their corresponding 1981-2010 normals) and all of them were the highest on record for September. There were in total 15 very hot days and 11 hot nights in the month, both breaking the records for September. Moreover, from January to September, the numbers of very hot days and hot nights so far in 2021 already reached 53 days and 57 days respectively, both breaking the previous records set in 2020. September 2021 was also much drier than usual with a total rainfall of 129.6 millimetres, about 40 percent of the normal figure of 321.4 millimetres (or 40 percent of the 1981-2010 normal of 327.6 millimetres). The accumulated rainfall up to September this year was 1650.7 millimetres, a deficit of 26 percent compared with the normal of 2242.8 millimetres (or 26 percent below the 1981-2010 normal of 2233.1 millimetres) for the same period.

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

Location : M2 (West Tai Wo - Free Field)

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

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
4-Nov-20	14:05	66.8	67.5	64.0	75	N
10-Nov-20	14:30	66.2	67.5	63.0	75	N
16-Nov-20	14:10	65.4	66.5	62.5	75	N
27-Nov-20	13:45	65.3	66.5	62.0	75	N
3-Dec-20	11:15	66.3	68.5	65.0	75	N
9-Dec-20	14:00	66.9	67.2	66.5	75	N
15-Dec-20	14:20	67.8	69.0	65.5	75	N
23-Dec-20	10:30	56.8	57.1	56.4	75	N
29-Dec-20	10:40	56.1	56.3	55.9	75	N
4-Jan-21	14:50	66.7	67.5	65.5	75	N
15-Jan-21	11:00	65.9	66.5	61.5	75	N
21-Jan-21	15:50	64.9	66.0	62.0	75	N
27-Jan-21	9:20	66.3	68.4	64.8	75	N
2-Feb-21	14:20	65.4	66.5	62.1	75	N
11-Feb-21	14:00	66.4	67.5	63.0	75	N
17-Feb-21	13:30	67.1	67.9	66.3	75	N
22-Feb-21	10:50	66.9	68.5	64.2	75	N
5-Mar-21	11:30	59.7	60.9	58.9	75	N
11-Mar-21	14:00	59.2	59.9	58.1	75	N
17-Mar-21	15:14	67.1	68.5	64.5	75	N
23-Mar-21	10:45	65.8	67.1	64.0	75	N
1-Apr-21	10:50	62.5	66.5	65.7	75	N
7-Apr-21	10:45	66.0	67.5	64.0	75	N
12-Apr-21	11:00	58.9	60.4	59.7	75	N
23-Apr-21	10:48	66.4	68.2	63.5	75	N
29-Apr-21	13:00	63.4	64.0	61.0	75	N
5-May-21	14:05	67.1	68.5	64.5	75	N
11-May-21	13:05	68.1	69.5	65.0	75	N
17-May-21	10:50	64.7	66.5	61.0	75	N
28-May-21	11:00	66.3	67.0	63.0	75	N
3-Jun-21	13:30	65.2	67.0	63.6	75	N
9-Jun-21	14:05	66.4	68.0	63.7	75	N
15-Jun-21	13:35	67.3	69.0	65.2	75	N
25-Jun-21	10:50	64.1	65.3	61.2	75	N
30-Jun-21	11:00	63.6	65.1	62.2	75	N
6-Jul-21	11:05	62.9	64.1	61.7	75	N
12-Jul-21	14:10	69.2	71.3	67.0	75	N
23-Jul-21	10:45	68.4	70.3	66.8	75	N
29-Jul-21	14:05	67.9	69.5	65.2	75	N
4-Aug-21	14:30	66.0	67.7	64.0	75	N
10-Aug-21	11:20	67.3	69.0	65.0	75	N
16-Aug-21	10:00	66.4	67.9	65.9	75	N
27-Aug-21	11:30	66.3	67.8	63.9	75	N
2-Sep-21	15:10	66.7	68.3	64.4	75	N
8-Sep-21	14:00	65.6	66.9	63.4	75	N
14-Sep-21	15:20	65.9	67.6	63.6	75	N
20-Sep-21	13:35	65.3	66.7	62.4	75	N
30-Sep-21	13:25	65.4	66.8	63.1	75	N
Minimum for Nov 20 to Sep 21		56.1	56.3	55.9		
Maximum for Nov 20 to Sep 21		69.2	71.3	67.0		
Average for Nov 20 to Sep 21		65.9	67.3	63.8		

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

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
4-Nov-20	13:25	60.2	61.5	56.0	70	N
10-Nov-20	13:05	59.8	61.0	56.0	70	N
16-Nov-20	13:05	65.4	66.5	62.5	70	N
27-Nov-20	13:05	60.2	61.5	55.0	70	N
3-Dec-20	10:25	63.9	65.5	62.0	70	N
9-Dec-20	14:45	65.8	66.7	65.3	70	N
15-Dec-20	15:15	63.9	65.5	61.5	70	N
23-Dec-20	17:15	62.1	62.5	60.1	70	N
29-Dec-20	11:20	59.9	60.2	58.8	70	N
4-Jan-21	14:00	61.0	62.5	59.0	70	N
15-Jan-21	10:10	60.3	61.5	57.0	65	N
21-Jan-21	14:45	60.6	61.5	56.5	70	N
27-Jan-21	10:00	64.2	66.5	61.9	70	N
2-Feb-21	13:35	65.4	66.5	62.1	70	N
11-Feb-21	13:05	60.1	61.0	56.0	70	N
17-Feb-21	15:00	60.3	62.0	58.1	70	N
22-Feb-21	10:05	63.2	64.1	60.6	70	N
5-Mar-21	10:30	61.4	62.9	60.3	70	N
11-Mar-21	10:35	61.4	62.1	60.8	70	N
17-Mar-21	13:00	60.2	61.0	55.5	70	N
23-Mar-21	10:45	65.8	67.1	64.0	70	N
1-Apr-21	10:00	55.0	61.0	60.0	70	N
7-Apr-21	10:00	61.1	62.0	56.0	70	N
12-Apr-21	14:00	62.4	64.1	61.2	70	N
23-Apr-21	10:00	65.8	66.3	62.9	70	N
29-Apr-21	11:05	59.5	60.5	56.5	70	N
5-May-21	15:00	63.2	64.5	61.0	70	N
11-May-21	10:55	63.6	65.0	61.5	70	N
17-May-21	10:00	60.2	61.0	57.0	70	N
28-May-21	10:00	60.1	61.0	56.0	70	N
3-Jun-21	14:20	61.3	62.0	59.0	70	N
9-Jun-21	13:10	61.8	63.3	59.6	65	N
15-Jun-21	14:30	63.5	65.3	61.8	65	N
25-Jun-21	10:00	58.8	59.3	54.0	65	N
30-Jun-21	10:15	59.1	60.4	64.4	70	N
6-Jul-21	11:05	62.9	64.1	61.7	70	N
12-Jul-21	14:10	69.2	71.3	67.0	70	N
23-Jul-21	10:45	68.4	70.3	66.8	70	N
29-Jul-21	14:05	67.9	69.5	65.2	70	N
4-Aug-21	15:20	59.7	61.0	56.7	70	N
10-Aug-21	10:30	62.9	64.4	59.9	70	N
16-Aug-21	10:50	68.2	69.9	66.7	70	N
27-Aug-21	10:40	62.2	64.0	60.1	70	N
2-Sep-21	14:15	62.2	63.8	60.0	70	N
8-Sep-21	14:45	63.2	63.4	61.9	70	N
14-Sep-21	14:05	61.4	63.0	59.0	70	N
20-Sep-21	13:10	60.6	62.0	58.0	70	N
30-Sep-21	13:05	60.1	61.3	56.0	70	N
Minimum for Nov 20 to Sep 21		55.0	59.3	54.0		
Maximum for Nov 20 to Sep 21		69.2	71.3	67.0		
Average for Nov 20 to Sep 21		63.3	65.5	61.7		

* +3dB(A) Façade effect correction included

^ 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	10
	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		
	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.	Closed		

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

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

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
25 February 2018 (Referred by the Contractor on 1 March 2018)	<p>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.</p> <p>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.</p>	Closed		
28 September 2019 (Referred by the EPD on 28 October 2019)	<p>The EPD received a complaint on 28 October 2019. The complaint was referred to the Environmental Team by the Contractor on 28 October 2019.</p> <p>The complainant was regarded to the use of powered mechanical equipment not in accordance with the conditions stipulated in the Construction Noise Permit (CNP) - GW-RN0602-19 in Pak Wo Road near Fanling Highway on 24 September 2019.</p> <p>The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.</p>	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	28 October 2019 (Referred by the EPD on 14 November 2019)	The Buildings Department received a complaint on 28 October 2019 through email. The complaint was referred to Environmental Team of HY/2012/06 on 14 November 2019. The complainant complained about dust and noise nuisance caused continuously by road construction works at Tai Wo Service Road West.	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

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

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