

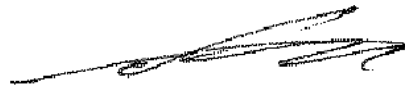
Civil Engineering and Development Department

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

**Monthly EM&A Report
(Version 1.0)**

June 2020

Approved By



Mr. KS Lee
Environmental Team Leader

REMARKS:

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

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 44th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in June 2020.
2. During the reporting month, the major site activities undertaken in the reporting month included:

Portion A	-	General Cleaning
Portion B	-	E&M Works for Subway A, Modification of Existing Carriageway
Portion C	-	General Cleaning, Installation of Water Point
Portion D	-	Installation of Traffic Aids, General Cleaning, CCTV for drainage pipe, Installation of Road Lighting
Portion E	-	Realignment and resurfacing Mai Po Lung Road, Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Installation of Road Lighting
Portion F	-	Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Construction of Footpath, Construction of Drainage Pipe / Channel, Installation of Traffic Aids, CCTV for Drainage Pipe, Installation of Road Lighting
Portion G	-	General Cleaning
Portion H	-	Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Construction of Drainage Pipe / Channel, Construction of Cross Ducting for Traffic Signal, Realignment of Castle Peak Road, Installation of Road Lighting
Portion I	-	Modification of Carriageway and Removal of Temporary Steel Bridge of TTA, Installation of Traffic Aids
Portion J	-	Construction of Drainage / Channel, Construction of Road Kerb, Laying Bituminous Pavement for Cycle Track, Installation of Bicycle Parapet and Type II Railing, Installation of Road Lighting
Portion K	-	General Cleaning, Installation of Road Lighting
Portion M	-	Installation of Lighting for Bridge E, Installation of Road Lighting
Portion N	-	Construction of Road Kerb, Installation of Traffic Aids

Environmental Monitoring Works

3. Environmental monitoring for the Project shall be performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
4. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table I**.

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

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
Noise	0	0	N/A

Key Information in the Reporting Month

5. Summary of key information in the reporting month is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Month

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

No complaint was received in this reporting month.

Environmental License and Permits

6. Licenses/Permits granted to the Project include:
- Environmental Permits (EP) for the Project,
 - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
 - EP-501/2015 issued on 2 September 2015
 - Billing Account for Waste Disposal (Acc No.: 7025411)
 - Discharge License
 - WT00028748-2017, WT00027672-2017, WT00027661-2017, WT00027606-2017, WT00027510-2017, WT00027509-2017, WT00027603-2017, WT00027605-2017, WT00027508-2017, WT00027834-2017, WT00028431-2017, WT00027607-2017, WT00028850-2017, WT00030236-2018, WT00034612-2019
 - Chemical Waste Producers
 - No.: WPN5213-524-K3261-01

Future Key Issues

7. The future key environmental issues in the coming months include:
- Wastewater and runoff generation on-site;
 - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for excavation works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
 - Water spraying for dust generating activities and on haul road;
 - Proper storage of construction materials on-site;
 - Storage of chemicals/fuel and chemical waste/waste oil on-site;
 - Accumulation of general refuse and construction waste on-site; and
 - Protection measures for retained trees on-site.

1 INTRODUCTION

Background

- 1.1 “Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River” (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.
- 1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.
- 1.3 An Environmental Review (ER) Report of the “Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2” had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.
- 1.4 “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called the “Project”) covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing – Kuly Joint Venture (hereinafter called the “Contractor”) for “Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works”. The site location and work programme are shown in **Figure 1a-1h** and **Appendix A** respectively.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23rd November 2016. This is the 44th Monthly EM&A Report summarizing the EM&A works for the Project during June 2020.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent – Civil Engineering and Development Department (CEDD)
 - Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings)
 - Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR)
 - Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.7 The Organizational Structure for Environmental Management is shown in **Figure 3**.

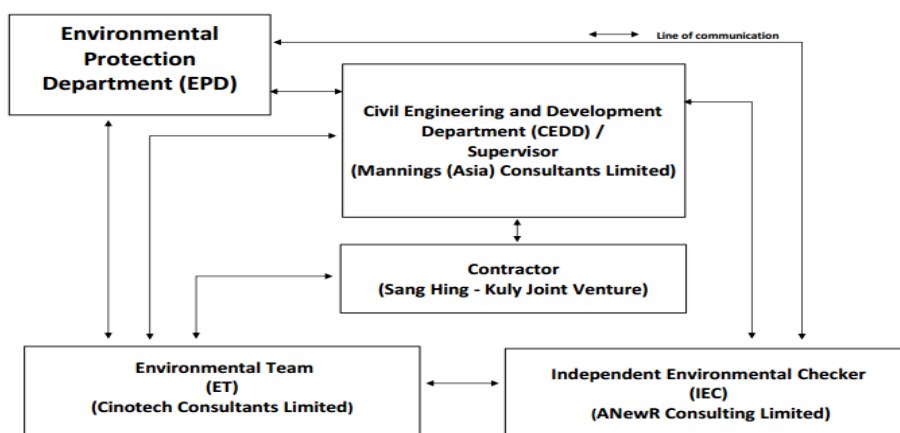


Figure 3 Organization Structure (Environmental Aspects)

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

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Cinotech	Environmental Team	Mr. KS Lee	2151 2091	3107 1388
		Ms. Betty Choi	2151 2072	
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Ma Kin Man	9552 1734	2890 8205

Construction Activities undertaken during the Reporting Month

1.9 The major site activities undertaken in the reporting month included:

- Portion A - General Cleaning
- Portion B - E&M Works for Subway A, Modification of Existing Carriageway
- Portion C - General Cleaning, Installation of Water Point
- Portion D - Installation of Traffic Aids, General Cleaning, CCTV for drainage pipe, Installation of Road Lighting
- Portion E - Realignment and resurfacing Mai Po Lung Road, Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Installation of Road Lighting

-
- | | |
|-----------|--|
| Portion F | - Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Construction of Footpath, Construction of Drainage Pipe / Channel, Installation of Traffic Aids, CCTV for Drainage Pipe, Installation of Road Lighting |
| Portion G | - General Cleaning |
| Portion H | - Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Construction of Drainage Pipe / Channel, Construction of Cross Ducting for Traffic Signal, Realignment of Castle Peak Road, Installation of Road Lighting |
| Portion I | - Modification of Carriageway and Removal of Temporary Steel Bridge of TTA, Installation of Traffic Aids |
| Portion J | - Construction of Drainage / Channel, Construction of Road Kerb, Laying Bituminous Pavement for Cycle Track, Installation of Bicycle Parapet and Type II Railing, Installation of Road Lighting |
| Portion K | - General Cleaning, Installation of Road Lighting |
| Portion M | - Installation of Lighting for Bridge E, Installation of Road Lighting |
| Portion N | - Construction of Road Kerb, Installation of Traffic Aids |

1.10 Inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.9	Noise, dust impact, water quality and waste generation	<ul style="list-style-type: none"> • Sufficient watering of the works site with active dust emitting activities • Properly cover the stockpiles • On-site waste sorting and implementation of trip ticket system • Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge • Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall • Use of quiet plant and well-maintained construction plant • Provide movable noise barrier • Proper wheel washing for construction vehicles before leaving the site • Provide sufficient mitigation measures as recommended in Approved EM&A Manual/Lease requirement

Summary of EM&A Requirements

1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event and Action Plans;
- Environmental mitigation measures, as recommended in the EIA Reports, Environmental Review Reports and EM&A Manuals

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in June 2020.

2 AIR QUALITY

Monitoring Requirements

- 2.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.
- 2.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

3 WATER QUALITY

Monitoring Requirements

- 3.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no water quality monitoring is required for the Project.
- 3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

4 NOISE

Monitoring Requirements

- 4.1 In accordance with approved EM&A Manuals for Stage 1 works in Year 2015, no noise impact monitoring is required for Stage 1 works of the Project.
- 4.2 According to approved EM&A Manual for Stage 2 works (Year 2015), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities under the Stage 2 works of the Project. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix B shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

- 4.3 Noise monitoring was conducted at 6 designated monitoring stations (N1, N2, N3, N5, N6 and N7) in the reporting month. **Figures 2a – 2c** show the locations of these stations.

Table 4.1 Noise Monitoring Stations

Monitoring Stations	Locations	Location of Measurement
N1	HKMLC Wong Chan Sook Ying Memorial School	Rooftop (about 5/F) area
N2	Bethel High School	Rooftop (about 4/F) area
N3	No. 159 Mai Po San Tsuen	G/F area
N5	Block 2, Dills Corner Garden	G/F area
N6	Home of Loving Faithfulness	Rooftop (about 3/F) area
N7	Village House in Shek Wu Wai	G/F area

Monitoring Equipment

- 4.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications.
- 4.5 Acoustic Calibrator was used to check the accuracy of the sound level meter. The calibrators generate a continuous and highly stable sound pressure level at known frequency of 1 kHz that also complied with IEC 942: 1988 Class 1 specifications. **Table 4.2** summarizes the noise monitoring equipment in reporting period. Copies of calibration certificates are provided in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model No.	Qty.
Integrating Sound Level Meter/ Sound & Vibration Analyser	SVAN 957	1
Acoustic Calibrator	SV30A	1

Monitoring Parameters and Frequency

- 4.6 **Table 4.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 4.3 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Parameter	Period	Frequency	Measurement
N1	L _{eq} (30 min.) dB(A) L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade
N2				Façade
N3				Free Field
N5				Free Field
N6				Façade
N7				Free Field

Monitoring Methodology and QA/QC Procedures

- 4.7 The monitoring procedures are as follows:

- The monitoring station were normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB (A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting : A
 - Time weighting : Fast
 - Measurement time : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- At the end of the monitoring period, the L_{eq}, L₉₀ and L₁₀ were recorded. In addition, noise sources were recorded on a standard record sheet.
- Noise measurement would be paused temporarily during periods of high intrusive noise if possible and observation would be recorded when intrusive noise was not avoided.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

- 4.8 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

- 4.9 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 4.10 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 4.11 All construction noise monitoring were conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in the reporting month is shown in **Appendix F**.
- 4.12 The baseline noise level and the Noise Limit Level at each designated noise monitoring stations are presented in **Table 4.5**.
- 4.13 Noise monitoring results and graphical presentations are shown in **Appendix E**.
- 4.14 The other noise sources identified which might affect the noise monitoring results at the designated noise monitoring stations are as follows:

Table 4.4 Other Noise Sources Identified Which Might Affect the Noise Monitoring Results

Monitoring Stations	Locations	Other Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities
N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities at workshops near the village house

Table 4.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)
N1	62.2 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)
N2	55.2 (at 0700 – 1900 hrs on normal weekdays)	
N3	68.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N5	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N6	72.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N7	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)

(*) Noise Limit Level is 65 dB (A) during school examination periods.

5 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

- 5.1 The EM&A data was compared with the predictions in EIA Report (Year 2009) and Environmental Review Report (ERR) for Stage 2 Works (Year 2015) as summarized in **Table 5.1**.

Table 5.1 Comparison of Noise Monitoring Data with Predictions in EIA Report and ERR

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (June 20), Leq (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 ⁽¹⁾	53.3 - 58.6
N2 – Bethel High School	57-64	64 ⁽¹⁾	47.6 - 54.7
N3 – No. 159 Mai Po San Tsuen	70-73	74 ⁽²⁾	65.9 - 70.3
N5 – Block 2, Dills Corner Garden	73-75	75 ⁽²⁾	61.6 - 68.6
N6 – Home of Loving Faithfulness	64-73	74 ⁽¹⁾	58.7 - 72
N7 – Village House in Shek Wu Wai	N/A ⁽³⁾	70 ⁽²⁾	54.4 - 70.5

Remark:

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

(2) With sub-grouping of construction activities

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

- 5.2 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results at N1, N3 and N6 were slightly lower range of the predicted mitigated construction noise levels in the EIA Report. The results at N2 and N5 were lower the range of the predicted mitigated construction noise levels in the EIA Report.

When comparing the noise monitoring results to the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works, the results at monitoring stations N1, N2, N3, N5 and N6 were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works. The results at monitoring stations N7 was slightly lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works.

6 ECOLOGY AND FISHERIES

- 6.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, no specific ecological or fisheries monitoring is required during the construction phase of the Project.
- 6.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of ecology and fisheries mitigation measure. The summaries of site audits are attached in **Appendix G**.

7 LANDSCAPE AND VISUAL IMPACT

- 7.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, regular audits should be carried out to ensure all the recommended landscape and visual mitigation measures in EIA Report, Environmental Review Reports and EM&A Manuals were effectively implemented.
- 7.2 ET Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measure. The summaries of site audits are attached in **Appendix G**.

8 ENVIRONMENTAL AUDIT

Site Audits

- 8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.
- 8.2 Site audits were conducted on 3, 11, 17, 26 and 30 June 2020 in the reporting month. IEC joint site inspection was conducted on 11 June 2020. No non-compliance was observed during the site audit.

Review of Environmental Monitoring Procedures

- 8.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Statues of Environmental Licensing and Permitting8.4 All permits/licenses obtained for the Project are summarized in **Table 8.1**.**Table 8.1 Summary of Environmental Licensing and Permit Status**

Permit No.	Valid Period		Details	Status
	From	To		
Environmental Permit (EP)				
EP-450/2013/A	25/08/2015	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 1	Valid
EP-501/2015	02/09/2015	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Billing Account for Construction Waste Disposal				
A/C No.: 7025411	N/A	N/A	Billing Account for construction waste disposal under Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Valid
Effluent Discharge License				
WT00027672-2017	28/3/2017	31/3/2022	Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain	Valid
WT00027661-2017	28/3/2017	31/3/2022		
WT00027606-2017	27/3/2017	31/3/2022		
WT00027510-2017	27/3/2017	31/3/2022		
WT00027509-2017	20/3/2017	31/3/2022		
WT00027603-2017	27/3/2017	31/3/2022		
WT00027508-2017	20/3/2017	31/3/2022		
WT00027605-2017	27/3/2017	31/3/2022		
WT00027607-2017	27/3/2017	31/3/2022		
WT00027834-2017	13/4/2017	30/4/2022		
WT00028431-2017	22/6/2017	30/6/2020		
WT00028748-2017	17/08/2017	31/08/2022		
WT00028850-2017	14/08/2017	31/08/2022		
WT00030236-2018	7/02/2018	28/02/2022		
WT00034612-2019	28/11/2019	31/7/2024		
Registration of Chemical Waste Producer				
No.:WPN5213-524-K3261-01	--	N/A	Registration of chemical waste producer for chemical waste produced during construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid

Status of Waste Management

- 8.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix K**.
- 8.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

- 8.7 According to the Environmental Review Reports, Environmental Permits and the EM&A Manuals of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix I**.
- 8.8 During site inspections in the reporting month, no non-conformance was identified. The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 8.2**. Refer to **Appendix G** for the site inspection checklists in the reporting month.

Table 8.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	14 – 27 May 2020	Construction waste and Standing water should be avoided at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 June 2020.
	26 Jun 2020	Sandbags should be provided to prevent exposed earth into the drainage at Portion H.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 June 2020.
<i>Air Quality</i>	16 Apr – 3 Jun 2020	The public road around the site entrance should be kept clean at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 11 June 2020.
	6 May – 3 Jun 2020	Stockpile of dusty material should be covered at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 11 June 2020.
	3 – 11 Jun 2020	Stockpile of dusty material should be covered by tarpaulin at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 June 2020.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste/ Chemical Management</i>	24 Apr – 11 Jun 2020	Accumulation of general refuse should be avoided at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 June 2020.
	14 May – 30 Jun 2020	Accumulation of construction waste should be avoided at Portion E.	Follow up actions will be reported in the next month.

Parameters	Date	Observations and Recommendations	Follow-up
	27 May – 3 Jun 2020	Drip tray should be provided to store chemical at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 11 June 2020.
	3 – 26 Jun 2020	Drip tray should be provided to store chemical at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 June 2020.
	26 Jun 2020	Drip tray should be provided by contractor to prevent chemical leakage at Portion H.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 June 2020.
	26 – 30 Jun 2020	Drip tray should be provided by contractor to prevent chemical leakage at Portion E.	Follow up actions will be reported in the next month.
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Permits/Licenses</i>	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

8.9 The Event and Action Plan for noise is presented in **Appendix H**.

Construction Noise

8.10 No Action/Limit Level exceedance was recorded in the reporting month.

Record of Complaint, Warning, Notification of any Summons and Successful Prosecution

8.11 The record of all environmental complaints, warnings, summons and notifications of successful prosecution for the Project is presented in **Appendix J**.

9 FUTURE KEY ISSUES

9.1 Major site activities undertaken for the coming months include:

Portion D

1. Modification Works
2. Fencing along Phase 1 Cargo
3. Lighting Earth Pit and Pillar Box
4. General Cleaning
5. Installation of Road Lighting
6. CCTV for drainage pipe

Portion E

1. Modification Works
2. Laying Bitumen near San Tam Road
3. Realignment and resurfacing Mai Po Lung Road
4. Installation of Bicycle Parapet and Railing
5. Laying Bituminous for Cycle Track
6. Installation of Road Lighting

Portion F

1. Construction of Road Kerb
2. Laying Bituminous for Cycle Track
3. Installation of Bicycle Parapet and Railing
4. Construction of Footpath
5. Construction of Drainage Pipe / Channel
6. Installation of Traffic Aids
7. CCTV for Drainage Pipe
8. Installation of Road Lighting

Portion G

1. General Cleaning

Portion H

1. Painting the Colour Dressing and Road Marking for DW1 & DW2
2. Laying Bituminous for Cycle Track
3. Installation of Bicycle Parapet and Railing
4. Construction of Drainage Pipe / Channel
5. Construction of Cross Ducting for Traffic Signal
6. Realignment of Castle Peak Road
7. Installation of Road Lighting

Portion I

1. Modification of Carriageway and Removal of Temporary Steel Bridge of TTA
2. Installation of Traffic Aids
3. Installation of Bicycle Parapet and Railing
4. Construction of Drainage Pipe / Channel

Portion J

1. Construction of Drainage / Channel
2. Construction of Road Kerb
3. Laying Bituminous Pavement for Cycle Track
4. Installation of Bicycle Parapet and Type II Railing
5. Installation of Road Lighting

Portion K

1. Modification Works
2. General Cleaning
3. Installation of Road Lighting

Portion M

1. Modification Works
2. Installation of Lighting for Bridge E
3. Installation of Road Lighting

Portion N

1. Construction of Road Kerb
2. Installation of Traffic Aids

9.2 Key environmental issues in the coming months include:

- Wastewater and runoff generation on-site;
- Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
- Review and implementation of temporary drainage system for the surface runoff;
- Noise from operation of the equipment, especially for excavation works and machinery on-site;
- Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
- Water spraying for dust generating activities and on haul road;
- Proper storage of construction materials on-site;
- Storage of chemicals/fuel and chemical waste/waste oil on-site;
- Accumulation of general refuse and construction waste on-site; and
- Protection measures for retained trees.

- 9.3 The tentative program of major site activities and the impact prediction and control measures for the coming months, i.e. July to August 2020, are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 9.1	Air quality impact (dust)	(a) Frequent watering of haul road and unpaved/exposed areas; (b) Frequent watering or covering stockpiles with tarpaulin or similar means; and (c) Watering of any earth moving activities.
	Water quality impact (surface run-off)	(d) Diversion of the collected effluent to de-silting facilities for treatment in compliance with valid Discharge License prior to discharge to public storm water drains; (e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; (f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and (g) Provision of measures to prevent discharge into the stream.
	Noise impact	(h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; (i) Controlling the number of plants use on site; (j) Regular maintenance of machines (k) Use of quiet PME's on-site; and (l) Use of acoustic barriers and noise enclosure if necessary.
	Landscape and Visual	(m) Proper setup of precautionary area for retained trees.

Monitoring Schedule for the Next Month

- 9.4 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

10 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 10.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

Construction Noise Monitoring

- 10.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was record.

Site Audit

- 10.3 5 times of ET joint weekly environmental site inspections were conducted in the reporting month. .

Complaint and Prosecution

- 10.4 No environmental complaint was received in this reporting month.
- 10.5 No environmental prosecution was received in the reporting month.

Recommendations

- 10.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality

- Water spraying should be provided frequently to unpaved and exposed area, and haul roads for dust suppression.
- Proper tarpaulin coverage or water spraying should be implemented to all stockpiles in the Site to prevent dust generation.

Water Quality

- Nearby channels should be kept clean.
- Embankment or dikes should be established at the site boundary to direct any untreated wastewater from the Site to wastewater treatment facility during rain events to perform water treatment before discharge.
- Standing or ponding water within the Site should be cleared as far as practicable.

Waste/Chemical Management

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

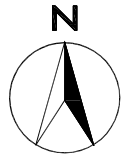
Landscape and Visual

- Adequate tree protection zones should be established to protect retained and existing trees. Conspicuous signs of status of trees should be clearly shown to avoid damage from PME's or workers.

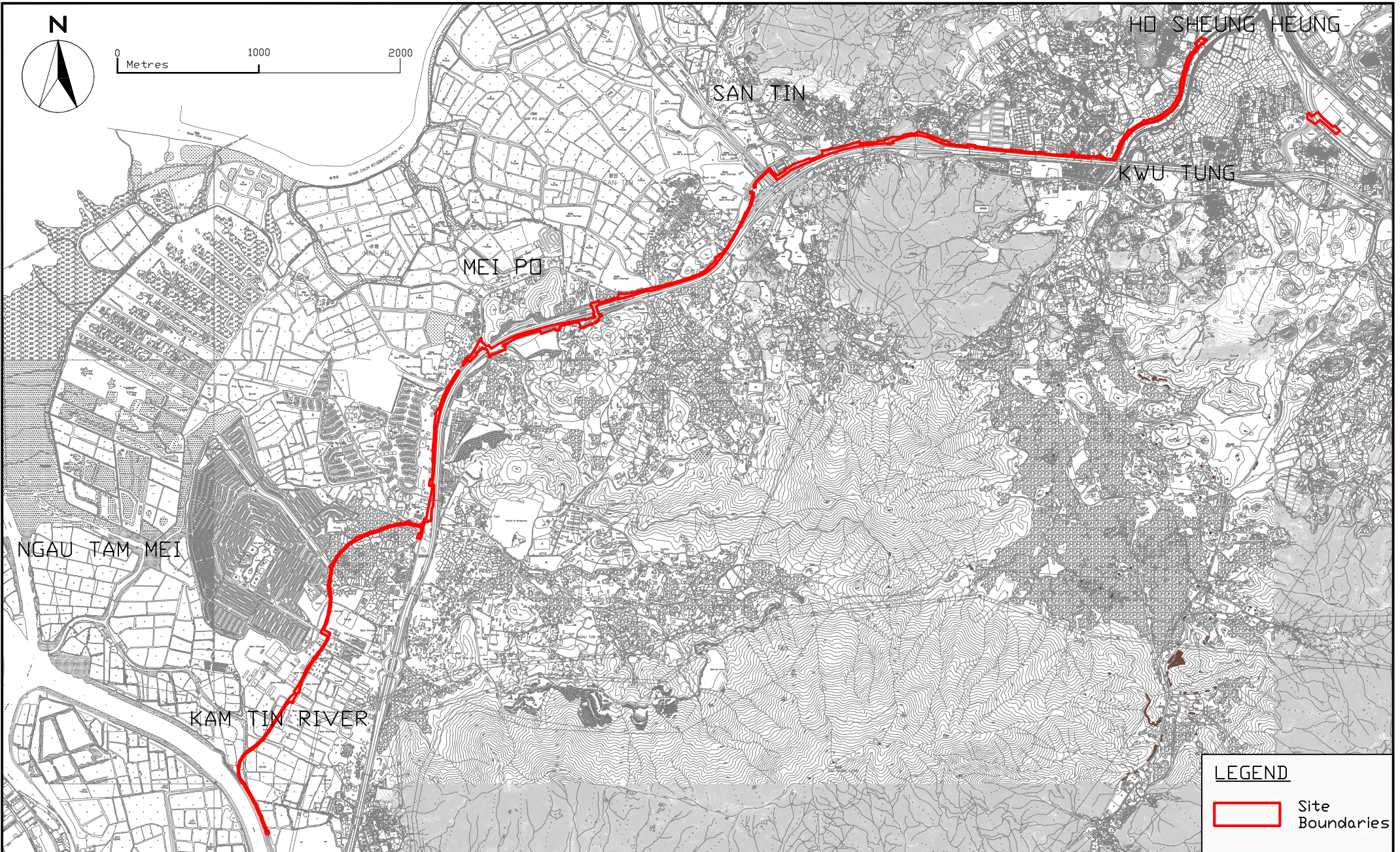
Permits/Licences

- Environmental licences should be properly displayed at every entrance.

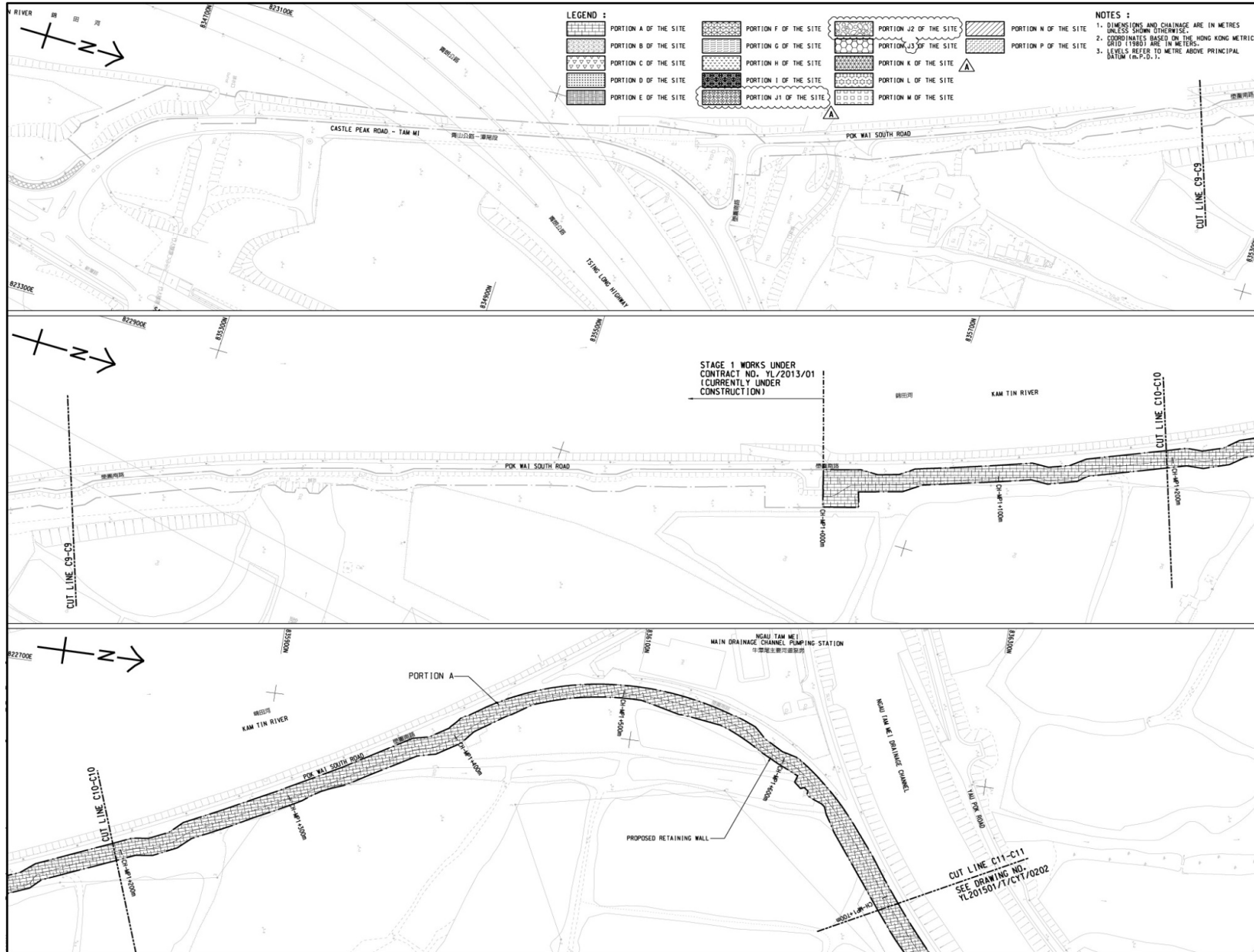
FIGURES



0 Metres 1000 2000



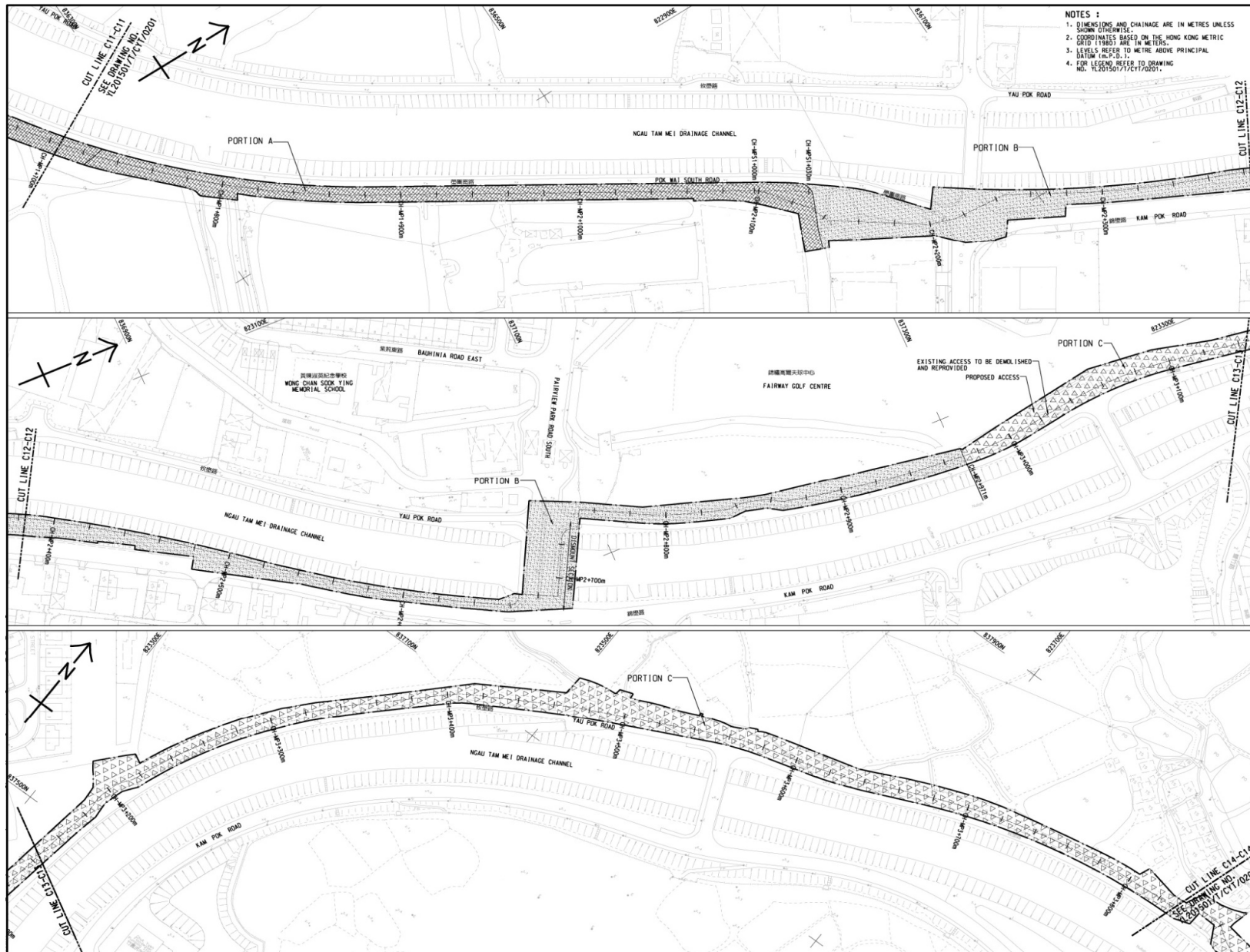
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CHECK	JL	DRAWN	VW		
JOB No.	MA16036	FIGURE NO.	1a	REV	-



Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1b

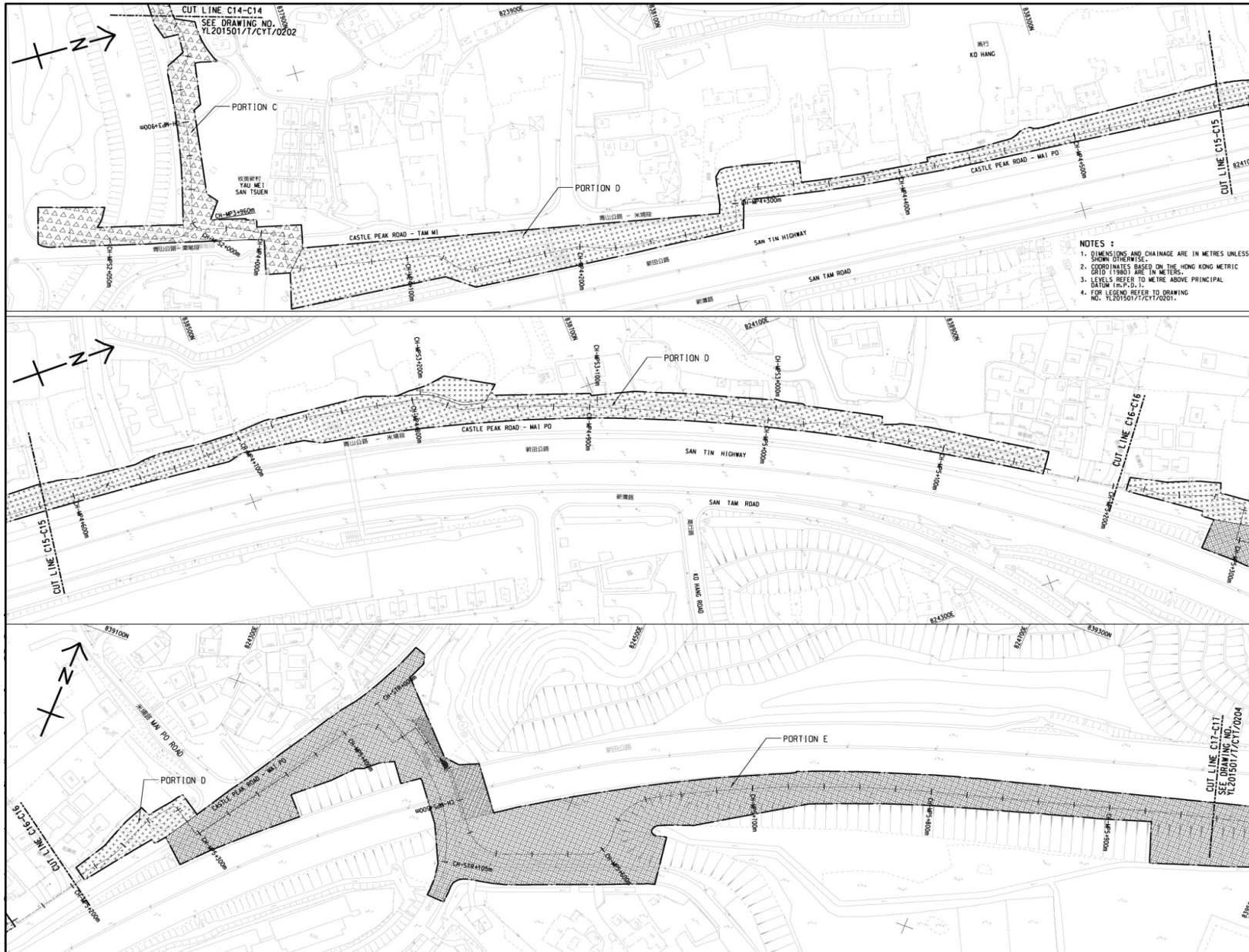
CINOTECH



Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1c

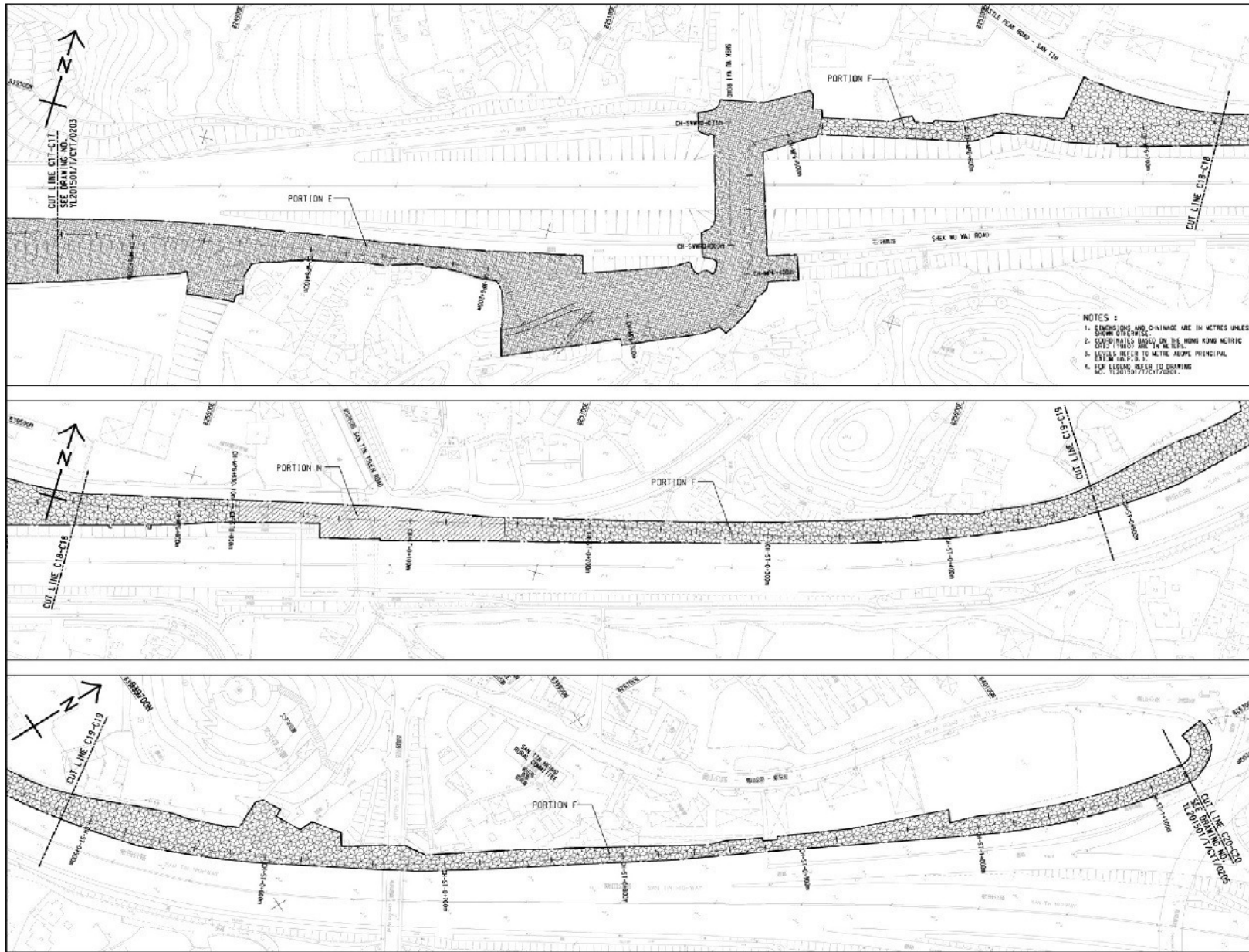




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1d

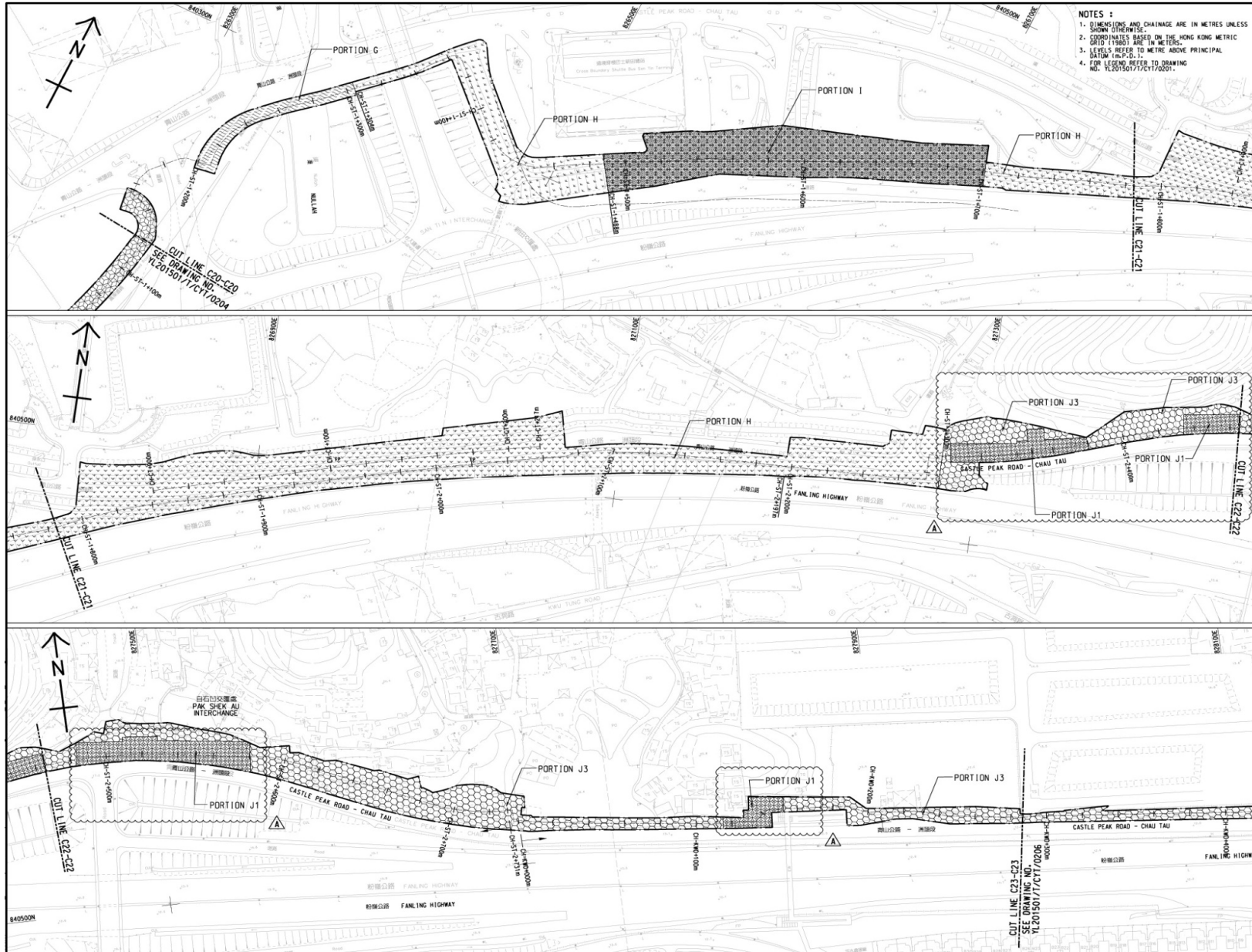




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1e

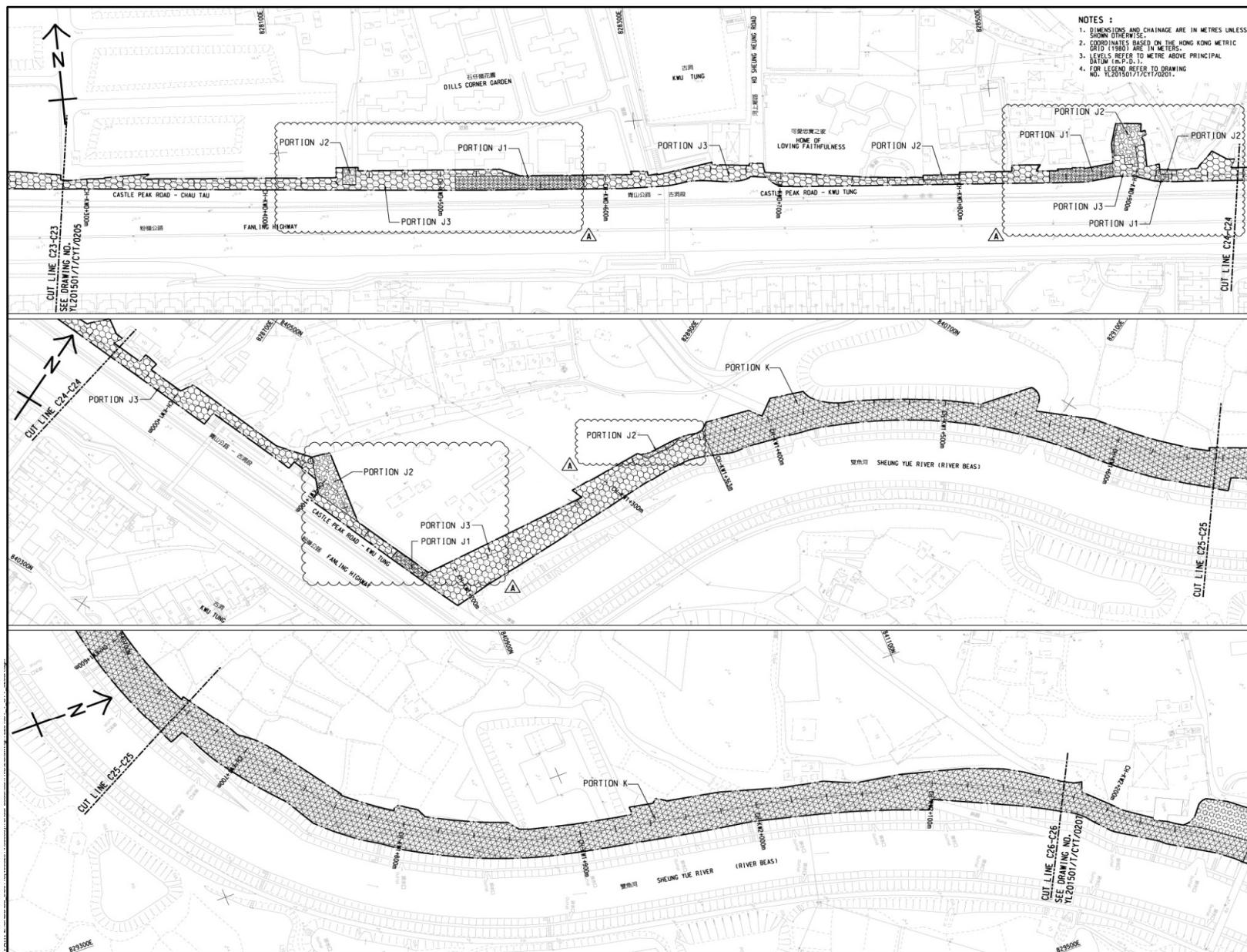




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1f





Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1g





Title



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

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1h





LEGEND

-  Site Boundary
-  Noise Monitoring Stations



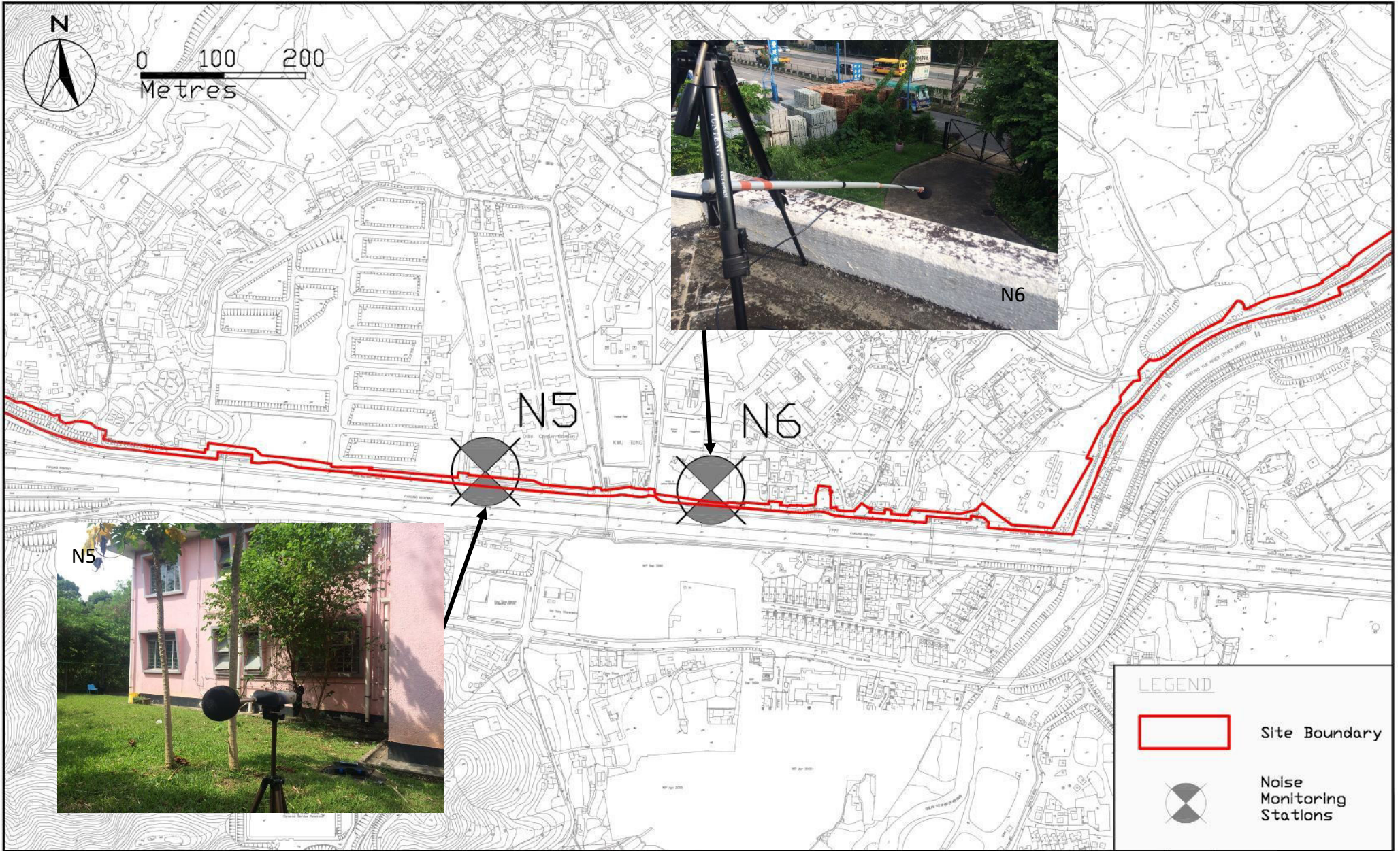
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N1, N2)

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



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



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

**APPENDIX A
WORK PROGRAMME**



生興 - 豐利聯營
Sang Hing - Kuly Joint Venture

28th June 2019

Our ref.: SKJV/W52/SO/3497

Mannings (Asia) Consultants Ltd.
5/F, Winning Commercial Building,
46-48 Hillwood Road,
Tsim Sha Tsui,
Kowloon

By fax & post
Fax no.: 3168 2022

Attn.: Mr. Mole Tam (Senior Resident Engineer)

Dear Sirs,

Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works
Updated Programme

Enclosed please find our updated programme for your information and acceptance. A summary is also attached herewith this letter for your easy reference.

In several meetings, we understand that CEDD and your Office would request us to complete the proposed Cycle Track by the end of this year. However, our programme are hindered by some external constraints such as Street Lighting Works by Highways Department, approval of GRP Roofing at Subway A & D, utilities diversions at Retaining Walls RW49 and RW50 and additional walls at Portions J1 to J3, etc.

In view of this requirement, we would like to arrange an ad hoc meeting to seek a better solution to accelerate the works.

Thank you for your kind attention

Yours faithfully,
For and on behalf of
Sang Hing - Kuly Joint Venture

Tang Wing Kai
Site Agent

WKT/MKM/TL/tl

Encl.

Summary of Updating Programme upto end of June 2019

Section	Portion	Revised Completion Date	Revised Completion Date (Including with Time Saving)	Updated Programme Completion Date	Major outstanding work / critical work	Target Completion	Critical Priority	Remark	
W1	A			30/9/2019	1) Street Lighting works and Colour Dressing	30-Sep-19			
					1) Subway A Bay 12 to Bay 16	16-Oct-19			
	B		5/6/2019	7/4/2019	23/2/2020	2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19
						3) GRP Roofing Order and Delivery	15-Oct-19		
						4) GRP installation	13-Jan-20		
						5) Road work inside subway	23-Feb-20		
						5) Street Lighting works and colour Dressing	30-Sep-19		
	C			11/7/2019	1) Street Lighting works and Colour Dressing	7-Nov-19			
					2) Additional Proposed staircase, ramp at Yau Po Road	16-Oct-19			
	D			15/4/2020	1) Approval of Street Lighting	30-Jun-19	1st		
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
					3) Colour Dressing	15-Apr-20			

W2	E			15/4/2020	1) Retaining Wall RW D03	26-Mar-20	3rd			
					2) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019		
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20				
					4) Colour Dressing	15-Apr-20				
	F		15/4/2020	1) RW 42 (CSD)	30-Dec-19	3rd				
				2) RW 44 and Ramp PR3	19-Dec-19					
	G			31/3/2020	3) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019		
					4) Allocation Warrant and Installation of Street Lighting	6-Mar-20				
					5) Colour Dressing	15-Apr-20				
	H		16/11/2019	1/9/2019	25/4/2021	1) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019	
						2) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
						3) Colour Dressing	31-Mar-20			
1) Additional RW49 & RW50						10/2/2020	1st			
2) Additional Diversion of utilities along RW49 & RW50						8/8/2020				
3) Drainage and Gullies for re-alignment carriageway for RW49 & RW50						7/10/2020				
4) Road Works for re-alignment of DW1 and DW2 and street lighting works	25/4/2021									
I			13/3/2020	1) Subway D E&M works	1-Nov-19	2nd	Assume GRP approval obtained on 15/7/19			
				2) GRP Roofing Approval	15-Jul-19					
				3) GRP Roofing Order and Delivery	15-Oct-19					
				4) GRP installation	13-Jan-20					
				5) Road work inside subway	13-Mar-20					
N			20/3/2020	1) Bridge B - Substructure	30-Sep-19	3rd				
				2) Bridge B - Superstructure	30-Nov-19					
				3) Bridge B - Site formation	20-Jan-20					
				4) Approval of Street Lighting	30-Jun-19		2nd	Assume Approval given on 30 June 2019		
				5) Allocation Warrant and Installation of Street Lighting	6-Mar-20					
				6) Colour Dressing	20-Mar-20					

W3	K&J1	30/5/2019	1/4/2019	5/4/2020	1) Approval of Street Lighting	30-Jun-19	1st	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					3) Colour Dressing	5-Apr-20		

W5	M	11/9/2019	11/9/2019	31/3/2020	1) Steel roofing and E&M of Bridge E	27-Dec-19	1st	Assume Approval given on 30 June 2019
					2) Approval of Street Lighting	30-Jun-19		
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	31-Mar-20		

W7	J1,J2,J3	14/6/2019	16/4/2019	20/4/2020	1) RW48, RW24A, RW24AAA, etc	31-Dec-19	1st			
					2) Earthwork and Drainage works	29-Feb-20				
					3) Road Work (except colour dressing)	30-Mar-20				
					2) Approval of Street Lighting	30-Jun-19			2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20				
					4) Colour Dressing	24-Apr-20				

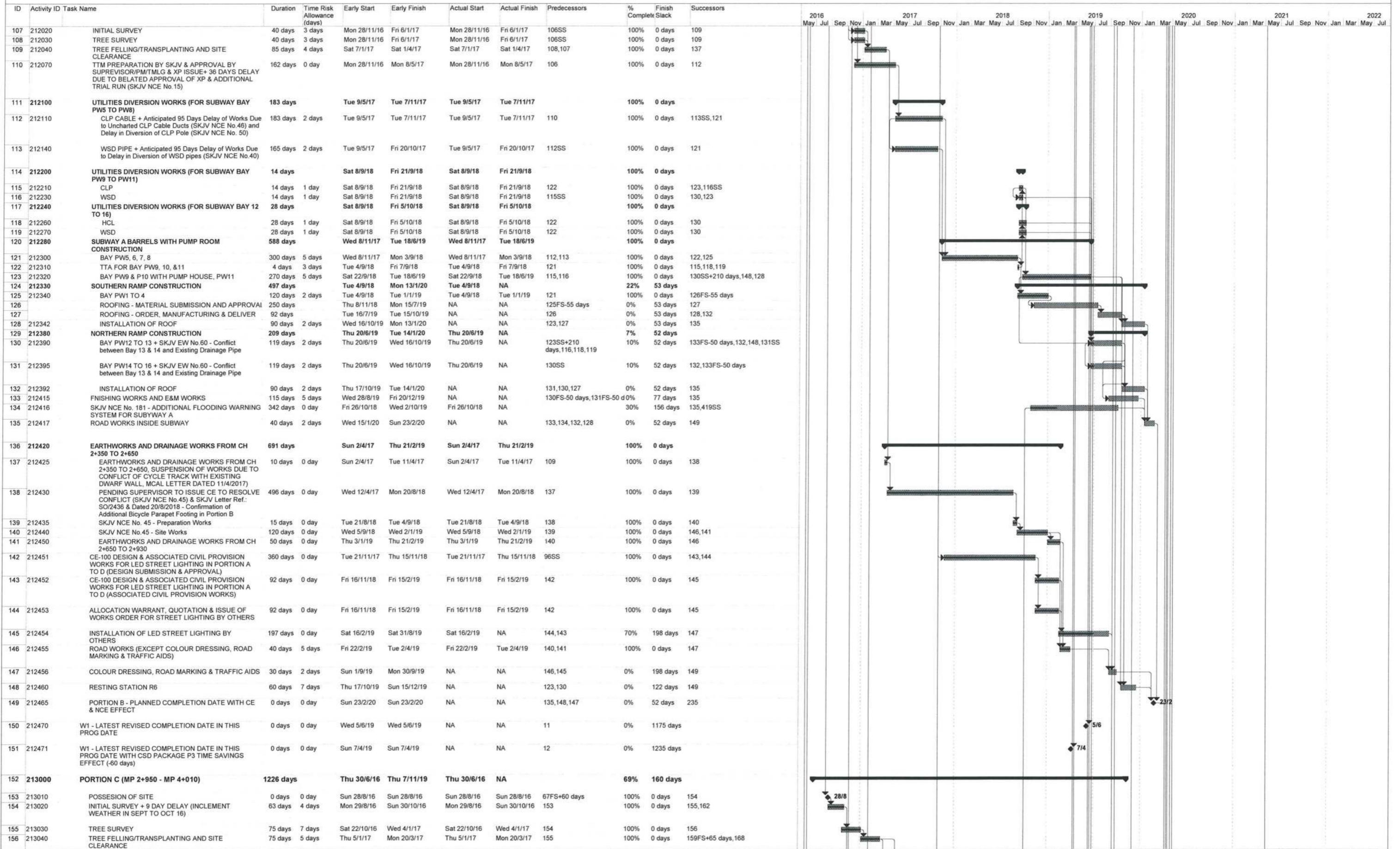
CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																											
62	100455	SECTION W7 PLANNED COMPLETION DATE WITH CE & NCE EFFECT (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Fri 24/4/20	Fri 24/4/20	NA	NA	644	0%	851 days	64	[Gantt bar for ID 62]																											
63	100460	SECTION W1 TO W7 ORIGINAL COMPLETION DATE	0 days	0 day	Mon 1/7/19	Mon 1/7/19	NA	NA	10FS+184 days, 22, 32FS+184 days, 40FS+549 days, 46, 53, 59FS+117 days	0%	0 days		[Gantt bar for ID 63]																											
64	100480	SECTION W1 TO W7 PLANNED COMPLETION DATE WITH CE & NCE (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	13, 25, 35, 48, 62	0%	485 days		[Gantt bar for ID 64]																											
65	200000	PLANNED WORKS PROGRAMME	1761 days	0 day	Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		78%	485 days		[Gantt bar for ID 65]																											
66	210010	SECTION W1 (PORTION A,B,C & D)	1386 days	0 day	Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		77%	860 days		[Gantt bar for ID 66]																											
67	210020	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	106FS+151 days, 153FS+60 days, 195FS+151 days, 69FS+60	[Gantt bar for ID 67]																											
68	211000	PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)	1188 days	0 day	Thu 30/6/16	Mon 30/9/19	Thu 30/6/16	NA		97%	198 days		[Gantt bar for ID 68]																											
69	211010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	67FS+60 days	100%	0 days	70	[Gantt bar for ID 69]																											
70	211020	INITIAL SURVEY + 3 DAY DELAY (INCLEMENT WEATHER) IN OCT 2016	63 days	3 days	Mon 29/8/16	Sun 30/10/16	Mon 29/8/16	Sun 30/10/16	69	100%	0 days	78FS+4 days, 71, 75	[Gantt bar for ID 70]																											
71	211030	TREE SURVEY + 5 DAY DELAY (INCLEMENT WEATHER) IN SEP 2016	75 days	3 days	Mon 31/10/16	Fri 13/1/17	Mon 31/10/16	Fri 13/1/17	70	100%	0 days	72	[Gantt bar for ID 71]																											
72	211040	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO MEMO) + 6 DAY DELAY (INCLEMENT WEATHER) IN DEC 2016	66 days	5 days	Sat 14/1/17	Mon 20/3/17	Sat 14/1/17	Mon 20/3/17	71	100%	0 days	88, 81	[Gantt bar for ID 72]																											
73	211050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	485 days	10 days	Thu 30/6/16	Fri 27/10/17	Thu 30/6/16	Fri 27/10/17	67SS	100%	0 days		[Gantt bar for ID 73]																											
74	211060	UTILITIES DIVERSION WORKS	439 days	0 day	Mon 31/10/16	Fri 12/1/18	Mon 31/10/16	Fri 12/1/18		100%	0 days		[Gantt bar for ID 74]																											
75	211070	CLP (@ Approx MP1+300)	60 days	0 day	Mon 31/10/16	Thu 29/12/16	Mon 31/10/16	Thu 29/12/16	70	100%	0 days	87	[Gantt bar for ID 75]																											
76	211075	CLP (Between MP1+600 TO MP2+100)	60 days	2 days	Tue 14/11/17	Fri 12/1/18	Tue 14/11/17	Fri 12/1/18	90	100%	0 days		[Gantt bar for ID 76]																											
77	211080	PCCW (Between MP1+600 TO MP2+100)	60 days	2 days	Tue 14/11/17	Fri 12/1/18	Tue 14/11/17	Fri 12/1/18	90	100%	0 days		[Gantt bar for ID 77]																											
78	211090	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Thu 3/11/16	Wed 30/11/16	Thu 3/11/16	Wed 30/11/16	70FS+4 days	100%	0 days	79SS, 80	[Gantt bar for ID 78]																											
79	211100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Thu 3/11/16	Wed 23/11/16	Thu 3/11/16	Wed 23/11/16	78SS	100%	0 days	80	[Gantt bar for ID 79]																											
80	211110	INSTALLATION OF MONITORING MARKERS	20 days	2 days	Thu 1/12/16	Tue 20/12/16	Thu 1/12/16	Tue 20/12/16	79, 78	100%	0 days	81	[Gantt bar for ID 80]																											
81	211115	RETAINING WALL - RW 8A (60M)	70 days	5 days	Tue 21/3/17	Mon 29/5/17	Tue 21/3/17	Mon 29/5/17	80, 72	100%	0 days	87, 82SS+7 days, 83	[Gantt bar for ID 81]																											
82	211120	RETAINING WALL - RW 8B (40M)	66 days	5 days	Thu 1/6/17	Tue 28/3/17	Thu 1/6/17	Tue 28/3/17	81SS+7 days	100%	0 days	87, 83	[Gantt bar for ID 82]																											
83	211125	END DATE OF DRY SEASON	1 day	0 day	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	82, 81	100%	0 days		[Gantt bar for ID 83]																											
84	211130	START DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	91	[Gantt bar for ID 84]																											
85	211150	RETAINING WALL - RW7 (20M) - CSD	60 days	2 days	Tue 13/3/18	Fri 11/5/18	Tue 13/3/18	Fri 11/5/18	91SS+60 days	100%	0 days	95SS, 93, 86SS	[Gantt bar for ID 85]																											
86	211160	RETAINING WALL - RW7A (67M) - CSD	60 days	4 days	Tue 13/3/18	Fri 11/5/18	Tue 13/3/18	Fri 11/5/18	85SS	100%	0 days	93	[Gantt bar for ID 86]																											
87	211190	EARTHWORKS AND DRAINAGE WORKS, UTILITIES LAYING BETWEEN MP1+000 TO MP 1+600	502 days	5 days	Sat 3/6/17	Wed 17/10/18	Sat 3/6/17	Wed 17/10/18	81, 82, 75	100%	0 days	92	[Gantt bar for ID 87]																											
88	211200	EARTHWORKS AND DRAINAGE WORKS BETWEEN CH1+600 TO CH2+100, THE WORKS SUSPENDED DUE TO SLOPE WORKS FALLING ON WATER POND & OUTSIDE SITE BOUNDARY (SKJV EW No.3 Dated 24/3/17)	0 days	0 day	Fri 24/3/17	Fri 24/3/17	Fri 24/3/17	Fri 24/3/17	72	100%	0 days	89	[Gantt bar for ID 88]																											
89	211210	PENDING THE SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV EW No.3) AND SKJV NCE No. 78 - ADDITIONAL BICYCLE PARAPET FOOTING IN PORTION A	263 days	0 day	Fri 24/3/17	Mon 11/12/17	Fri 24/3/17	Mon 11/12/17	88	100%	0 days	90SS+205 days, 91FS-28 days	[Gantt bar for ID 89]																											
90	211215	PREPARATION WORKS FOR WORKS UNDER CE TO RESOLVE CONFLICT (SKJV EW No.3) BY SKJV	30 days	0 day	Sun 15/10/17	Mon 13/11/17	Sun 15/10/17	Mon 13/11/17	89SS+205 days	100%	0 days	91, 76, 77	[Gantt bar for ID 90]																											
91	211220	CONSTRUCTION OF WORKS UNDER CE TO RESOLVE THE CONFLICT UNDER SKJV EW No.3 AND SKJV NCE No.78	138 days	3 days	Tue 14/11/17	Sat 31/3/18	Tue 14/11/17	Sat 31/3/18	90, 84, 89FS-28 days	100%	0 days	100, 93, 85SS+60 days	[Gantt bar for ID 91]																											
92	211235	STAIRCASE @ MP1+960	30 days	3 days	Thu 18/10/18	Fri 16/11/18	Thu 18/10/18	Fri 16/11/18	87	100%	0 days	100	[Gantt bar for ID 92]																											
93	211225	END DATE OF DRY SEASON	1 day	0 day	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	86, 91, 85, 95	100%	0 days		[Gantt bar for ID 93]																											
94	211230	START DATE OF DRY SEASON	1 day	0 day	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18		100%	0 days		[Gantt bar for ID 94]																											
95	211250	RETAINING WALL - RW 7B (20M) - CSD	60 days	0 day	Tue 13/3/18	Fri 11/5/18	Tue 13/3/18	Fri 11/5/18	85SS	100%	0 days	93	[Gantt bar for ID 95]																											
96	211260	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL)	360 days	0 day	Tue 21/11/17	Thu 15/11/18	Tue 21/11/17	Thu 15/11/18		100%	0 days	97, 98, 142SS, 184SS	[Gantt bar for ID 96]																											
97	211261	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	96	100%	0 days	99	[Gantt bar for ID 97]																											
98	211262	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	96	100%	0 days	99	[Gantt bar for ID 98]																											
99	211263	INSTALLATION OF LED STREET LIGHTING BY OTHERS	197 days	0 day	Sat 16/2/19	Sat 31/8/19	Sat 16/2/19	NA	98, 97	70%	198 days	101	[Gantt bar for ID 99]																											
100	211270	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	92 days	7 days	Sat 17/11/18	Sat 16/2/19	Sat 17/11/18	Sat 16/2/19	91, 92	100%	0 days	101	[Gantt bar for ID 100]																											
101	211271	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	30 days	0 day	Sun 1/9/19	Mon 30/9/19	NA	NA	100, 99	0%	198 days	102	[Gantt bar for ID 101]																											
102	211275	PORTION A - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Mon 30/9/19	Mon 30/9/19	NA	NA	101	0%	198 days	235	[Gantt bar for ID 102]																											
103	211280	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days		[Gantt bar for ID 103]																											
104	211281	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days		[Gantt bar for ID 104]																											
105	212000	PORTION B (MP 2+130 - MP 2+950)	1183 days		Sun 27/11/16	Sun 23/2/20	Sun 27/11/16	NA		70%	52 days		[Gantt bar for ID 105]																											
106	212010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	67FS+151 days	100%	0 days	107SS, 108SS, 110	[Gantt bar for ID 106]																											

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

Legend:

- Task: Solid black bar
- Split: Dotted black bar
- Milestone: Diamond symbol
- Summary: Thick black bar
- External Milestone: Diamond with dot
- Inactive Summary: Thin grey bar
- Manual Summary Rollup: Bar with arrow
- Finish-only: Bar with arrow at end
- Progress: Bar with diagonal lines
- Deadline: Bar with vertical lines
- Project Summary: Dotted grey bar
- Inactive Task: Thin grey bar
- Manual Task: Bar with arrow
- Manual Summary: Bar with arrow
- Start-only: Bar with arrow at start
- Critical: Bar with double lines
- Deadline: Bar with vertical lines
- External Tasks: Bar with diagonal lines
- Inactive Milestone: Diamond with dot
- Duration-only: Bar with arrow
- Manual Summary: Bar with arrow
- Start-only: Bar with arrow at start
- Critical Split: Bar with double lines and arrow



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

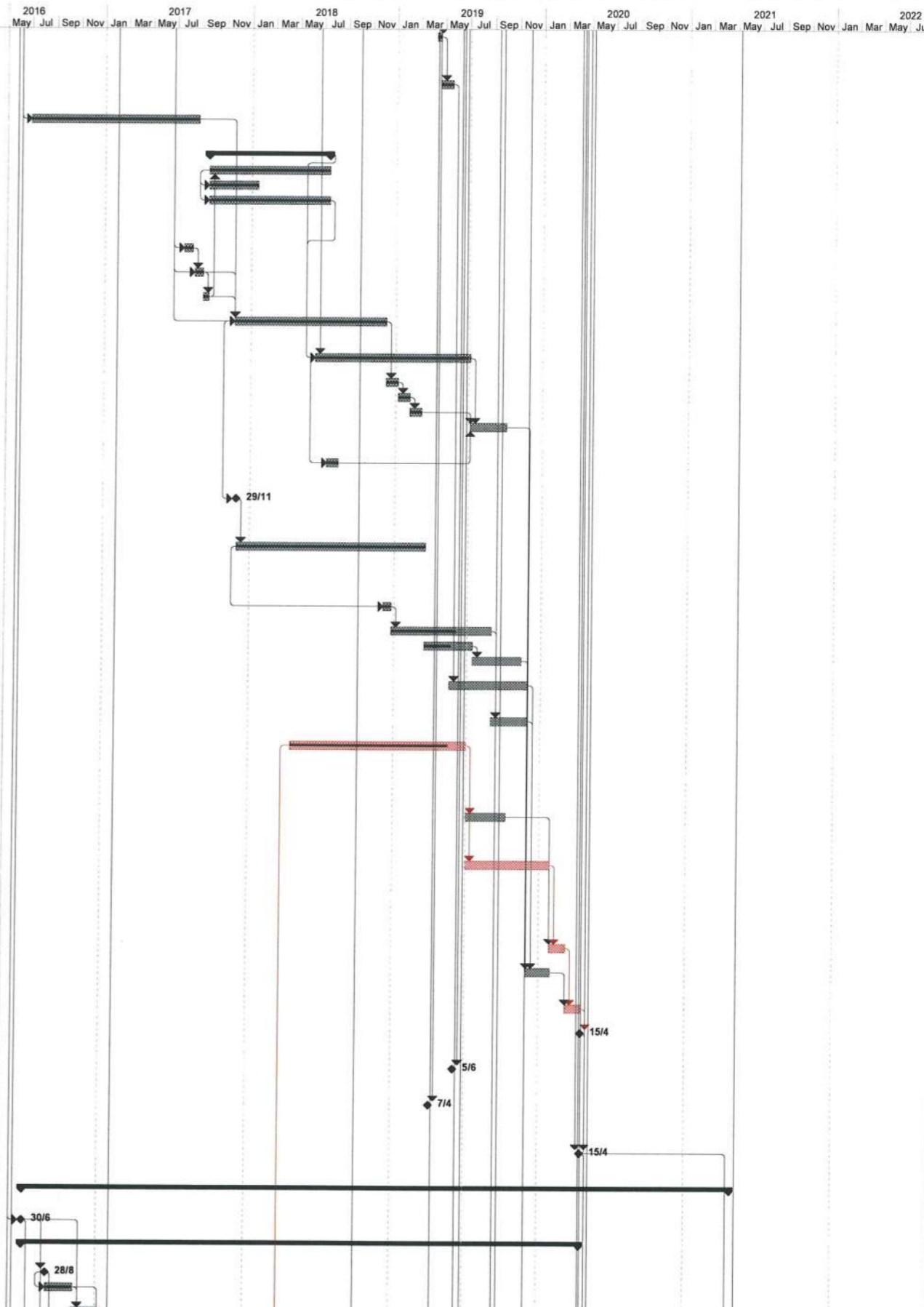
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																																															
157	213050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	520 days	0 day	Thu 30/6/16	Fri 1/12/17	Thu 30/6/16	Fri 1/12/17	67SS	100%	0 days	178	[Gantt bar for 157: Thu 30/6/16 to Fri 1/12/17]																																															
158	213060	UTILITIES DIVERSION WORKS	170 days	0 day	Thu 18/5/17	Fri 3/11/17	Thu 18/5/17	Fri 3/11/17		100%	0 days		[Gantt bar for 158: Thu 18/5/17 to Fri 3/11/17]																																															
159	213070	CLP	30 days	3 days	Thu 18/5/17	Fri 16/6/17	Thu 18/5/17	Fri 16/6/17	156FS+65 days	100%	0 days	160FS+80 days, 161FS+80 days	[Gantt bar for 159: Thu 18/5/17 to Fri 16/6/17]																																															
160	213080	PCCW	60 days	3 days	Tue 5/9/17	Fri 3/11/17	Tue 5/9/17	Fri 3/11/17	159FS+80 days	100%	0 days		[Gantt bar for 160: Tue 5/9/17 to Fri 3/11/17]																																															
161	213085	WSD	60 days	3 days	Tue 5/9/17	Fri 3/11/17	Tue 5/9/17	Fri 3/11/17	159FS+80 days	100%	0 days		[Gantt bar for 161: Tue 5/9/17 to Fri 3/11/17]																																															
162	213090	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS) + 1 day DELAY (INCLIMENT WEATHER IN OCT 16)	61 days	5 days	Mon 31/10/16	Fri 30/12/16	Mon 31/10/16	Fri 30/12/16	154	100%	0 days	163	[Gantt bar for 162: Mon 31/10/16 to Fri 30/12/16]																																															
163	213100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	3 days	Sat 31/12/16	Fri 20/1/17	Sat 31/12/16	Fri 20/1/17	162	100%	0 days	164	[Gantt bar for 163: Sat 31/12/16 to Fri 20/1/17]																																															
164	213110	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Sat 21/1/17	Fri 3/2/17	Sat 21/1/17	Fri 3/2/17	163	100%	0 days	168	[Gantt bar for 164: Sat 21/1/17 to Fri 3/2/17]																																															
165	213120	RETAINING WALL - RW 11A (50M) - CSD	100 days	5 days	Fri 12/10/18	Sat 19/1/19	Fri 12/10/18	Sat 19/1/19	176,177	100%	0 days		[Gantt bar for 165: Fri 12/10/18 to Sat 19/1/19]																																															
166	213130	RETAINING WALL - RW 11B : BAY1 - BAY 6 (60M)	115 days	5 days	Wed 14/6/17	Fri 6/10/17	Wed 14/6/17	Fri 6/10/17	168	100%	0 days	183	[Gantt bar for 166: Wed 14/6/17 to Fri 6/10/17]																																															
167	213140	RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M)	115 days	5 days	Wed 14/6/17	Fri 6/10/17	Wed 14/6/17	Fri 6/10/17	168FS-30 days	100%	0 days	183	[Gantt bar for 167: Wed 14/6/17 to Fri 6/10/17]																																															
168	213150	RETAINING WALL - RW 11C : BAY 1 - BAY 7 (70M)	100 days	7 days	Tue 21/3/17	Wed 28/6/17	Tue 21/3/17	Wed 28/6/17	164,156	100%	0 days	169SS, 167FS-30 days, 170SS, 166, 183	[Gantt bar for 168: Tue 21/3/17 to Wed 28/6/17]																																															
169	213160	RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M)	100 days	5 days	Tue 21/3/17	Wed 28/6/17	Tue 21/3/17	Wed 28/6/17	168SS	100%	0 days	172FS-30 days	[Gantt bar for 169: Tue 21/3/17 to Wed 28/6/17]																																															
170	213170	RETAINING WALL - RW 11C : BAY 15 - BAY 26 (+ SKJV NCE)	508 days	7 days	Tue 21/3/17	Fri 10/8/18	Tue 21/3/17	Fri 10/8/18	168SS	100%	0 days		[Gantt bar for 170: Tue 21/3/17 to Fri 10/8/18]																																															
171	213175	RETAINING WALL - RW 12 : BAY 0 (+ Delay due to SKJV NCE No.99 - Additional of Bay 0, 17 & 18 for RW12)	80 days	2 days	Sun 29/10/17	Tue 16/1/18	Sun 29/10/17	Tue 16/1/18	172FS-80 days	100%	0 days	183	[Gantt bar for 171: Sun 29/10/17 to Tue 16/1/18]																																															
172	213180	RETAINING WALL - RW 12 : BAY 1 - BAY 8 (80M) (+ DELAY DUE TO OF WORKS DUE TO CONFLICT OF CLP'S POLE)	232 days	7 days	Tue 30/5/17	Tue 16/1/18	Tue 30/5/17	Tue 16/1/18	169FS-30 days	100%	0 days	171FS-80 days, 183, 190, 173SS	[Gantt bar for 172: Tue 30/5/17 to Tue 16/1/18]																																															
173	213190	RETAINING WALL - RW 12 : BAY 9 - BAY 16 (80M)	232 days	7 days	Tue 30/5/17	Tue 16/1/18	Tue 30/5/17	Tue 16/1/18	172SS	100%	0 days	176SS, 174FS-80 days, 183	[Gantt bar for 173: Tue 30/5/17 to Tue 16/1/18]																																															
174	213195	RETAINING WALL - RW 12 : BAY 17 to 18 (+SKJV NCE)	80 days	2 days	Sun 29/10/17	Tue 16/1/18	Sun 29/10/17	Tue 16/1/18	173FS-80 days	100%	0 days	175SS+8 days, 183	[Gantt bar for 174: Sun 29/10/17 to Tue 16/1/18]																																															
175	213200	RETAINING WALL - RW 13 (40M) (+ SKJV NCE)	200 days	5 days	Mon 6/11/17	Thu 24/5/18	Mon 6/11/17	Thu 24/5/18	174SS+8 days	100%	0 days	177	[Gantt bar for 175: Mon 6/11/17 to Thu 24/5/18]																																															
176	213210	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	500 days	5 days	Tue 30/5/17	Thu 11/10/18	Tue 30/5/17	Thu 11/10/18	173SS	100%	0 days	165, 178	[Gantt bar for 176: Tue 30/5/17 to Thu 11/10/18]																																															
177	213220	RETAINING WALL - RW 15A (7.5M) (+ SKJV NCE)	50 days	2 days	Fri 25/5/18	Fri 13/7/18	Fri 25/5/18	Fri 13/7/18	175	100%	0 days	178, 165	[Gantt bar for 177: Fri 25/5/18 to Fri 13/7/18]																																															
178	213230	RAMP NEAR YAU POK ROAD + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	177, 157, 176	0%	160 days	179SS, 180SS, 181SS, 182SS, 189	[Gantt bar for 178: Fri 12/10/18 to Wed 16/10/19]																																															
179	213240	STAIRCASE S1 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	189	[Gantt bar for 179: Fri 12/10/18 to Wed 16/10/19]																																															
180	213250	STAIRCASE S2 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	189	[Gantt bar for 180: Fri 12/10/18 to Wed 16/10/19]																																															
181	213260	STAIRCASE S3 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	189	[Gantt bar for 181: Fri 12/10/18 to Wed 16/10/19]																																															
182	213270	RAMP AND STAIRCASE - CSR1 + SKJV EW No. 43 - Proposed Staircase outside Site Boundary	370 days	0 day	Fri 12/10/18	Wed 16/10/19	Fri 12/10/18	NA	178SS	0%	160 days	183FS-323 days, 189	[Gantt bar for 182: Fri 12/10/18 to Wed 16/10/19]																																															
183	213280	EARTHWORKS AND DRAINAGE WORKS FROM CH2+971 TO 4+010	215 days	10 days	Wed 28/11/18	Sun 30/6/19	Wed 28/11/18	NA	166, 167, 168, 171, 172, 173, 193 days	91 days	188FS-100 days		[Gantt bar for 183: Wed 28/11/18 to Sun 30/6/19]																																															
184	213281	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL)	360 days	0 day	Tue 21/11/17	Thu 15/11/18	Tue 21/11/17	Thu 15/11/18	96SS	100%	0 days	185, 186	[Gantt bar for 184: Tue 21/11/17 to Thu 15/11/18]																																															
185	213282	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	184	100%	0 days	187	[Gantt bar for 185: Fri 16/11/18 to Fri 15/2/19]																																															
186	213283	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS	92 days	0 day	Fri 16/11/18	Fri 15/2/19	Fri 16/11/18	Fri 15/2/19	184	100%	0 days	187	[Gantt bar for 186: Fri 16/11/18 to Fri 15/2/19]																																															
187	213284	INSTALLATION OF LED STREET LIGHTING BY OTHERS	197 days	0 day	Sat 16/2/19	Sat 31/8/19	Sat 16/2/19	NA	186, 185	70%	206 days	189	[Gantt bar for 187: Sat 16/2/19 to Sat 31/8/19]																																															
188	213290	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	130 days	4 days	Sat 23/3/19	Tue 30/7/19	Sat 23/3/19	NA	183FS-100 days	70%	238 days	189	[Gantt bar for 188: Sat 23/3/19 to Tue 30/7/19]																																															
189	213291	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	22 days	1 day	Thu 17/10/19	Thu 7/11/19	NA	NA	187, 188, 178, 179, 180, 181, 190	10%	160 days	191	[Gantt bar for 189: Thu 17/10/19 to Thu 7/11/19]																																															
190	213300	RESTING STATION R7	144 days	10 days	Wed 17/1/18	Sat 9/6/18	Wed 17/1/18	Sat 9/6/18	172	100%	0 days	191	[Gantt bar for 190: Wed 17/1/18 to Sat 9/6/18]																																															
191	213310	PORTION C - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Thu 7/11/19	Thu 7/11/19	NA	NA	190, 189	0%	160 days	235	[Gantt bar for 191: Thu 7/11/19 to Thu 7/11/19]																																															
192	213320	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days		[Gantt bar for 192: Wed 5/6/19 to Wed 5/6/19]																																															
193	213321	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days		[Gantt bar for 193: Sun 7/4/19 to Sun 7/4/19]																																															
194	214000	PORTION D (MP 4+010 - MP 5+280)	1386 days		Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		79%	0 days		[Gantt bar for 194: Thu 30/6/16 to Wed 15/4/20]																																															
195	214010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	67FS+151 days	100%	0 days	196SS, 197SS	[Gantt bar for 195: Sun 27/11/16 to Sun 27/11/16]																																															
196	214020	INITIAL SURVEY	220 days	3 days	Mon 28/11/16	Wed 5/7/17	Mon 28/11/16	Wed 5/7/17	195SS	100%	0 days	198	[Gantt bar for 196: Mon 28/11/16 to Wed 5/7/17]																																															
197	214030	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	195SS	100%	0 days	198	[Gantt bar for 197: Mon 28/11/16 to Fri 6/1/17]																																															
198	214040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE EXCLUDING CH-MP5+050 TO 5+290 (+ DELAY DUE TO INCLIMENT WEATHER)	340 days	5 days	Thu 6/7/17	Sun 10/6/18	Thu 6/7/17	Sun 10/6/18	197, 196	100%	0 days	208SS+14 days, 211SS+140 days, 209SS+40 days, 212	[Gantt bar for 198: Thu 6/7/17 to Sun 10/6/18]																																															
199	214041	TREE FELLING WORKS FROM CH-MP5+050 TO 5+290 WAS SUSPENDED, SKJV EW No.12	1 day	0 day	Tue 5/12/17	Tue 5/12/17	Tue 5/12/17	Tue 5/12/17		100%	0 days	200	[Gantt bar for 199: Tue 5/12/17 to Tue 5/12/17]																																															
200	214042	PENDING THE SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV EW No.12)	490 days	0 day	Wed 6/12/17	Tue 9/4/19	Wed 6/12/17	Tue 9/4/19	199	100%	0 days	201	[Gantt bar for 200: Wed 6/12/17 to Tue 9/4/19]																																															



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors
201	214043	PREPARATION WORKS FOR TREE FELLING WORKS UNDER CE TO RESOLVE CONFLICT (SKJV EW No.12) BY SKJV (ASSUMED 20 days)	10 days	0 day	Wed 10/4/19	Fri 19/4/19	Wed 10/4/19	Fri 19/4/19	200	100%	0 days	202
202	214044	TREE FELLING WORKS FROM CH-MP5+050 TO 5+290 (SKJV EW No. 12)	30 days	0 day	Sat 20/4/19	Sun 19/5/19	Sat 20/4/19	Sun 19/5/19	201	100%	0 days	224
203	214050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	420 days	0 day	Thu 30/6/16	Wed 23/8/17	Thu 30/6/16	Wed 23/8/17	67SS	100%	0 days	211
204	214060	UTILITIES DIVERSION WORKS	300 days	0 day	Tue 19/9/17	Sun 15/7/18	Tue 19/9/17	Sun 15/7/18		100%	0 days	212FS-40 days
205	214070	CLP	300 days	3 days	Tue 19/9/17	Sun 15/7/18	Tue 19/9/17	Sun 15/7/18	210	100%	0 days	206SS,207SS
206	214080	PCCW	120 days	3 days	Tue 19/9/17	Tue 16/1/18	Tue 19/9/17	Tue 16/1/18	205SS	100%	0 days	
207	214085	WSD (+DELAY DUE TO SKJV NCE No.63 Additional Relocation of Existing WSD Utilities in Conflict with Proposed Works)	300 days	3 days	Tue 19/9/17	Sun 15/7/18	Tue 19/9/17	Sun 15/7/18	205SS	100%	0 days	212FS-40 days
208	214090	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Thu 20/7/17	Wed 9/8/17	Thu 20/7/17	Wed 9/8/17	198SS+14 days	100%	0 days	209
209	214100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 15/8/17	Mon 4/9/17	Tue 15/8/17	Mon 4/9/17	198SS+40 days,208	100%	0 days	210,211
210	214110	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Tue 5/9/17	Mon 18/9/17	Tue 5/9/17	Mon 18/9/17	209	100%	0 days	211,205
211	214120	RETAINING WALL - RW 15B + SKJV NCE No.81 Additional 3 Bays	380 days	7 days	Thu 23/11/17	Fri 7/12/18	Thu 23/11/17	Fri 7/12/18	198SS+140 days,209,210,203	100%	0 days	218SS,213
212	214130	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	390 days	7 days	Mon 11/6/18	Fri 5/7/19	Mon 11/6/18	Fri 5/7/19	207FS-40 days,198,204FS-40 days	100%	0 days	216,217SS+30 days
213	214140	STREAM DECKING D1	30 days	3 days	Sat 8/12/18	Sun 6/1/19	Sat 8/12/18	Sun 6/1/19	211	100%	0 days	214
214	214150	STREAM DECKING D2	30 days	3 days	Mon 7/1/19	Tue 5/2/19	Mon 7/1/19	Tue 5/2/19	213	100%	0 days	215
215	214160	STREAM DECKING D3	30 days	3 days	Wed 6/2/19	Thu 7/3/19	Wed 6/2/19	Thu 7/3/19	214	100%	0 days	216
216	214170	PEDSTRIAN RAMP CONSTRUCTION & PROVIDE SAFETY ACCESS TO RESIDENT @ CH-MP4+500 (Compensation Event)	90 days	7 days	Sat 6/7/19	Thu 3/10/19	NA	NA	212,217,215	0%	95 days	230
217	214190	DEMOLITION OF EXISTING STRUCTURE @ CH-MP4+500	30 days	2 days	Wed 11/7/18	Thu 9/8/18	Wed 11/7/18	Thu 9/8/18	212SS+30 days	100%	0 days	216
218	214200	RW16A (80M) (THE WORKS SUSPENDED, SKJV EW No.10 - Conflict of Proposed Cycle Track and Actual Site Condition CH-MP-4+660 TO 5+010)	1 day	0 day	Wed 29/11/17	Wed 29/11/17	Wed 29/11/17	Wed 29/11/17	211SS	100%	0 days	219
219	214201	PENDING THE SUPERVISOR TO ISSUE CE-181 REVISION OF RETAINING WALL No. RW16A & ASSOCIATED DRAINAGE WORKS AT KO HANG IN PORTION D, TO RESOLVE CONFLICT (SKJV EW No.10)	475 days	0 day	Thu 30/11/17	Tue 19/3/19	Thu 30/11/17	Tue 19/3/19	218	100%	0 days	220SS+370 days
220	214202	PREPARATION WORKS FOR WORKS UNDER CE-181	20 days	0 day	Wed 5/12/18	Mon 24/12/18	Wed 5/12/18	Mon 24/12/18	219SS+370 days	100%	0 days	221
221	214203	CONSTRUCTION WORKS FOR CE-181	250 days	0 day	Tue 25/12/18	Sat 31/8/19	Tue 25/12/18	NA	220	65%	37 days	225
222	214204	SKJV EW No. 57 - RW16A BAY25 TO 28	120 days	0 day	Mon 18/3/19	Mon 15/7/19	Mon 18/3/19	NA	222	55%	55 days	223
223	214205	CONSTRUCTION WORKS FOR RW16A BAY 25 TO 28	120 days	0 day	Tue 16/7/19	Tue 12/11/19	NA	NA	222	0%	55 days	230
224	214208	SKJV NCE No. 388 - ADDITIONAL PLANTER WALL PWD1 & REVISED DRAINAGE BETWEEN CH MP5+053 AND 5+155	195 days	2 days	Mon 20/5/19	Sat 30/11/19	NA	NA	202	0%	37 days	230
225	214210	EARTHWORKS AND DRAINAGE WORKS	91 days	8 days	Sun 1/9/19	Sat 30/11/19	NA	NA	221	0%	37 days	230
226	214211	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA		90%	0 days	227,228,304SS
227	214212	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	226	0%	110 days	229
228	214213	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	226	0%	0 days	229
229	214214	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	228,227	0%	0 days	231
230	214220	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	60 days	4 days	Sun 1/12/19	Wed 29/1/20	NA	NA	225,224,223,216	0%	37 days	231
231	214221	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	2 days	Sat 7/3/20	Wed 15/4/20	NA	NA	230,229	0%	0 days	232
232	214222	PORTION D - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	231	0%	0 days	235
233	214225	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	11	0%	1175 days	
234	214226	W1 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	12	0%	1235 days	
235	210030	W1 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT UP TO THIS PROG DATE	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	102,149,191,232	0%	0 days	694,645,13
236	SECTION W2 (PORTION E, F, G, H, I & N)		1761 days	days	Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		77%	485 days	
237	220010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	239FS+60 days,314FS+151 days,348,368FS+60
238	221000	PORTION E (MP 5+280 - MP 6+530)	1386 days	days	Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		80%	860 days	
239	221010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	237FS+60 days	100%	0 days	240SS,253
240	221020	INITIAL SURVEY + 4 DAY DELAY (INCLEMENT WEATHER) IN NOV 16	69 days	5 days	Mon 29/8/16	Sat 5/11/16	Mon 29/8/16	Sat 5/11/16	239SS	100%	0 days	242,241
241	221030	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	Wed 2/11/16	Thu 5/1/17	240	100%	0 days	242



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

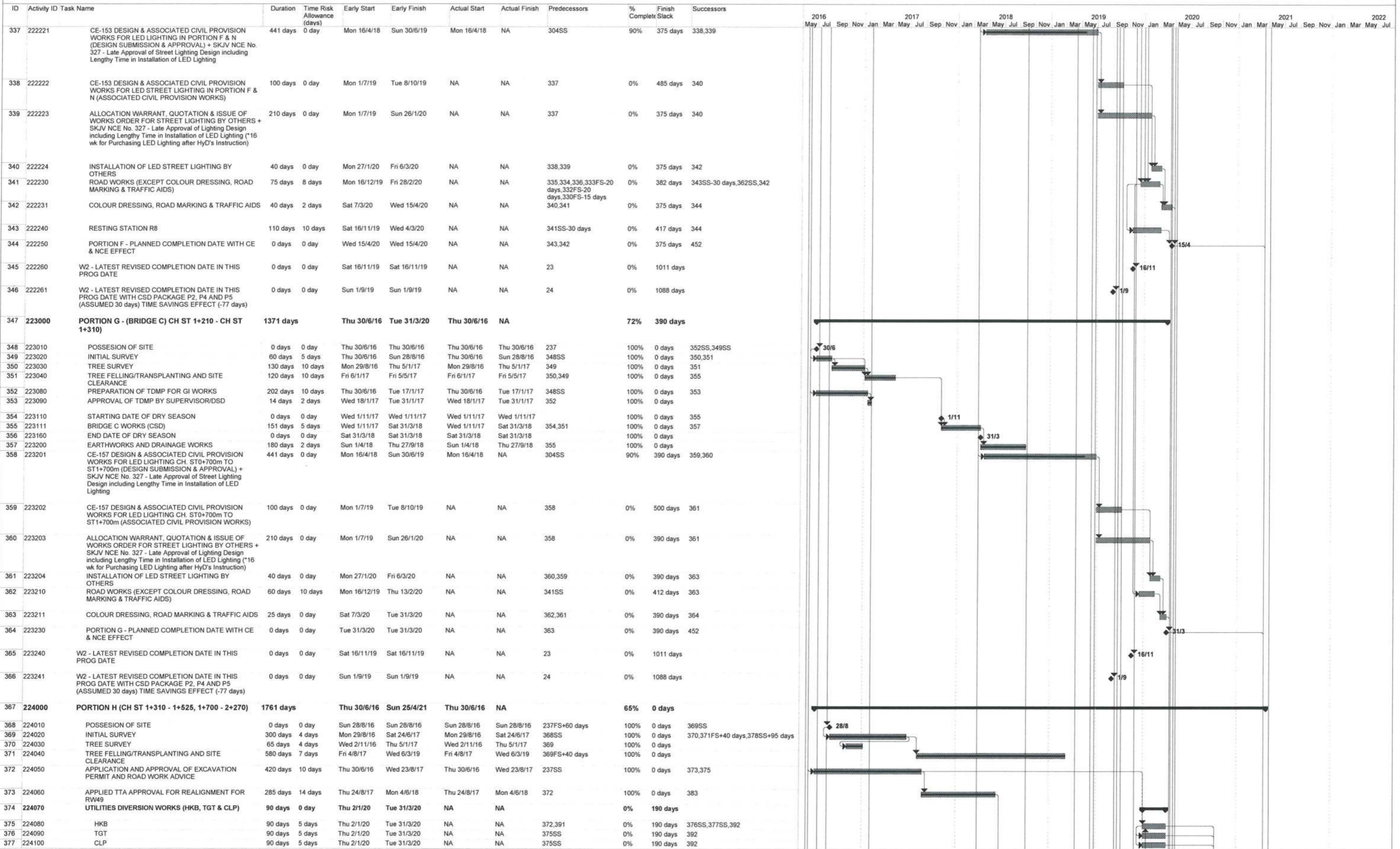
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016												2017												2018												2019												2020												2021												2022											
													May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar																								
242	221040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE (+ DELAY DUE TO INCLEMENT WEATHER)	102 days	5 days	Fri 6/1/17	Mon 17/4/17	Fri 6/1/17	Mon 17/4/17	240,241	100%	0 days	248SS+14 days,256,245FS+136 days,294SS,279,289																																																																																				
243	221050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVISE	240 days	0 day	Thu 30/8/16	Fri 24/2/17	Thu 30/8/16	Fri 24/2/17	237SS	100%	0 days																																																																																					
244	221060	UTILITIES DIVERSION WORKS (GAS MAIN, CLP, WSD)	464 days	0 day	Fri 1/9/17	Sat 8/12/18	Fri 1/9/17	Sat 8/12/18		100%	0 days																																																																																					
245	221070	GAS MAIN (Culvert D4) (NO DIVERSION IS REQUIRED)	90 days	5 days	Fri 1/9/17	Wed 29/11/17	Fri 1/9/17	Wed 29/11/17	242FS+136 days	100%	0 days																																																																																					
246	221080	CLP (NOT REQUIRED)	90 days	5 days	Sat 13/1/18	Thu 12/4/18	Sat 13/1/18	Thu 12/4/18	247SS	100%	0 days																																																																																					
247	221081	WSD	330 days	5 days	Sat 13/1/18	Sat 8/12/18	Sat 13/1/18	Sat 8/12/18	276SS	100%	0 days	246SS																																																																																				
248	221090	GROUND INVESTIGATION WORKS (9 NOS. BOREHOLE & TRIAL PITS)	45 days	4 days	Fri 20/1/17	Sun 5/3/17	Fri 20/1/17	Sun 5/3/17	242SS+14 days	100%	0 days	256,249SS,279																																																																																				
249	221100	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Fri 20/1/17	Thu 9/2/17	Fri 20/1/17	Thu 9/2/17	248SS	100%	0 days	250																																																																																				
250	221110	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Fri 10/2/17	Thu 2/3/17	Fri 10/2/17	Thu 2/3/17	249	100%	0 days	256,279FS+100 days																																																																																				
251	221120	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	Thu 30/6/16	Tue 13/9/16	255	100%	0 days	252																																																																																				
252	221130	TTM APPROVAL BY RSS/TMLG	90 days	7 days	Wed 14/9/16	Mon 12/12/16	Wed 14/9/16	Mon 12/12/16	251	100%	0 days	256																																																																																				
253	221140	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	Mon 29/8/16	Thu 27/10/16	239	100%	0 days	254																																																																																				
254	221150	APPROVAL OF TDMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	Fri 28/10/16	Sat 26/11/16	253	100%	0 days	256																																																																																				
255	221160	MP 5+465 - MP 5+515	875 days		Wed 20/9/17	Tue 11/2/20	Wed 20/9/17	NA		91%	0 days																																																																																					
256	221170	RETAINING WALL - RW D02 & D04 (80M) + SKJV NCE	440 days	2 days	Wed 20/9/17	Mon 3/12/18	Wed 20/9/17	Mon 3/12/18	242,252,254,248,250,279S:	100%	0 days	277SS+25 days,272SS+115 days,261SS+330 days,260,263,257																																																																																				
257		Remaining Work on RW D2 waiting for CE on RW D3	45 days		Sun 29/12/19	Tue 11/2/20	NA	NA	256,265FS-15 days	0%	395 days	269																																																																																				
258	221180	MP 5+515 - MP 5+595	405 days		Thu 16/8/18	Tue 24/9/19	Thu 16/8/18	NA		95%	535 days																																																																																					
259	221190	RETAINING WALL - RW D05	100 days	2 days	Mon 17/6/19	Tue 24/9/19	Mon 17/6/19	Tue 24/9/19	260	80%	535 days	269																																																																																				
260	221191	RETAINING WALL - RW D06	195 days	0 day	Tue 4/12/18	Sun 16/6/19	Tue 4/12/18	Sun 16/6/19	256,261	100%	0 days	259																																																																																				
261	221200	RETAINING WALL - RW D07 (70M) - CSD	70 days	3 days	Thu 16/8/18	Wed 24/10/18	Thu 16/8/18	Wed 24/10/18	256SS+330 days	100%	0 days	260																																																																																				
262	221210	MP 5+280 - MP 6+020	877 days		Wed 1/11/17	Thu 26/3/20	Wed 1/11/17	NA		25%	395 days																																																																																					
263	221211	RETAINING WALL - RW D03, SKJV NEW No. 48 - Outstanding Details of Retaining Wall RWD3. Pending for Supervisor to Resolve the Issue Up to this Prog Date	255 days	0 day	Tue 4/12/18	Thu 15/8/19	Tue 4/12/18	NA	256	0%	395 days	264																																																																																				
264	221212	RETAINING WALL - RW D03, Site Works Preparation	30 days	0 day	Fri 16/8/19	Sat 14/9/19	NA	NA	263	0%	395 days	265																																																																																				
265	221220	RETAINING WALL - RW D03, Site Works (EP PERMIT START ON SEPT ONLY)	120 days	3 days	Sun 15/9/19	Sun 12/1/20	NA	NA	264	0%	395 days	257FS-15 days																																																																																				
266	221225	START DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	267																																																																																				
267	221230	BOX CULVERT D4 + CE-048 REVISED BOX CULVERT D4	151 days	4 days	Wed 1/11/17	Sat 31/3/18	Wed 1/11/17	Sat 31/3/18	266	100%	0 days	268																																																																																				
268	221235	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	267	100%	0 days																																																																																					
269	221250	ROAD WORKS FOR REALIGNMENT	30 days	3 days	Wed 12/2/20	Thu 12/3/20	NA	NA	277,257,259	0%	395 days	270,281SS-90 days																																																																																				
270	221260	REALIGNMENT SAN TAM ROAD	14 days	2 days	Fri 13/3/20	Thu 26/3/20	NA	NA	269	0%	395 days	310																																																																																				
271	221270	MP 5+900 - MP 6+020	180 days		Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18		100%	0 days																																																																																					
272	221280	RETAINING WALL - RW D15 (113M) - CSD	180 days	10 days	Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18	256SS+115 days	100%	0 days	274SS,276SS																																																																																				
273	221290	MP 5+ 595 - MP 5+900	180 days		Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18		100%	0 days																																																																																					
274	221300	RETAINING WALL - RW D10 (50M) - CSD	100 days	7 days	Sat 13/1/18	Sun 22/4/18	Sat 13/1/18	Sun 22/4/18	272SS	100%	0 days	275																																																																																				
275	221310	RETAINING WALL - RW D08 (66M) - CSD	80 days	8 days	Mon 23/4/18	Wed 11/7/18	Mon 23/4/18	Wed 11/7/18	274	100%	0 days	274																																																																																				
276	221320	DRAINAGE WORKS, EARTHWORKS FOR RWD15, D10 & D8	180 days	8 days	Sat 13/1/18	Wed 11/7/18	Sat 13/1/18	Wed 11/7/18	272SS	100%	0 days	308,247SS																																																																																				
277	221325	DRAINAGE WORKS, EARTHWORKS FROM MP5+280 TO 6+020 (Excluding RWD15, 10 & D8)	820 days	3 days	Sun 15/10/17	Sun 12/1/20	Sun 15/10/17	NA	256SS+25 days	70%	425 days	269																																																																																				
278	221330	MP 6+420 - MP 6+530	930 days		Sun 11/6/17	Fri 27/12/19	Sun 11/6/17	NA		95%	485 days																																																																																					
279	221340	RETAINING WALL - RW D25	570 days	3 days	Sun 11/6/17	Tue 1/1/19	Sun 11/6/17	Tue 1/1/19	248,250FS+100 days,242	100%	0 days	289SS,256SS+101 days,280SS+220 days,281																																																																																				
280	221342	RETAINING WALL - RW D26 (+ SKJV NCE)	260 days	2 days	Wed 17/1/18	Wed 3/10/18	Wed 17/1/18	Wed 3/10/18	279SS+220 days	100%	0 days	281,301																																																																																				
281	221344	ROAD WORKS FOR REALIGNMENT	30 days	2 days	Thu 14/11/19	Fri 13/12/19	NA	NA	280,279,269SS-90 days	0%	485 days	282																																																																																				
282	221346	REALIGNMENT SHEK WU WAI ROAD	14 days	2 days	Sat 14/12/19	Fri 27/12/19	NA	NA		0%	485 days	310																																																																																				
283	221350	MP 6+020 - MP 6+530	151 days		Wed 1/11/17	Sat 31/3/18	Wed 1/11/17	Sat 31/3/18		100%	0 days																																																																																					
284	221355	START DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	285																																																																																				
285	221360	BOX CULVERT D7	151 days	3 days	Wed 1/11/17	Sat 31/3/18	Wed 1/11/17	Sat 31/3/18	284	100%	0 days	286																																																																																				
286	221365	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	285	100%	0 days																																																																																					
287	221400	MP 6+020 - MP 6+160	628 days		Sun 11/6/17	Thu 28/2/19	Sun 11/6/17	Thu 28/2/19		100%	0 days																																																																																					
288	221410	RETAINING WALL - RW D18 (98M) (+ SKJV NCE)	418 days	10 days	Sun 7/1/18	Thu 28/2/19	Sun 7/1/18	Thu 28/2/19	289	100%	0 days																																																																																					
289	221420	RETAINING WALL - RW D17 (65M) (+ SKJV NCE)	210 days	10 days	Sun 11/6/17	Sat 6/1/18	Sun 11/6/17	Sat 6/1/18	279SS,242	100%	0 days	302,291,288																																																																																				
290	221430	MP 6+160 - MP 6+230	341 days		Wed 31/5/17	Sun 6/5/18	Wed 31/5/17	Sun 6/5/18		100%	0 days																																																																																					
291	221440	RETAINING WALL - RW D19A, B (53M) (+ SKJV NCE)	120 days	7 days	Sun 7/1/18	Sun 6/5/18	Sun 7/1/18	Sun 6/5/18	292,289	100%	0 days	302																																																																																				
292	221450	RETAINING WALL - RW D20 (U) (22M) (+ SKJV NCE)	148 days	5 days	Wed 31/5/17	Wed 25/10/17	Wed 31/5/17	Wed 25/10/17	298SS+10 days	100%	0 days	291,302																																																																																				
293	221460	MP 6+230 - MP 6+330	293 days		Fri 6/1/17	Wed 25/10/17	Fri 6/1/17	Wed 25/10/17		100%	0 days																																																																																					
294	221470	RECTANGULAR CHANNEL	105 days	5 days	Fri 6/1/17	Thu 20/4/17	Fri 6/1/17	Thu 20/4/17	242SS	100%	0 days	295SS+30 days,296																																																																																				
295	221480	BOX CULVERT D5 + 4 DAY DELAY (INCLEMENT WEATHER) IN MAR & APR 17 + DELAY OF WORKS DUE TO REVISED DETAILS & ALIGNMENT OF STREAM DECKING (SKJV NCE No.20 & 33)	75 days	4 days	Sun 5/2/17	Thu 20/4/17	Sun 5/2/17	Thu 20/4/17	294SS+30 days	100%	0 days	297SS+22 days,296																																																																																				
296	221490	RETAINING WALL - RW D21(U) (26M) + 48 days DELAY (INCLEMENT WEATHER FROM MAY TO JUL 2017) + SKJV NCE No.72 & 101	188 days	4 days	Fri 21/4/17	Wed 25/10/17	Fri 21/4/17	Wed 25/10/17	297,295,294	100%	0 days	298SS+30 days,302																																																																																				
297	221500	BOX CULVERT D6 + 8 DAY DELAY (INCLEMENT WEATHER) IN MAR & APR 17 + DELAY OF WORKS DUE TO REVISED DETAILS & ALIGNMENT OF STREAM DECKING (SKJV NCE No. 20 & 32)	53 days	4 days	Mon 27/2/17	Thu 20/4/17	Mon 27/2/17	Thu 20/4/17	295SS+22 days	100%	0 days	296																																																																																				
298	221510	RETAINING WALL - RW D22 (U) (26M) + 46 days DELAY (INCLEMENT WEATHER FROM MAY TO AUG 2017) + SKJV NCE No.72 & 101	158 days	4 days	Sun 21/5/17	Wed 25/10/17	Sun 21/5/17	Wed 25/10/17	296SS+30 days	100%	0 days	299SS+20 days,292SS+10 days,302																																																																																				
299	221520	RETAINING WALL - RW D23 (U) (21M) + 32 days DELAY (INCLEMENT WEATHER FROM MAY TO AUG 2017) + SKJV NCE No. 72 & 101	136 days	4 days	Sat 10/6/17	Mon 23/10/17	Sat 10/6/17	Mon 23/10/17	298SS+20 days	100%	0 days	302																																																																																				
300	221530	MP 6+372 - MP 6+410	731 days		Mon 16/4/18	Wed 15/4/20	Mon 16/4/18																																																																																									

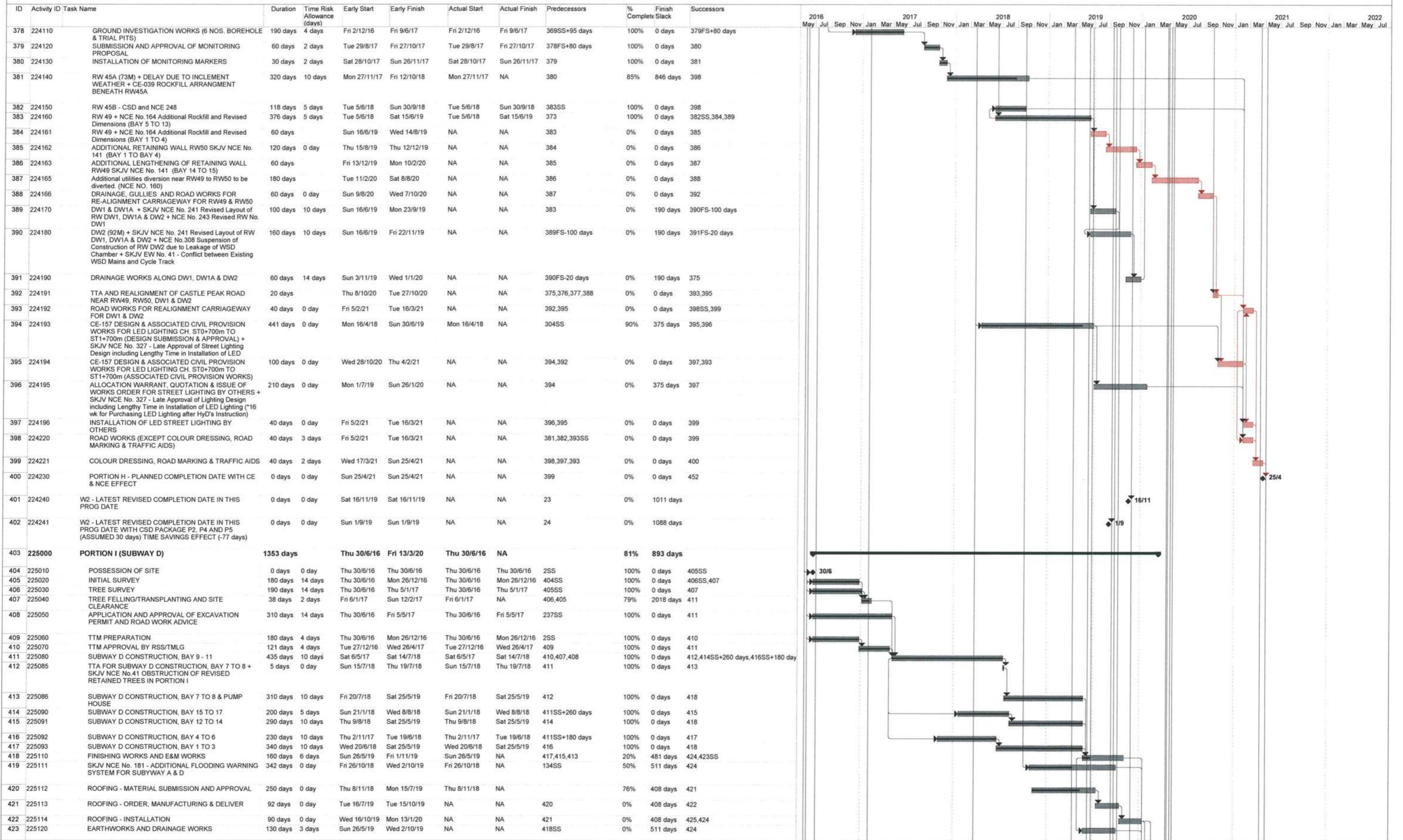
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016	2017	2018	2019	2020	2021	2022	
302	221545	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS FROM MP6+020 TO 6+530	350 days	10 days	Thu 4/10/18	Wed 18/9/19	Thu 4/10/18	NA	289,291,292,296,298,299,300	80%	545 days	308FF								
303	221546	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION E	300 days	5 days	Thu 1/11/18	Tue 27/8/19	Thu 1/11/18	NA		70%	567 days	308FF								
304	221547	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION E (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	226SS	90%	375 days	305,306,337SS,358SS,394SS,443SS								
305	221548	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION E (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	304	0%	485 days	307								
306	221549	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	304	0%	375 days	307								
307	221550	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	305,306	0%	375 days	309								
308	221551	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	310 days	5 days	Tue 13/11/18	Wed 18/9/19	NA	NA	302FF,276,303FF	0%	545 days	309								
309	221552	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	0 day	Sat 7/3/20	Wed 15/4/20	NA	NA	308,307	0%	375 days	310								
310	221555	PORTION E - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	270,282,309	0%	375 days	452								
311	221560	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days									
312	221561	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days									
313	222000	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1386 days		Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		80%	375 days									
314	222010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	237FS+151 days	100%	0 days	315SS,316SS								
315	222020	INITIAL SURVEY	215 days	4 days	Mon 28/11/16	Fri 30/6/17	Mon 28/11/16	Fri 30/6/17	314SS	100%	0 days	317,327SS+115 days								
316	222030	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	314SS	100%	0 days	317								
317	222040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE (+ DELAY DUE TO INCLEMENT WEATHER)	150 days	5 days	Sat 1/7/17	Mon 27/11/17	Sat 1/7/17	Mon 27/11/17	316,315	100%	0 days	318,336								
318	222050	UTILITIES DIVERSION WORKS (CLP, TOWN GAS)	90 days	0 day	Tue 28/11/17	Sun 25/2/18	Tue 28/11/17	Sun 25/2/18	317	100%	0 days									
319	222120	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	565 days	0 day	Thu 30/6/16	Mon 15/1/18	Thu 30/6/16	Mon 15/1/18	2SS	100%	0 days	320								
320	222130	ARRANGEMENT OF SITE INVESTIGATION WORKS	7 days	0 day	Tue 16/1/18	Mon 22/1/18	Tue 16/1/18	Mon 22/1/18	319	100%	0 days	321								
321	222140	SITE INVESTIGATION WORKS AND TESTING	60 days	0 day	Tue 23/1/18	Fri 23/3/18	Tue 23/1/18	Fri 23/3/18	320	100%	0 days	322,324,331								
322	222145	AWAITING FOR INSTRUCTION FOR REMEDIAL WORKS FOR CONTAMINATED SOIL	363 days	2 days	Sat 24/3/18	Thu 21/3/19	Sat 24/3/18	Thu 21/3/19	321	100%	0 days	323,325SS								
323	222146	ISSUED DATE OF CE-158 TREATMENT OF CONTAMINATED SOIL IN PORTION F	1 day	0 day	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	322	100%	0 days									
324	222150	PREPARATION WORKS FOR TREATMENT OF CONTAMINATED SOIL	30 days	3 days	Sat 24/3/18	Sun 22/4/18	Sat 24/3/18	Sun 22/4/18	321	100%	0 days	325SS								
325	222155	IMPLEMENTATION OF DE-CONTAMINATION WORKS & ASSOCIATED EARTHWORK & DRAINAGE WORKS	479 days	5 days	Sat 24/3/18	Mon 15/7/19	Sat 24/3/18	Mon 15/7/19	324SS,322SS	100%	0 days	326SS+55 days,332								
326	222156	ADDITIONAL RETAINING WALL RWD26A, RWD26B, RWD26C at Chainage CH-ST-6+500 to CH-6+650 (SKJV NCE No. 149 - Additional Drainage and Revised Retaining Wall RWD26A, RWD26B and RWD26C)	280 days	0 day	Fri 18/5/18	Thu 21/2/19	Fri 18/5/18	Thu 21/2/19	325SS+55 days	100%	0 days									
327	222160	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Thu 23/3/17	Wed 5/4/17	Thu 23/3/17	Wed 5/4/17	315SS+115 days	100%	0 days	328								
328	222165	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Thu 6/4/17	Wed 26/4/17	Thu 6/4/17	Wed 26/4/17	327	100%	0 days	329								
329	222170	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Thu 27/4/17	Wed 17/5/17	Thu 27/4/17	Wed 17/5/17	328	100%	0 days									
330	222180	RW 42 (60M) - CSD	60 days	7 days	Fri 1/11/19	Mon 30/12/19	NA	NA	441SS	0%	382 days	341FS-15 days								
331	222190	RW 43 (+ SKJV NCE No. 91 Additional Bays/Revised Details and Realignment of Storm Drain Pipe, No. 118 Revised RC Details, No.148 Additional Rockfill Arrangement, No.195 Revised Details of Bay 5,)	285 days	5 days	Sat 24/3/18	Wed 21/1/19	Sat 24/3/18	Wed 21/1/19	321	100%	0 days	335								
332	222200	RW 44 (36M U)	80 days	5 days	Tue 1/10/19	Thu 19/12/19	NA	NA	325,334	0%	398 days	341FS-20 days								
333	222210	RAMP PR3 CONSTRUCTION	80 days	3 days	Tue 1/10/19	Thu 19/12/19	NA	NA	334	0%	398 days	341FS-20 days								
334	222212	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION F	214 days	5 days	Fri 1/3/19	Mon 30/9/19	Fri 1/3/19	NA		70%	398 days	341,332,333								
335	222215	EARTHWORKS AND DRAINAGE WORK RW43, RWD26A, RWD26B & RWD26C, RW43	130 days	10 days	Thu 3/1/19	Sun 12/5/19	Thu 3/1/19	Sun 12/5/19	331	100%	0 days	341								
336	222220	EARTHWORKS AND DRAINAGE WORKS AT LOCATION OTHER THAN RW42, RW43, RW44, RW26A, RW26B, RW26C AND BOUNDARY WALL AT PORTION F	270 days	3 days	Tue 28/11/17	Fri 24/8/18	Tue 28/11/17	Fri 24/8/18	317	100%	0 days	341								

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

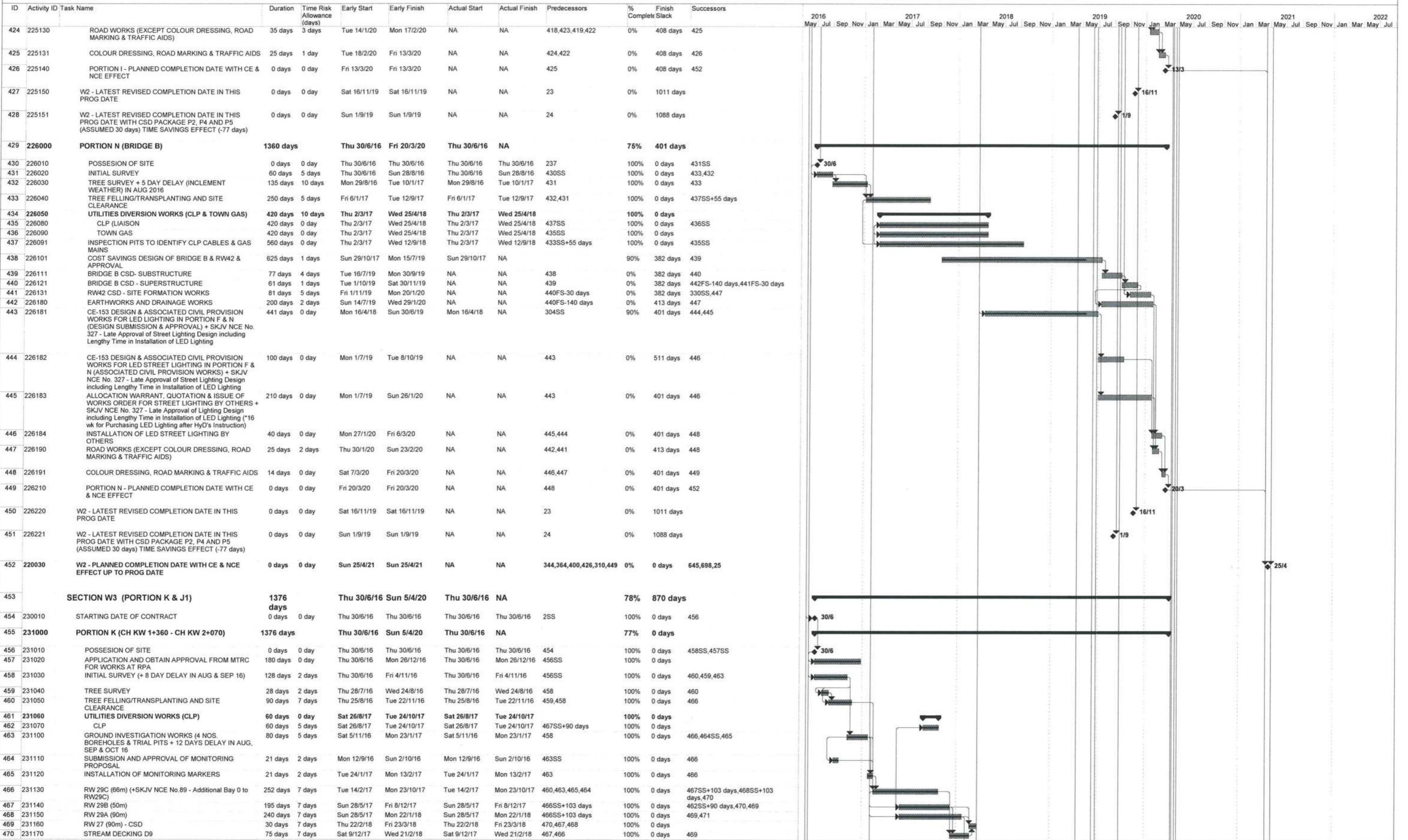
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



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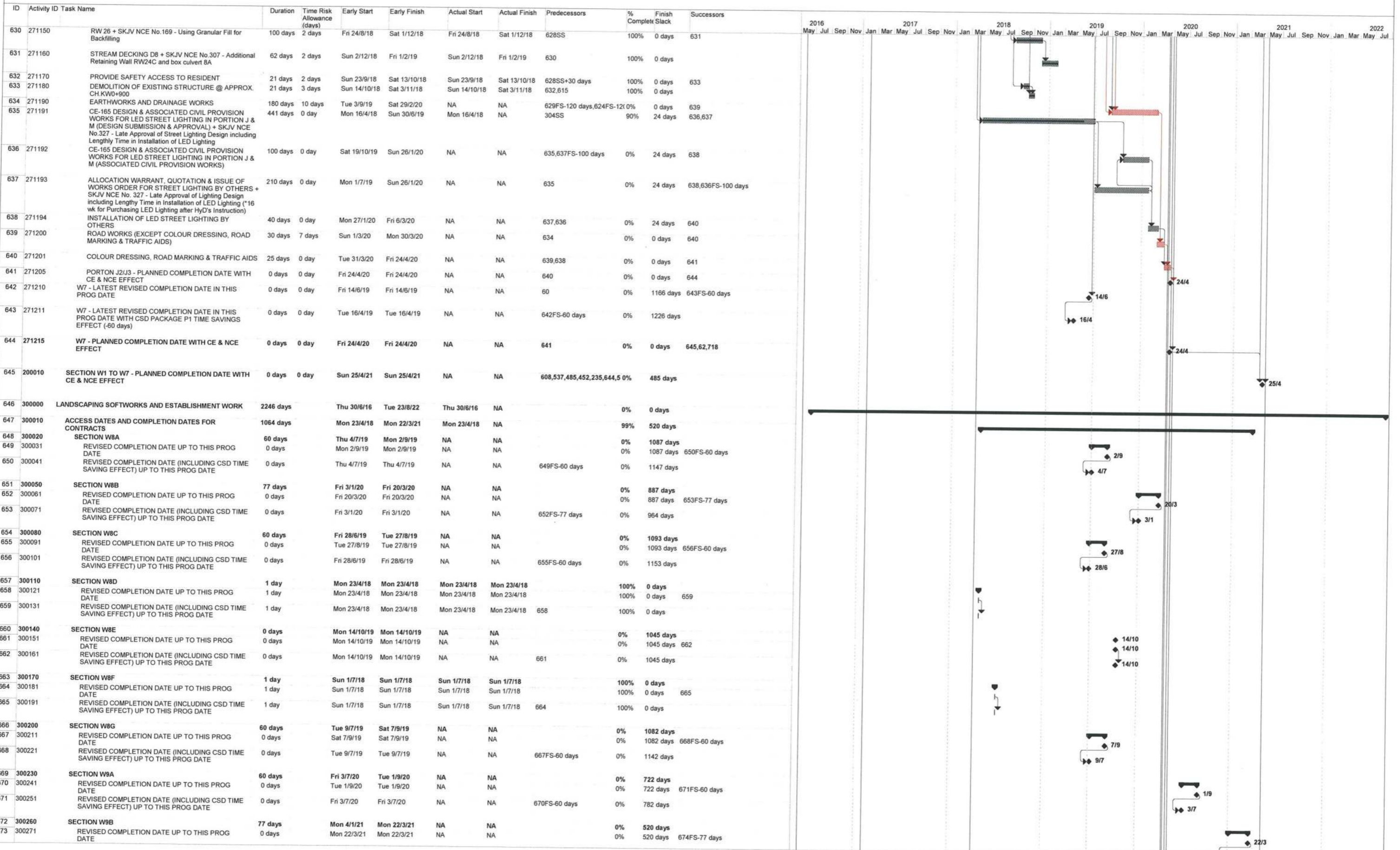


Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	



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

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																											
674	300281	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Mon 4/1/21	Mon 4/1/21	NA	NA	673FS-77 days	0%	597 days		[Gantt Chart]																											
675	300290	SECTION W9C	60 days		Fri 26/6/20	Tue 25/8/20	NA	NA		0%	729 days		[Gantt Chart]																											
676	300301	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 25/8/20	Tue 25/8/20	NA	NA		0%	729 days	677FS-60 days	[Gantt Chart]																											
677	300311	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 26/6/20	Fri 26/6/20	NA	NA	676FS-60 days	0%	789 days		[Gantt Chart]																											
678	300320	SECTION W9D	0 days		Tue 23/4/19	Tue 23/4/19	NA	NA		0%	1219 days		[Gantt Chart]																											
679	300331	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 23/4/19	Tue 23/4/19	NA	NA		0%	1219 days	680	[Gantt Chart]																											
680	300341	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Tue 23/4/19	Tue 23/4/19	NA	NA	679	0%	1219 days		[Gantt Chart]																											
681	300350	SECTION W9E	0 days		Tue 13/10/20	Tue 13/10/20	NA	NA		0%	680 days		[Gantt Chart]																											
682	300361	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 13/10/20	Tue 13/10/20	NA	NA		0%	680 days	683	[Gantt Chart]																											
683	300371	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Tue 13/10/20	Tue 13/10/20	NA	NA	682	0%	680 days		[Gantt Chart]																											
684	300380	SECTION W9F	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA		0%	1136 days		[Gantt Chart]																											
685	300391	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA		0%	1136 days	686	[Gantt Chart]																											
686	300401	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA	685	0%	1136 days		[Gantt Chart]																											
687	300410	SECTION W9G	60 days		Thu 9/7/20	Mon 7/9/20	NA	NA		0%	716 days		[Gantt Chart]																											
688	300421	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 7/9/20	Mon 7/9/20	NA	NA		0%	716 days	689FS-60 days	[Gantt Chart]																											
689	300431	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Thu 9/7/20	Thu 9/7/20	NA	NA	688FS-60 days	0%	776 days		[Gantt Chart]																											
690													[Gantt Chart]																											
691	400000	PLANNED WORK PROGRAMME	2246 days		Thu 30/6/16	Tue 23/8/22	NA	NA		0%	0 days		[Gantt Chart]																											
692	400010	SECTION W8A	1476 days		Thu 30/6/16	Tue 14/7/20	NA	NA		0%	0 days		[Gantt Chart]																											
693	400020	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1386 days	694	[Gantt Chart]																											
694	400030	LANDSCAPING SOFTWARES	90 days	7 days	Thu 16/4/20	Tue 14/7/20	NA	NA	235,693	0%	0 days	695	[Gantt Chart]																											
695	400040	PLANNED COMPLETION OF SECTION W8A	0 days		Tue 14/7/20	Tue 14/7/20	NA	NA	694	0%	0 days	722	[Gantt Chart]																											
696	400050	SECTION W8B	1881 days		Thu 30/6/16	Mon 23/8/21	NA	NA		0%	0 days		[Gantt Chart]																											
697	400060	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1761 days	698	[Gantt Chart]																											
698	400070	LANDSCAPING SOFTWARES	120 days	10 days	Mon 26/4/21	Mon 23/8/21	NA	NA	697,452	0%	0 days	699	[Gantt Chart]																											
699	400080	PLANNED COMPLETION OF SECTION W8B	0 days		Mon 23/8/21	Mon 23/8/21	NA	NA	698	0%	0 days	726	[Gantt Chart]																											
700	400090	SECTION W8C	1466 days		Thu 30/6/16	Sat 4/7/20	NA	NA		0%	0 days		[Gantt Chart]																											
701	400100	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1376 days	702	[Gantt Chart]																											
702	400110	LANDSCAPING SOFTWARES	90 days	7 days	Mon 6/4/20	Sat 4/7/20	NA	NA	485,701	0%	0 days	703	[Gantt Chart]																											
703	400120	PLANNED COMPLETION OF SECTION W8C	0 days		Sat 4/7/20	Sat 4/7/20	NA	NA	702	0%	0 days	730	[Gantt Chart]																											
704	400130	SECTION W8D	660 days		Thu 30/6/16	Fri 20/4/18	NA	NA		0%	0 days		[Gantt Chart]																											
705	400140	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	630 days	706	[Gantt Chart]																											
706	400150	LANDSCAPING SOFTWARES	30 days	3 days	Thu 22/3/18	Fri 20/4/18	NA	NA	537,705	0%	0 days	707	[Gantt Chart]																											
707	400160	PLANNED COMPLETION OF SECTION W8D	0 days		Fri 20/4/18	Fri 20/4/18	NA	NA	706	0%	0 days	734	[Gantt Chart]																											
708	400170	SECTION W8E	1401 days		Thu 30/6/16	Thu 30/4/20	NA	NA		0%	0 days		[Gantt Chart]																											
709	400180	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1371 days	710	[Gantt Chart]																											
710	400190	LANDSCAPING SOFTWARES	30 days	3 days	Wed 1/4/20	Thu 30/4/20	NA	NA	709,596	0%	0 days	711	[Gantt Chart]																											
711	400200	PLANNED COMPLETION OF SECTION W8E	0 days		Thu 30/4/20	Thu 30/4/20	NA	NA	710	0%	0 days	738	[Gantt Chart]																											
712	400210	SECTION W8F	746 days		Thu 30/6/16	Sun 15/7/18	NA	NA		0%	0 days		[Gantt Chart]																											
713	400220	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	716 days	714	[Gantt Chart]																											
714	400230	LANDSCAPING SOFTWARES	30 days	3 days	Sat 16/6/18	Sun 15/7/18	NA	NA	713,608	0%	0 days	715	[Gantt Chart]																											
715	400240	PLANNED COMPLETION OF SECTION W8F	0 days		Sun 15/7/18	Sun 15/7/18	NA	NA	714	0%	0 days	742	[Gantt Chart]																											
716	400250	SECTION W8G	1235 days		Tue 7/3/17	Thu 23/7/20	NA	NA		0%	0 days		[Gantt Chart]																											
717	400260	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	NA	NA	56SS	0%	1145 days	718	[Gantt Chart]																											
718	400270	LANDSCAPING SOFTWARES	90 days	7 days	Sat 25/4/20	Thu 23/7/20	NA	NA	717,644	0%	0 days	719	[Gantt Chart]																											
719	400280	PLANNED COMPLETION OF SECTION W8G	0 days		Thu 23/7/20	Thu 23/7/20	NA	NA	718	0%	0 days	746	[Gantt Chart]																											
720	400290	SECTION W8A	1841 days		Thu 30/6/16	Wed 14/7/21	NA	NA		0%	0 days		[Gantt Chart]																											
721	400300	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1476 days	722	[Gantt Chart]																											
722	400310	ESTABLISHMENT WORKS	365 days	30 days	Wed 15/7/20	Wed 14/7/21	NA	NA	695,721	0%	0 days	723	[Gantt Chart]																											
723	400320	PLANNED COMPLETION OF SECTION W8A	0 days		Wed 14/7/21	Wed 14/7/21	NA	NA	722	0%	0 days	748FS+405 days	[Gantt Chart]																											
724	400330	SECTION W8B	2246 days		Thu 30/6/16	Tue 23/8/22	NA	NA		0%	0 days		[Gantt Chart]																											
725	400340	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1881 days	726	[Gantt Chart]																											
726	400350	ESTABLISHMENT WORKS	365 days	30 days	Tue 24/8/21	Tue 23/8/22	NA	NA	725,699	0%	0 days	727	[Gantt Chart]																											
727	400360	PLANNED COMPLETION OF SECTION W8B	0 days		Tue 23/8/22	Tue 23/8/22	NA	NA	726	0%	0 days	748	[Gantt Chart]																											
728	400370	SECTION W8C	1831 days		Thu 30/6/16	Sun 4/7/21	NA	NA		0%	0 days		[Gantt Chart]																											
729	400380	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1466 days	730	[Gantt Chart]																											
730	400390	ESTABLISHMENT WORKS	365 days	30 days	Sun 5/7/20	Sun 4/7/21	NA	NA	703,729	0%	0 days	731	[Gantt Chart]																											
731	400400	PLANNED COMPLETION OF SECTION W8C	0 days		Sun 4/7/21	Sun 4/7/21	NA	NA	730	0%	0 days	748FS+415 days	[Gantt Chart]																											
732	400410	SECTION W8D	1025 days		Thu 30/6/16	Sat 20/4/19	NA	NA		0%	0 days		[Gantt Chart]																											
733	400420	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	660 days	734	[Gantt Chart]																											
734	400430	ESTABLISHMENT WORKS	365 days	30 days	Sat 21/4/18	Sat 20/4/19	NA	NA	707,733	0%	0 days	735	[Gantt Chart]																											
735	400440	PLANNED COMPLETION OF SECTION W8D	0 days		Sat 20/4/19	Sat 20/4/19	NA	NA	734	0%	0 days	748FS+1221 days	[Gantt Chart]																											
736	400450	SECTION W8E	1766 days		Thu 30/6/16	Fri 30/4/21	NA	NA		0%	0 days		[Gantt Chart]																											
737	400460	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1401 days	738	[Gantt Chart]																											
738	400470	ESTABLISHMENT WORKS	365 days	30 days	Fri 1/5/20	Fri 30/4/21	NA	NA	711,737	0%	0 days	739	[Gantt Chart]																											
739	400480	PLANNED COMPLETION OF SECTION W8E	0 days		Fri 30/4/21	Fri 30/4/21	NA	NA	738	0%	0 days	748FS+480 days	[Gantt Chart]																											
740	400490	SECTION W8F	1111 days		Thu 30/6/16	Mon 15/7/19	NA	NA		0%	0 days		[Gantt Chart]																											
741	400500	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	746 days	742	[Gantt Chart]																											
742	400510	ESTABLISHMENT WORKS	365 days	30 days	Mon 16/7/18	Mon 15/7/19	NA	NA	715,741	0%	0 days	743	[Gantt Chart]																											
743	400520	PLANNED COMPLETION OF SECTION W8F	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA	742	0%	0 days	748FS+1135 days	[Gantt Chart]																											
744	400530	SECTION W8G	1600 days		Tue 7/3/17	Fri 23/7/21	NA	NA		0%	0 days		[Gantt Chart]																											
745	400540	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	NA	NA	56SS	0%	1235 days	746	[Gantt Chart]																											
746	400550	ESTABLISHMENT WORKS	365 days	30 days	Fri 24/7/20	Fri 23/7/21	NA	NA	719,745	0%	0 days	747	[Gantt Chart]																											
747	400560	PLANNED COMPLETION OF SECTION W8G	0 days		Fri 23/7/21	Fri 23/7/21	NA	NA	746	0%	0 days	748FS+396 days	[Gantt Chart]																											

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

Task: [Solid bar] Summary: [Dashed bar] External Milestone: [Diamond] Inactive Summary: [Light bar] Manual Summary Rollup: [Light bar with arrow] Finish-only: [Blue bar] Progress: [Light bar with arrow]

Split: [Dotted bar] Project Summary: [Dashed bar] Inactive Task: [Light bar] Manual Task: [Light bar] Manual Summary: [Light bar] Critical: [Red bar] Deadline: [Red bar with arrow]

Milestone: [Diamond] External Tasks: [Dashed bar] Inactive Milestone: [Light bar] Duration-only: [Light bar] Start-only: [Light bar with arrow] Critical Split: [Red bar with arrow]

**APPENDIX B
ACTION AND LIMIT LEVELS FOR
NOISE**

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for Construction Noise

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

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

**APPENDIX C
COPIES OF CALIBRATION
CERTIFICATES**

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32151
Date of Issue:	2019-09-27
Date Received:	2019-09-26
Date Tested:	2019-09-26
Date Completed:	2019-09-27
Next Due Date:	2020-09-26

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21455
Microphone No.	: 43730
Equipment No.	: N-08-07

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager



Calibration Certificate

0023002

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 : SV30A sound calibrator Serial No. /Ref. No. : 10965 / N-09-02 Object 2 : Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : Svantek
Date of calibration: 19/12/2019 Date of the recommended re-calibration: 19/12/2020	Certificate No.: 0023002 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.9dB	-0.1dB	+/- 0.3dB	1
114.0dB	114.2dB	+0.2dB	+/- 0.3dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5.The calibrations certificate may not be reproduced.

Measured value(s) **within** the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager

**APPENDIX D
ENVIRONMENTAL MONITORING
SCHEDULES**

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction
Impact Noise Monitoring Schedule (June 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun
		Noise				
7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun
		Noise				
14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun
		Noise				
21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun
		Noise				
28-Jun	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul
		Noise				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Noise Monitoring Station

- N1 - HKMLC Wong Chan Sook Ying Memorial School
- N2 - Bethel High School
- N3 - No. 159 Mai Po San Tsuen
- N5 - Dills Corner Garden Block 2
- N6 - Home of Loving Faithfulness
- N7 - Village House in Shek Wu Wai

Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction
Tentative Impact Noise Monitoring Schedule (July 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul
5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul
		Noise				
12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
		Noise				
19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul
		Noise				
26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug
		Noise				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Noise Monitoring Station

- N1 - HKMLC Wong Chan Sook Ying Memorial School
- N2 - Bethel High School
- N3 - No. 159 Mai Po San Tsuen
- N5 - Dills Corner Garden Block 2
- N6 - Home of Loving Faithfulness
- N7 - Village House in Shek Wu Wai

**APPENDIX E
NOISE MONITORING RESULTS AND
GRAPHICAL PRESENTATIONS**

Appendix E - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

N1 - HKMLC Wong Chan Sook Ying Memorial School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
02/06/2020	09:00	Cloudy	56.7	58.3	53.1	62.2	56.7 measured \leq Baseline
09/06/2020	09:00	Cloudy	58.6	60.3	54.7		58.6 measured \leq Baseline
16/06/2020	09:30	Cloudy	53.6	57.2	51.3		53.6 measured \leq Baseline
23/06/2020	09:00	Sunny	53.6	56.0	51.2		53.6 measured \leq Baseline
30/06/2020	09:00	Sunny	53.3	57.1	51.4		53.3 measured \leq Baseline

N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
02/06/2020	10:00	Cloudy	54.7	56.8	52.2	55.2	54.7 measured \leq Baseline
09/06/2020	10:15	Cloudy	55.9	58.2	53.4		47.6
16/06/2020	10:30	Cloudy	56.9	58.1	52.4		52.0
23/06/2020	10:00	Sunny	56.3	59.2	52.2		49.8
30/06/2020	10:00	Sunny	56.2	58.3	53.4		49.3

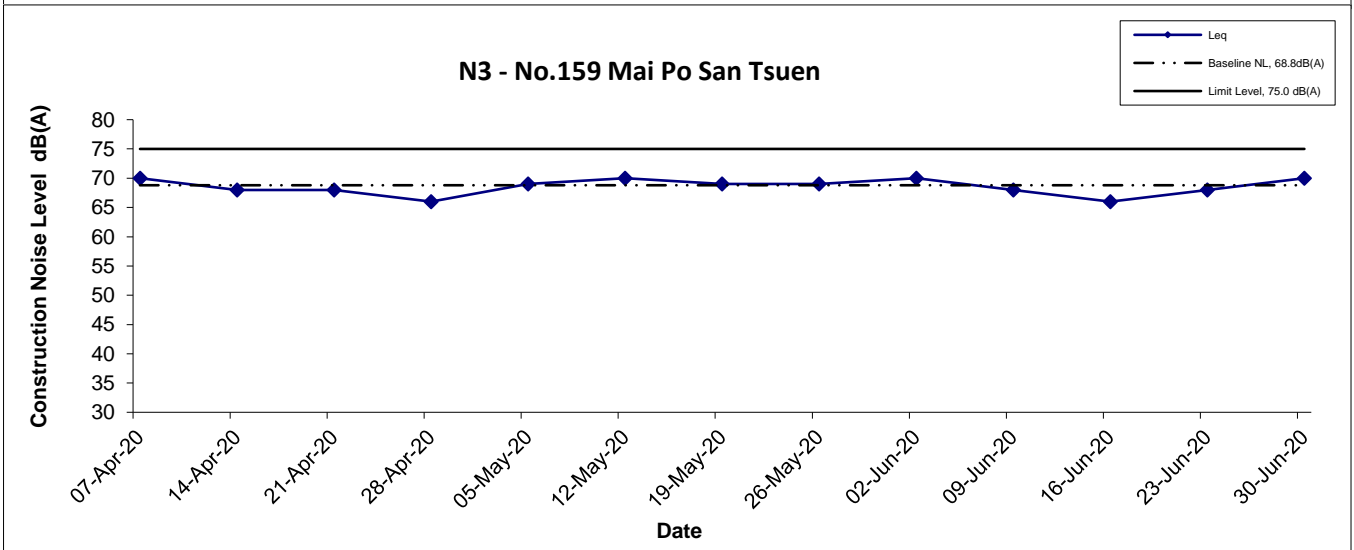
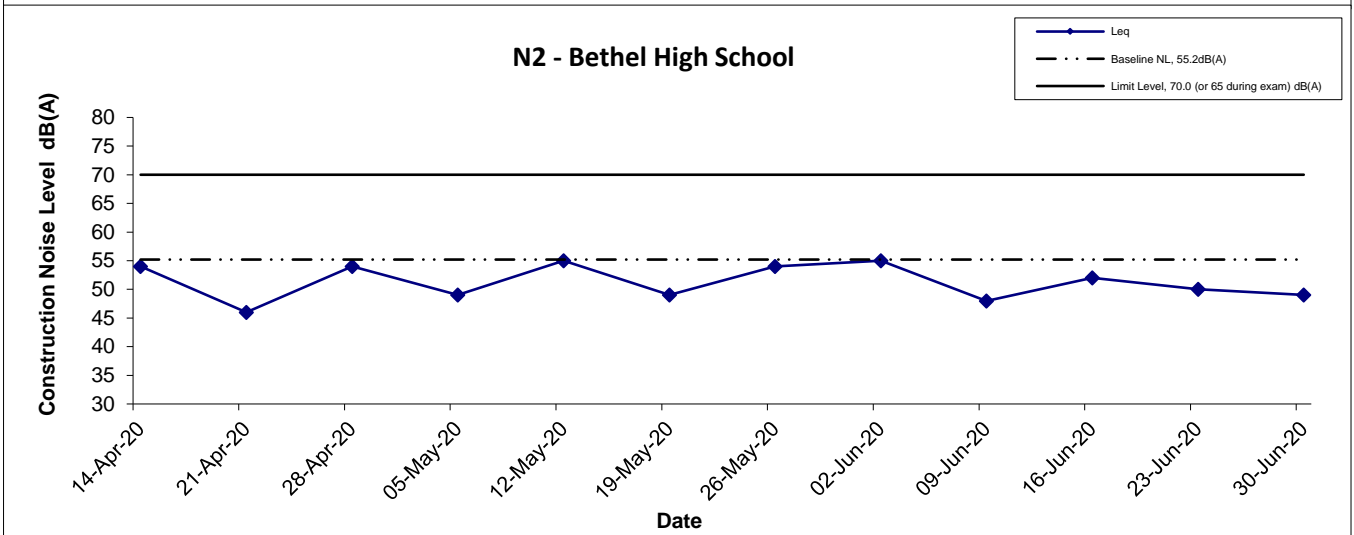
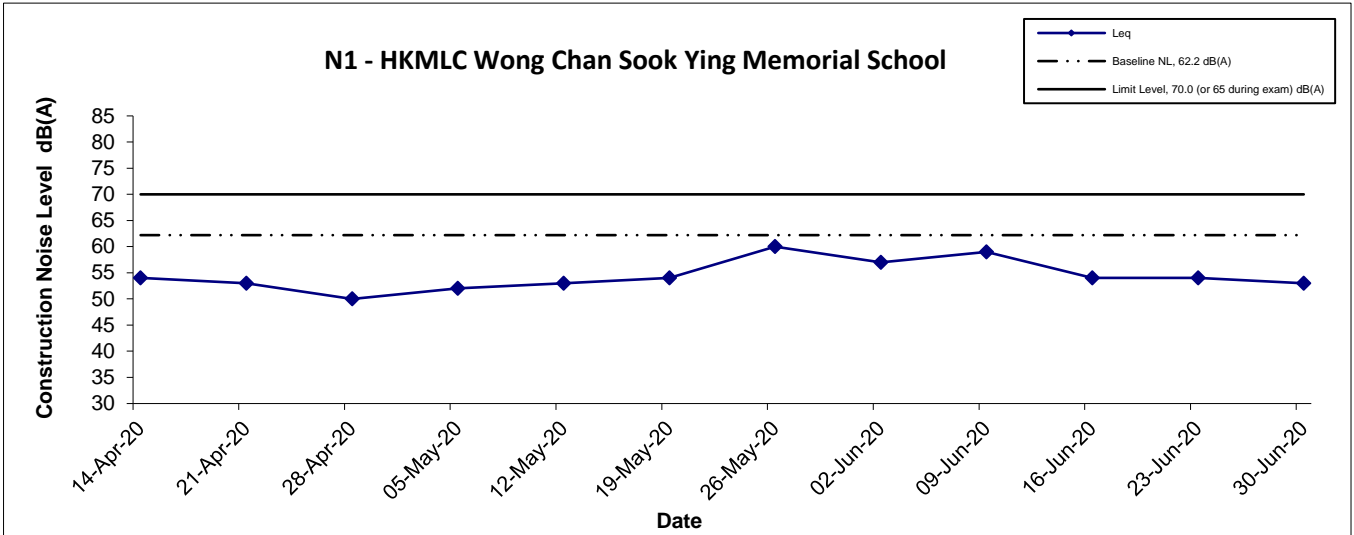
N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
02/06/2020	13:00	Cloudy	72.2	74.8	69.7	68.8	69.5
09/06/2020	13:00	Cloudy	71.4	74.3	68.2		67.9
16/06/2020	13:00	Sunny	70.6	73.1	67.2		65.9
23/06/2020	13:00	Sunny	71.5	73.6	68.4		68.2
30/06/2020	13:00	Sunny	72.6	74.5	71.0		70.3

N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
02/06/2020	15:00	Cloudy	72.8	74.7	68.7	70.7	68.6
09/06/2020	15:00	Cloudy	71.9	74.1	69.7		65.7
16/06/2020	15:00	Sunny	72.7	74.8	69.3		68.4
23/06/2020	15:00	Sunny	71.2	74.1	69.3		61.6
30/06/2020	15:00	Sunny	71.4	73.5	68.6		63.1

N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
02/06/2020	16:00	Cloudy	73.0	75.1	70.8	72.0	66.1
09/06/2020	15:45	Cloudy	72.6	74.8	69.9		63.7
16/06/2020	15:45	Sunny	72.2	74.6	69.8		58.7
23/06/2020	16:00	Sunny	72.4	74.7	68.6		61.8
30/06/2020	15:45	Sunny	72.0	74.3	70.2		72 measured \leq Baseline

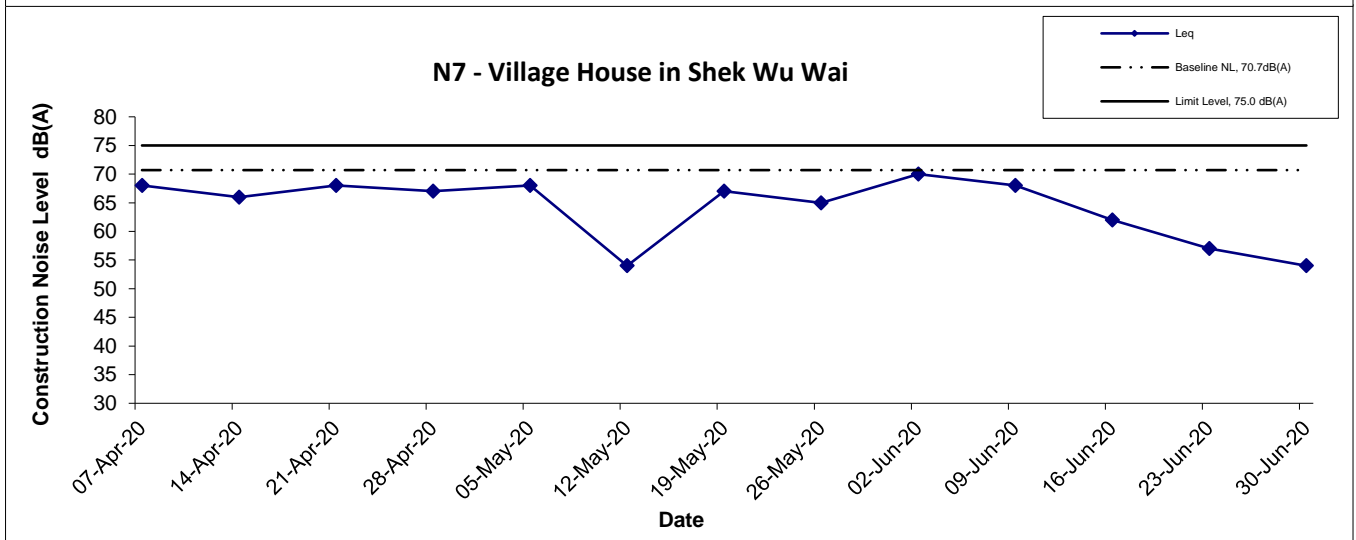
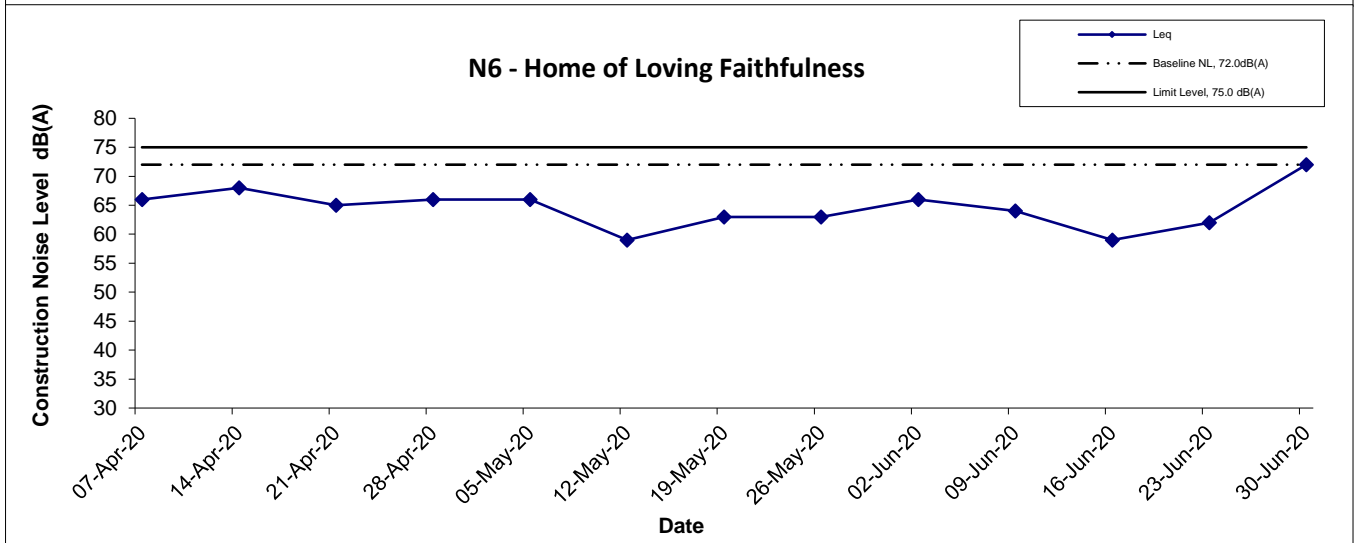
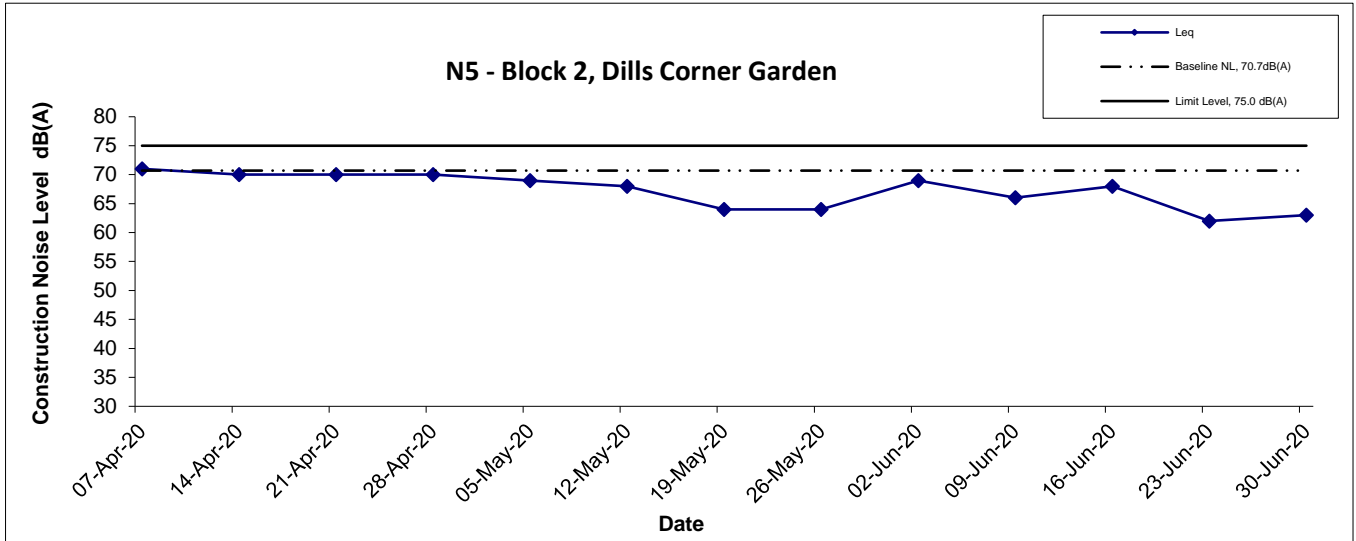
N7 - Village House in Shek Wu Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L eq	L10	L 90	L eq	L eq
02/06/2020	14:00	Cloudy	73.6	75.2	71.2	70.7	70.5
09/06/2020	14:00	Cloudy	72.5	74.6	70.3		67.8
16/06/2020	14:00	Sunny	71.2	74.2	68.0		61.6
23/06/2020	14:00	Sunny	70.9	73.4	68.3		57.4
30/06/2020	14:00	Sunny	70.8	73.6	68.2		54.4

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	N.T.S	No. MA16036	
	Date	Appendix	
	June 20	E	

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	N.T.S	No. MA16036	
	Date June 20	Appendix E	

APPENDIX F
SUMMARY OF EXCEEDANCE

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix F – Summary of Exceedance

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

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

**APPENDIX G
SITE AUDIT SUMMARY**

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works



Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200603
Date	3 June 2020 (Wednesday)
Time	09:45 – 12:00
Location	All portions

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
200416-R1 200506-R2 200603-R2	B. Water Quality No environmental deficiency was identified during site inspection.	C3 C7 C7
	C. Air Quality <ul style="list-style-type: none"> The public road around the site entrance should be kept clean at Portion F. Stockpile of dusty material should be covered at Portion D. Stockpile of dusty material should be covered at Portion F. 	
	D. Construction Noise Impact No environmental deficiency was identified during site inspection.	
200424-R2 200514-R2 200527-R1 200603-R1	E. Waste / Chemical Management <ul style="list-style-type: none"> Accumulation of general refuse should be avoided at Portion M. Accumulation of construction waste should be avoided at Portion E. Drip tray should be provided to store chemical at Portion F. Drip tray should be provided to store chemical at Portion I. 	E1 E4 E9 E9
	F. Ecology and Fisheries No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual No environmental deficiency was identified during site inspection.	
	H. Permits/Licences No environmental deficiency was identified during site inspection.	
	I. Others Follow up on the previous session (Ref. No: 200527), follow up actions are needed to be reviewed for item 200416-R1, 200424-R2, 200506-R2, 200514-R2 and 200527-R1. Item 200514-R3 was rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		3 June 2020
Checked by	Ms. Echo Hung		3 June 2020



Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200611
Date	11 June 2020 (Thursday)
Time	09:45 – 12:00
Location	Portion H: CH-ST-2300m to CH-ST-1500m, Subway A: CH-MP-2200m to CH-MPS-1030m

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
200603-R2	B. Water Quality No environmental deficiency was identified during site inspection.	C7
	C. Air Quality • Stockpile of dusty material should be covered at Portion F.	
	D. Construction Noise Impact No environmental deficiency was identified during site inspection.	
200424-R2 200514-R2 200603-R1	E. Waste / Chemical Management • Accumulation of general refuse should be avoided at Portion M. • Accumulation of construction waste should be avoided at Portion E. • Drip tray should be provided to store chemical at Portion I.	E1 E4 E9
	F. Ecology and Fisheries No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual No environmental deficiency was identified during site inspection.	
	H. Permits/Licences No environmental deficiency was identified during site inspection.	
	I. Others Follow up on the previous session (Ref. No: 200603), follow up actions are needed to be reviewed for item 200424-R2, 200514-R2 and 200603-R1 & R2. Item 200527-R1, 2005063-R2 and 200416-R1 were rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		11 June 2020
Checked by	Ms. Echo Hung		11 June 2020

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works



Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200617
Date	17 June 2020 (Wednesday)
Time	09:45 – 12:00
Location	All portions

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
200514-R2 200603-R1	B. Water Quality No environmental deficiency was identified during site inspection.	E4 E9
	C. Air Quality No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management <ul style="list-style-type: none">Accumulation of construction waste should be avoided at Portion E.Drip tray should be provided to store chemical at Portion I.	
	F. Ecology and Fisheries No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual No environmental deficiency was identified during site inspection.	
	H. Permits/Licences No environmental deficiency was identified during site inspection.	
	I. Others Follow up on the previous session (Ref. No: 200611), follow up actions are needed to be reviewed for item 200514-R2 and 200603-R1. Item 200603-R2 and 200424-R2 were rectified.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		17 June 2020
Checked by	Ms. Echo Hung		17 June 2020

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works



Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200626
Date	26 June 2020 (Friday)
Time	09:45 – 12:00
Location	Portion H: CH-ST-1304m to CH-ST-1488m & CH-ST-1700m to CH-ST-2300m, Portion I: CH-ST-1500m to CH-MP-1700m, Portion G: CH-ST-1200m to CH-ST-1300m, Portion E: CH-MP-6500 to CH-MP-5300m

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
200626-R3	B. Water Quality	B2
	<ul style="list-style-type: none"> Sandbags should be provided to prevent exposed earth into the drainage at Portion H. 	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
200514-R2	D. Construction Noise Impact	E4
	No environmental deficiency was identified during site inspection.	
200603-R1	E. Waste / Chemical Management	E9
	<ul style="list-style-type: none"> Accumulation of coonstruction waste should be avoided at Portion E. Drip tray should be provided to store chemical at Portion I. 	
200626-R1	<ul style="list-style-type: none"> Drip tray should be provided by contractor to prevent chemical leakage at Portion H. 	E9
200626-R2	<ul style="list-style-type: none"> Drip tray should be provided by contractor to prevent chemical leakage at Portion E. 	E9
	F. Ecology and Fisheries	
	No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
	No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	Follow up on the previous session (Ref. No: 200617), follow up actions are needed to be reviewedfor item 200514-R2 and 200603-R1.	
	No environmental observation was improved/rectified during the environmental site inspection.	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		29 June 2020
Checked by	Ms. Echo Hung		29 June 2020

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works



Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200630
Date	30 June 2020 (Tuesday)
Time	09:45 – 12:00
Location	All portions

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
200514-R2 200626-R2	B. Water Quality No environmental deficiency was identified during site inspection.	E4 E9
	C. Air Quality No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management <ul style="list-style-type: none">Accumulation of construction waste should be avoided at Portion E.Drip tray should be provided by contractor to prevent chemical leakage at Portion E.	
	F. Ecology and Fisheries No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual No environmental deficiency was identified during site inspection.	
	H. Permits/Licences No environmental deficiency was identified during site inspection.	
	I. Others Follow up on the previous session (Ref. No: 200626), follow up actions are needed to be reviewed for item 200514-R2 and 200626-R2. Item 200603-R1, 200626-R1 and 200626-R3	

	Name	Signature	Date
Recorded by	Mr. Eric Yan		30 June 2020
Checked by	Ms. Echo Hung		30 June 2020

APPENDIX H
EVENT AND ACTION PLANS

Appendix H - Event and Action Plans

Event and Action Plan for Construction Noise

EVENT	ACTION			
	ET LEADER	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"> 1. Notify IC(E) and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IC(E) and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IC(E); 2. Implement noise mitigation proposals.
Limit Level being exceeded	<ol style="list-style-type: none"> 1. Notify IC(E), ER, EPD and Contractor; 2. Identify source; 3. Repeat measurement to confirm findings 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IC(E), ER and EPD the causes & actions taken for the exceedances; 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, consider what portion of the 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposal if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix H - Event and Action Plans

	<p>7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring</p>		<p>work is responsible and instruct the Contractor to stop that portion of the work until the exceedance is abated.</p>	
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**APPENDIX I
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Air Quality			
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage 	*
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides 	*
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet 	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Noise Impact			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CHMP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

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

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> - crane mounted auger - grout mixer - grout pump - drill - road ripper, excavator mounted 	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PME's where practicable: <ul style="list-style-type: none"> - air compressor - hand-held breaker 	N/A (1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m ² .	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible.	^

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

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

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

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	#
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	^
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Waste Management			
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER’s approval. The WMP shall include monthly and yearly Waste Flow Tables (“WFT”) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	^
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimization 	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance) 	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence 	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”. 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD; 	#

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> • A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works; 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> • All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> • Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling. 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> • The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction. 	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Land Contamination			
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation. Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD’s approval.	^
S.8.7.5	S.7.3.1	The following control measures should be implemented when handling identified contaminated materials: <ul style="list-style-type: none"> • General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; • Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; • Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; • Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants. 	N/A
S.8.7.5	S.7.3.1	<u>Management of Contaminated Soils</u> <ul style="list-style-type: none"> • Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; • The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; • All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete 	N/A

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<p>bund where appropriate in order to avoid any leachate from migrating out of the area; Any vehicles transporting the material shall be suitably covered to limit potential dust emissions;</p> <ul style="list-style-type: none"> • Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of contaminated water requiring disposal and suspended solids in the wastewater stream 	

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

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall be implemented practicable to minimize the noise disturbance to the foraging ardeids.	^
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	^
S.10.5.4	S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	^
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	<p>The following good work practices are recommended:</p> <ul style="list-style-type: none"> • Avoid soil storage against trees; • Fence off any potentially ecologically sensitive areas; • Delineation of works area to prevent encroachment onto adjacent habitats; • Reinstatement of habitat after works; • No on-site burning of waste; Waste and refuse in appropriate receptacles; • Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; • Regular ecological checks; and • Silt/ Sediment/ Oil traps for drainage to prevent site run-off 	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Cultural Heritage Impact			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape and Visual			
<i>Detailed Design Phase</i>			
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS falled within the cycle track works area shall be incorporated in the final landscape design of this Project.	^
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree	^

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

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the implementation of protection measures and health monitoring throughout the construction period.	^
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	N/A
	CP2.0	The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents.	^
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use.	^
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.	^
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion. Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	^
	CP3.1	Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.	N/A
	CP3.2	Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of site lighting to prevent light spillage.	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
	CP3.3	Screen the works area during the construction phase through the use of decorative hoarding along the site boundary facing adjacent VSRs	^
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	^
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents	^
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^

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

**APPENDIX J
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON
AND NOTIFIATION OF SUCCESSFUL
PROSECUTION**

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix J – Record of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: June 2020

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Table I - Record of Environmental Complaints

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
1	Pok Wai South Road	8 th November 2018	The complaint is filed against extensive dusty stockpile being placed at the works site of Pok Wai South Road (Portion A), causing dust nuisance and affecting the passer-by and residents.	<ul style="list-style-type: none"> • Cover all the stockpile when stockpiling works was not being conducted; • Arrange on-site personnel to wash the wheels of the vehicles immediately before they leave the site area; and • Increase the frequency of water spraying on the stockpiles to dampen the dusty surface. 	CIR was submitted in December
2	Mai Po San Tsuen (Portion D)	20 th December 2018	The complaint is filed against extensive dust nuisance by construction activities generated sand and dust, and may have caused the nearby village roads to look dusty and unclean.	<ul style="list-style-type: none"> • Increase the frequency of water spraying on the paved roads to minimize the dust generation; and • Cover the temporary cut slopes by tarpaulin before any excavation works commence. 	CIR was submitted in December
3	Mai Po San Tsuen (Portion D)	21 st December 2018	The complaint is filed against site effluent being pumped and discharge into the nearby surface channel from the same construction site.	<ul style="list-style-type: none"> • Cover the temporary cut slopes by tarpaulin before any excavation works commence. • Clean the water in the channel and all broken covers are replaced by new decking covers • 3 weirs have been installed at the downstream • Use of sedimentation tank prior to discharge • New cut-off plate next to the channel will be raised 200mm to prevent potential run-off • A filter with aggregate is placed at the side channel 	CIR was submitted in February

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix J – Record of environmental complaint, warning, summon and notification of successful prosecution

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<ul style="list-style-type: none"> Water and wastewater filtration system is installed to treat the site effluent. 	
4	Yau Mei San Tsuen	5 th December 2019	The complaint is filed against several stockpiles of dusty materials were not covered in the construction site (Yau Mei San Tsuen, Portion D) on 19 November 2019, 1300hr. No dust suppression measures were observed on site. Moreover, earth moving by grabber on lorry also generated large amount of dust.	<ul style="list-style-type: none"> Increased the frequency of water spraying on the exposed earth to minimize the dust generation Removed the stockpiles on site Installed sprinklers to keep the site clearance wet 	CIR was submitted in December

Remarks: Four environmental complaints were received in the previous reporting period. No environmental complaint was received in this reporting period.

Table II - Record of Notification of Summon and Successful Prosecution

Log Ref.	Received Date	Details of summon and prosecution	Status
1	5 th November 2019	Carrying out regulatory work not in accordance with the Schedule of the Air Pollution Control (Construction Dust) Regulation.	Acquitted
2	5 th November 2019	Constructing a designated project contrary to the condition of environmental permit.	The prosecution was successful

Remarks: Two notifications of summon and one successful prosecution were received in the previous reporting period. No notifications of summon nor prosecution was received in this reporting period.

**APPENDIX K
SUMMARY OF WASTE GENERATION
AND DISPOSAL RECORDS**

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2016 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Aug	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Sept	0.005	-	-	-	0.005	-	0.01	0.01	0.01	-	0.06
Oct	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Nov	0.35	-	-	-	0.35	-	0.05	0.05	0.05	-	0.05
Dec	0.4	-	-	-	0.4	-	0.05	0.05	0.05	-	0.05
Total	0.755	-	-	-	0.755	-	0.18	0.18	0.18	-	0.22

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

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2017 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02
May	0.79	-	-	-	0.79	-	0.05	0.05	0.05	-	0.01
June	1.63	-	-	-	1.63	-	0.05	0.05	0.05	-	0.02
July	1.25	-	-	-	1.25	-	0.05	0.05	0.05	-	0.01
Aug	1.49	-	-	-	1.49	-	0.05	0.05	0.05	-	0.01
Sep	1.15	-	-	-	1.14	0.493	0.05	0.05	0.05	-	0.01
Oct	1.19	-	-	-	1.19	-	0.05	0.05	0.05	-	0.01
Nov	0.79	-	-	-	0.76	-	0.05	0.05	0.05	-	0.03
Dec	3.09	-	-	-	3.07	-	0.05	0.05	0.05	-	0.01
Total	13.24				13.18	0.986	0.6	0.6	0.6		0.22

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

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2018 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	4.37	-	-	-	4.36	-	0.05	0.05	0.05	-	0.01
Feb	1.66	-	-	-	1.64	-	0.05	0.05	0.05	-	0.01
Mar	1.85	-	-	-	1.82	-	0.05	0.05	0.05	-	0.01
Apr	3.35	-	-	-	3.31	-	0.05	0.05	0.05	-	0.01
May	0.84	-	-	-	0.82	-	0.01	0.01	0.01	-	0.01
June	0.04	-	-	-	-	-	0.01	0.01	0.01	-	0.04
July	2.75	-	-	-	2.72	-	0.01	0.01	0.01	-	0.03
Aug	1.34	-	-	-	1.32	-	0.01	0.01	0.01	-	0.02
Sept	0.69	-	-	-	0.68	-	0.01	0.01	0.01	-	0.01
Oct	2.99	-	-	-	2.97	-	0.01	0.01	0.01	-	0.01
Nov	4.62	-	-	-	4.61	-	0.01	0.01	0.01	-	0.01
Dec	6.49	-	-	-	6.45	-	0.01	0.01	0.01	-	0.05
Sub-total	30.99	-	-	-	30.70	-	0.28	0.28	0.28	-	0.22
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Total	44.985	-	-	-	44.635	0.986	1.06	1.06	1.06	-	0.66

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

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2019 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	1.13	-	-	-	1.08	-	0.05	0.05	0.05	-	0.05
Feb	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Mar	0.06	-	-	-	-	-	0.05	0.05	0.05	-	0.06
Apr	0.06	-	-	-	0.03	-	0.05	0.05	0.05	-	0.03
May	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Jun	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
July	0.05	-	-	-	-	-	0.05	0.05	0.05	-	0.05
Aug	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Sep	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Oct	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Nov	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
Dec	0.19	-	-	-	-	-	0.05	0.05	0.05	-	0.19
Sub-total	1.69	-	-	-	1.11	-	0.60	0.60	0.60	-	0.58
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Total	46.675	-	-	-	45.745	0.986	1.66	1.66	1.66	-	1.24

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

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2020 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.13	-	-	-	-	-	0.05	0.05	0.05	-	0.13
Feb	0.16	-	-	-	-	-	0.05	0.05	0.05	-	0.16
Mar	0.14	-	-	-	-	-	0.05	0.05	0.05	-	0.14
Apr	0.15						0.05	0.05	0.05		0.15
May	0.22						0.05	0.05	0.05		0.22
Jun	0.06						0.05	0.05	0.05		0.06
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Sub-total	0.86	-	-	-		-	0.30	0.30	0.30	-	0.86
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Total	47.40	-	-	-	45.745	0.986	1.96	1.96	1.96	-	2.00

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

#Revised Figure

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

*Remark: Figure to be revised if necessary

Notes:

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

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

Contract No. : YL/2015/01

Contract Title : Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Item No.	Description of Works Process or Activity [see note (a) below]	Justifications for Using Timber in Temporary Construction Works	Est. Quantities of Timber Used (m3)	Actual Quantities used (m3)	Remarks
1.	Formwork for concreting	Easy handle by manpower	40	30	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
Total Estimated Quantity of Timber Used			40		

Notes:

- a. The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.
- b. The summary table shall be submitted to the *Architect/Engineer’s Representative monthly together with the Waste Flow Table for review and monitoring in accordance with the ETWB Technical Circular 19/2005 PS sub-clause 5(5) in Appendix C.