

# Civil Engineering and Development Department

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

### Quarterly EM&A Report (Version 1.0)

November 2020 to January 2021

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 17<sup>th</sup> Quarterly 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 between 1<sup>st</sup> November 2020 and 31<sup>st</sup> January 2021.
2. The construction programme is presented in **Appendix A**. The construction activities undertaken in the reporting quarter were:

Portion C	- Installation of Water Point
Portion D	- Installation of Traffic Aids, Installation of Public Lighting, General Cleaning
Portion E	- Installation of Traffic Aids, Installation of Public Lighting, General Cleaning
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Portion N	- Installation of Traffic Aids, Installation of Public Lighting, General Cleaning

**Environmental Monitoring Works**

3. Environmental monitoring for the Project was 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 quarter for the Project is tabulated in **Table I**.

**Table I Non-compliance Record for the Project in the Reporting Quarter**

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
November 2020			
Noise	0	0	N/A

December 2020			
Noise	0	0	N/A
January 2021			
Noise	0	0	N/A

5. No exceedance was recorded at any noise monitoring station during the reporting period.

### Environmental Licenses 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

### Key Information in the Reporting Quarter

7. Summary of key information in the reporting quarter is tabulated in **Table II**.

**Table II Summary Table for Key Information in the Reporting Quarter**

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 complaints were received in this quarter.**

8. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

## 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 is shown in **Figure 1a-1h** 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 23<sup>rd</sup> November 2016. This is the 17<sup>th</sup> Quarterly EM&A Report summarizing the EM&A works for the Project from 1<sup>st</sup> November 2020 – 31<sup>st</sup> January 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 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

**2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS**

- 2.1 The monitoring locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters designed for the routine impact monitoring were complied with the requirements stipulated under the EM&A Manual.

**Monitoring Parameters and Monitoring Locations**

- 2.2 The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise, landscape and visual due to the Project. The Project area and monitoring locations are depicted in **Figures 2a-2c**. **Appendix B** gives details of monitoring requirements.

**Monitoring Methodology**

- 2.3 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

**Environmental Quality Performance Limits (Action and Limit Levels)**

- 2.4 Should the environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix C**.

**Implementation Status of Environmental Mitigation Measures**

- 2.5 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix E**. Status of required submissions under the Environmental Permit (EP) of the reporting period is presented in **Table 2.1**.

**Table 2.1 Status of Required Submissions under EP**

EP Condition	Submission	Submission Date
3.5	Monthly Environmental Monitoring & Audit Report (November 2020)	18 December 2020
	Monthly Environmental Monitoring & Audit Report (December 2020)	19 January 2021
	Monthly Environmental Monitoring & Audit Report (January 2021)	25 February 2021



### **Site Audit Summary**

- 2.6 Site audits were carried out on a weekly basis. During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in **Appendix F**.

### **Status of Waste Management**

- 2.7 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.

### **3. MONITORING RESULTS AND NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)**

- 3.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix H**.

#### **Weather Conditions**

- 3.2 The detail of weather conditions for each individual monitoring session was presented in monthly EM&A report.

#### **Air Quality**

- 3.3 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.

#### **Construction Noise**

- 3.4 All construction noise monitoring was conducted as scheduled in the reporting period. No Action and Limit Level exceedance was recorded.
- 3.5 The graphical presentations of the noise monitoring results are shown in **Appendix D**.

#### **Landscape and Visual**

- 3.6 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures of this project. No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

#### **Influencing Factors on the Monitoring Results**

- 3.7 During the reporting period, the major noise sources identified at the designated monitoring stations are as follows:

**Table 3.1 Major Noise Sources during the Monitoring in the Reporting Period**

Monitoring Stations	Locations	Major 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

### Comparison of EM&A results with EIA predictions

- 3.8 According to Section 12.5.1 (viii) of the EM&A Manual, the EM&A data are compared with the EIA predictions and summarized in **Annex I**.
- 3.9 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results at N1 were slightly lower than the range of predicted mitigated construction noise levels in the EIA Report in November 2020 and January 2021, but lower than the range in December 2020.
- 3.10 The results at N2 were lower than the range of predicted mitigated construction noise levels in the EIA Report in this quarter.
- 3.11 The results at N3 was slightly lower than the range of predicted mitigated construction noise levels in the EIA Report in November 2020, but lower than the range in December 2020 & January 2021.
- 3.12 The results at N5 were lower than the range of the predicted mitigated construction noise levels in the EIA Report in this quarter.
- 3.13 The results at N6 were slightly lower than the range of the predicted mitigated construction noise levels in the EIA Report in November 2020 and January 2021, while within the range in December 2020.

#### **4. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS**

##### **Review of the Reasons for and the Implications of Non-compliance**

- 4.1 No Action/Limit Level exceedance was recorded at all noise monitoring stations in the reporting quarter.

##### **Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme**

- 4.2 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project.

##### **Effectiveness of Mitigation Measures**

- 4.3 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 4.4 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.
- 4.5 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed. No non-compliance (exceedances) of Action/Limit Level was recorded.
- 4.6 No environmental complaints and environmental prosecution were received in the reporting quarter.
- 4.7 The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period (as shown in **Appendix F**) are met.

##### **Recommendations**

- 4.8 According to the environmental audits performed in the reporting quarter, 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 should be provided to all stockpiles in the Site to prevent dust generation.

*Water Quality*

- Wheel washing bays in all Portions within the Site should be maintained as far as practicable by means of removing silty water or using cleaner water in order to enhance the effectiveness of wheel washing in every portion within the Site.
- 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 PMEs or workers.

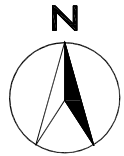
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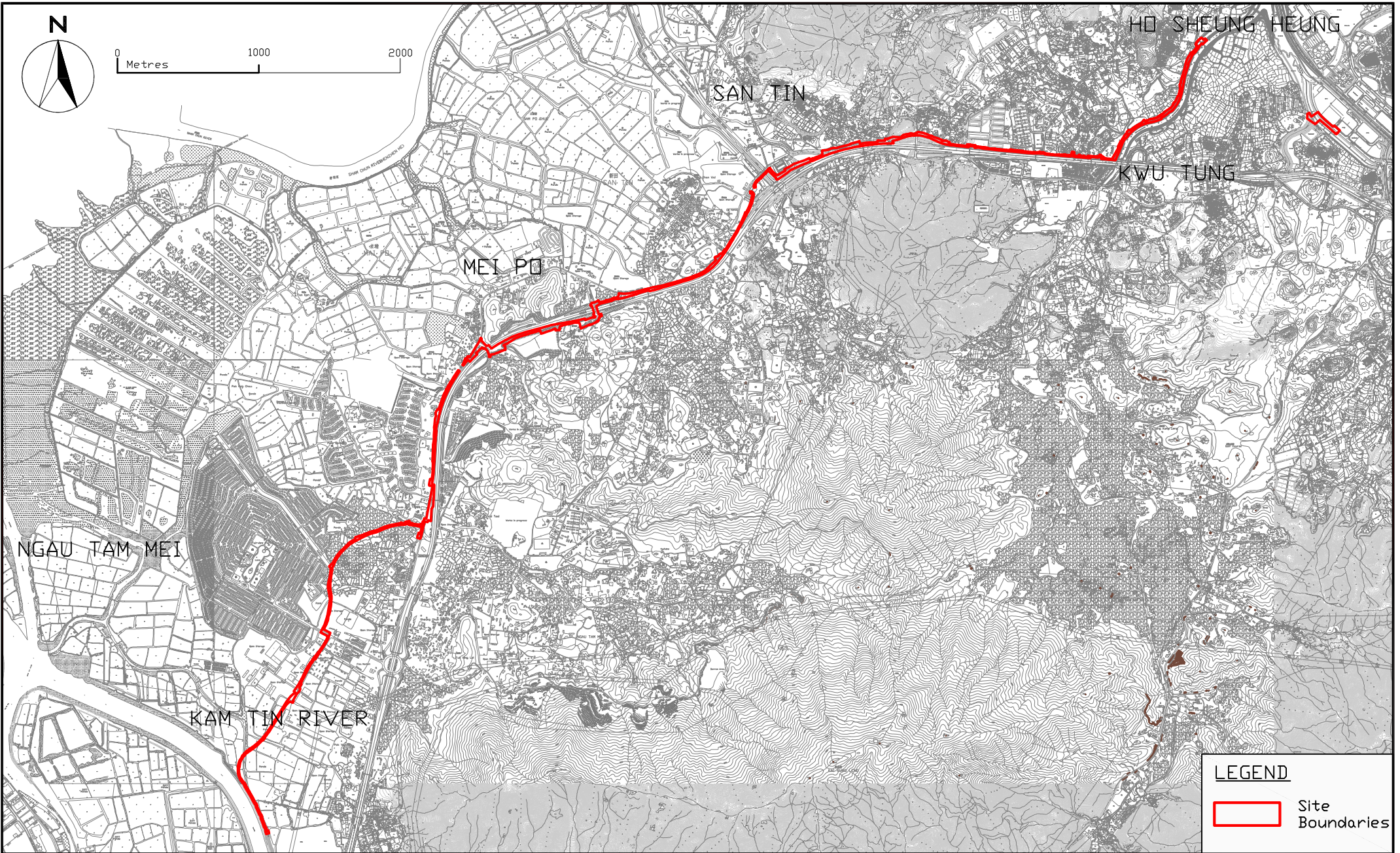
## FIGURES

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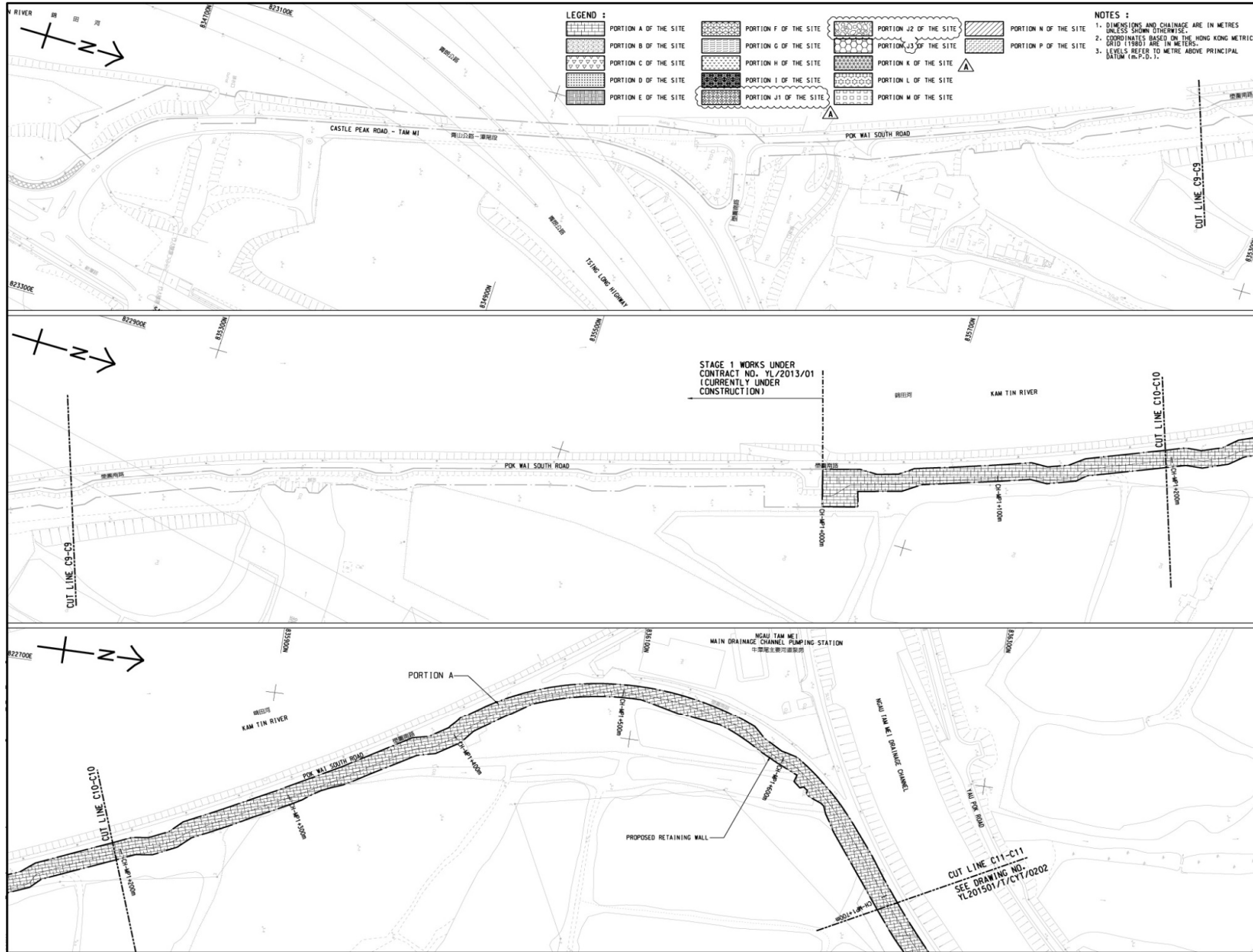
 Site Boundaries



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

**SITE LAYOUT PLAN**

SCALE	A4 1:35m	DATE	Aug 2016		
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**

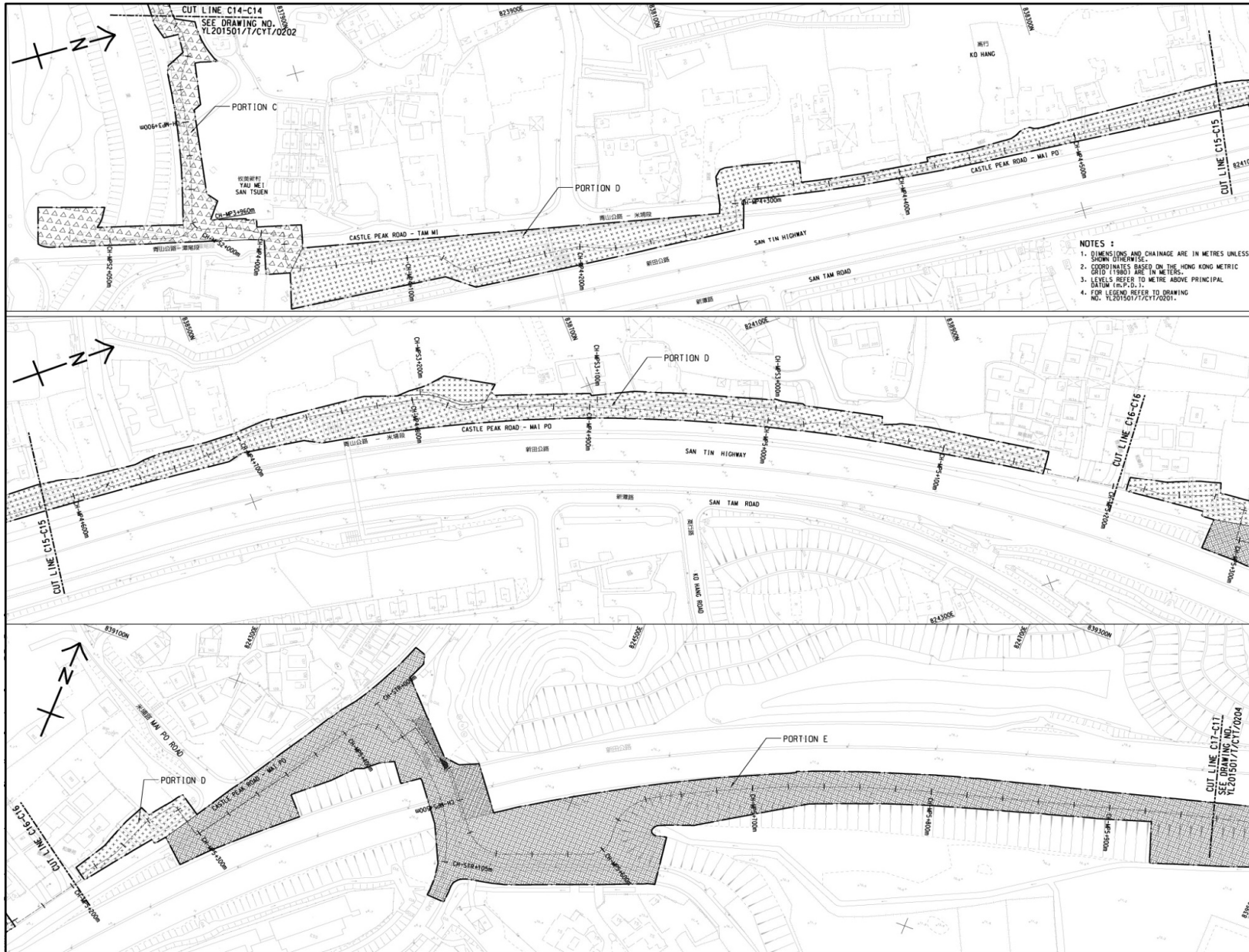




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

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



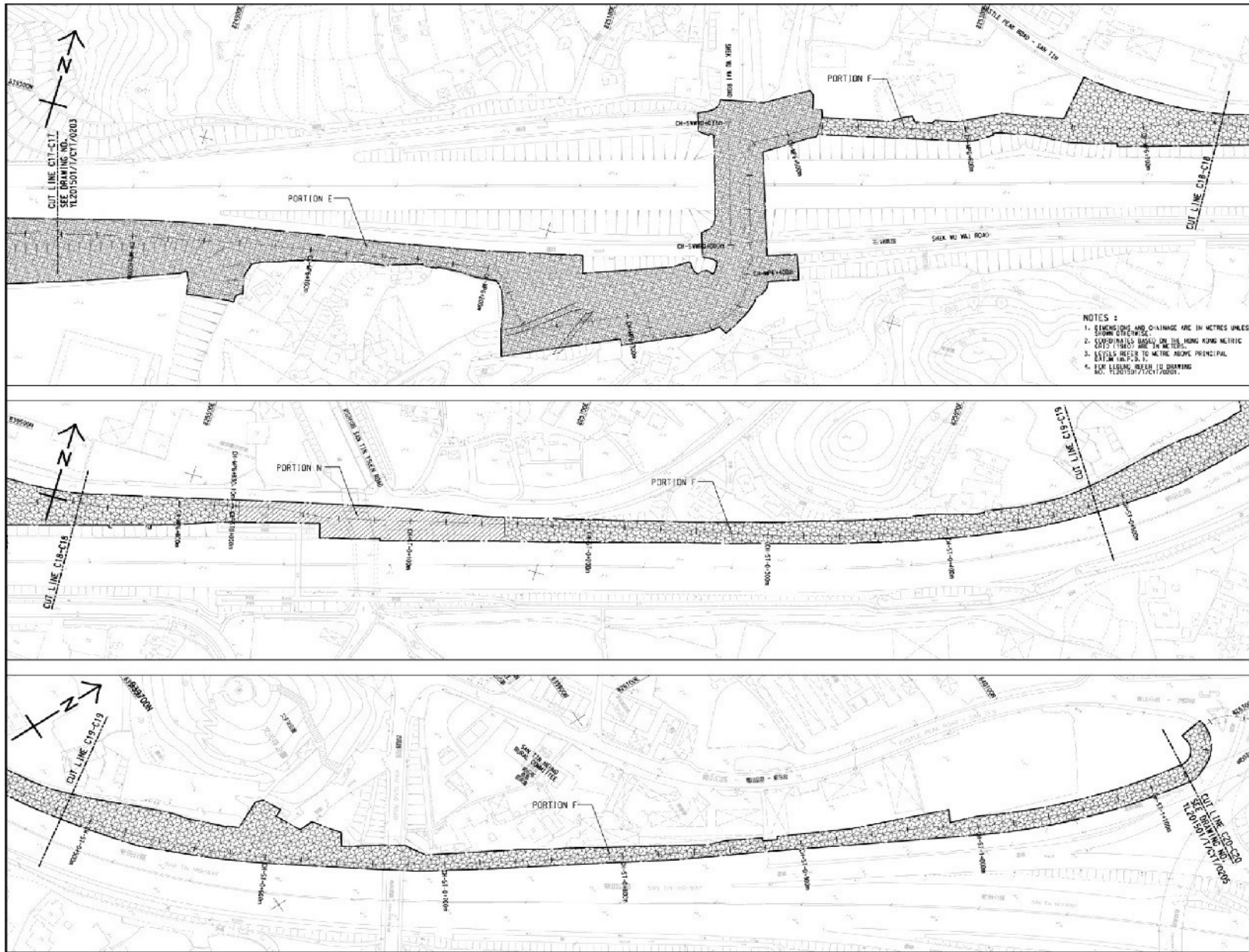


Title

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



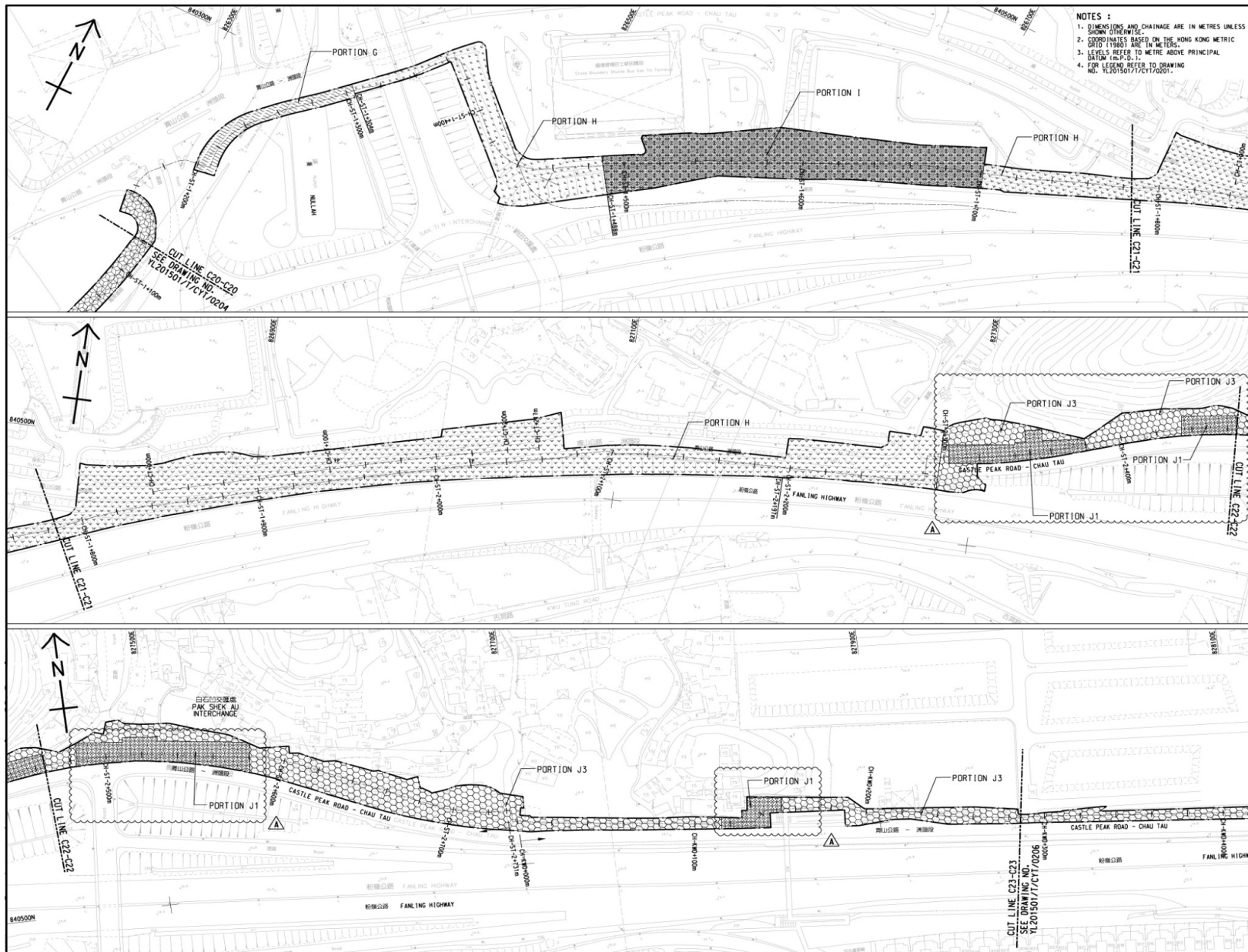


Title

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

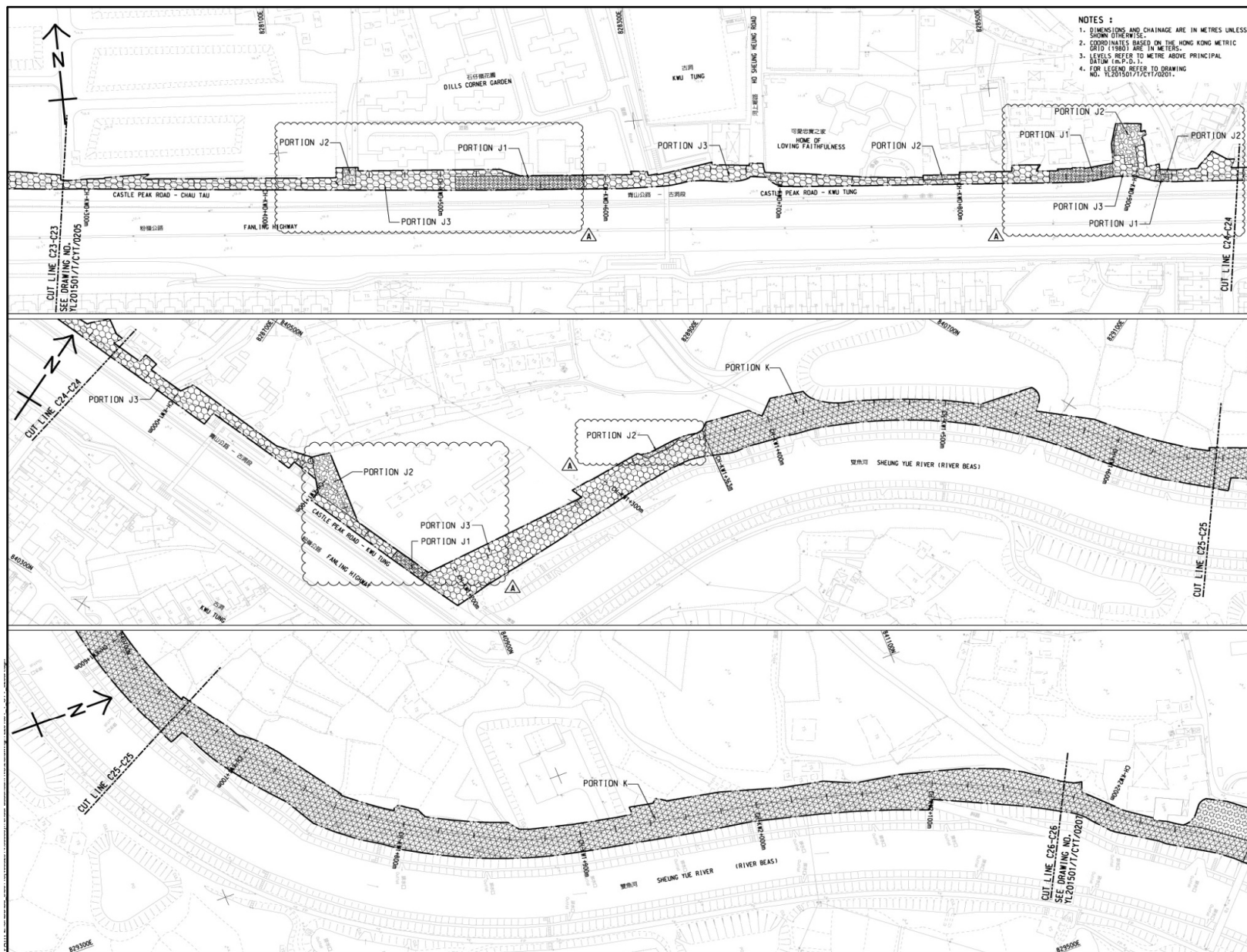
**CINOTECH**



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	1f

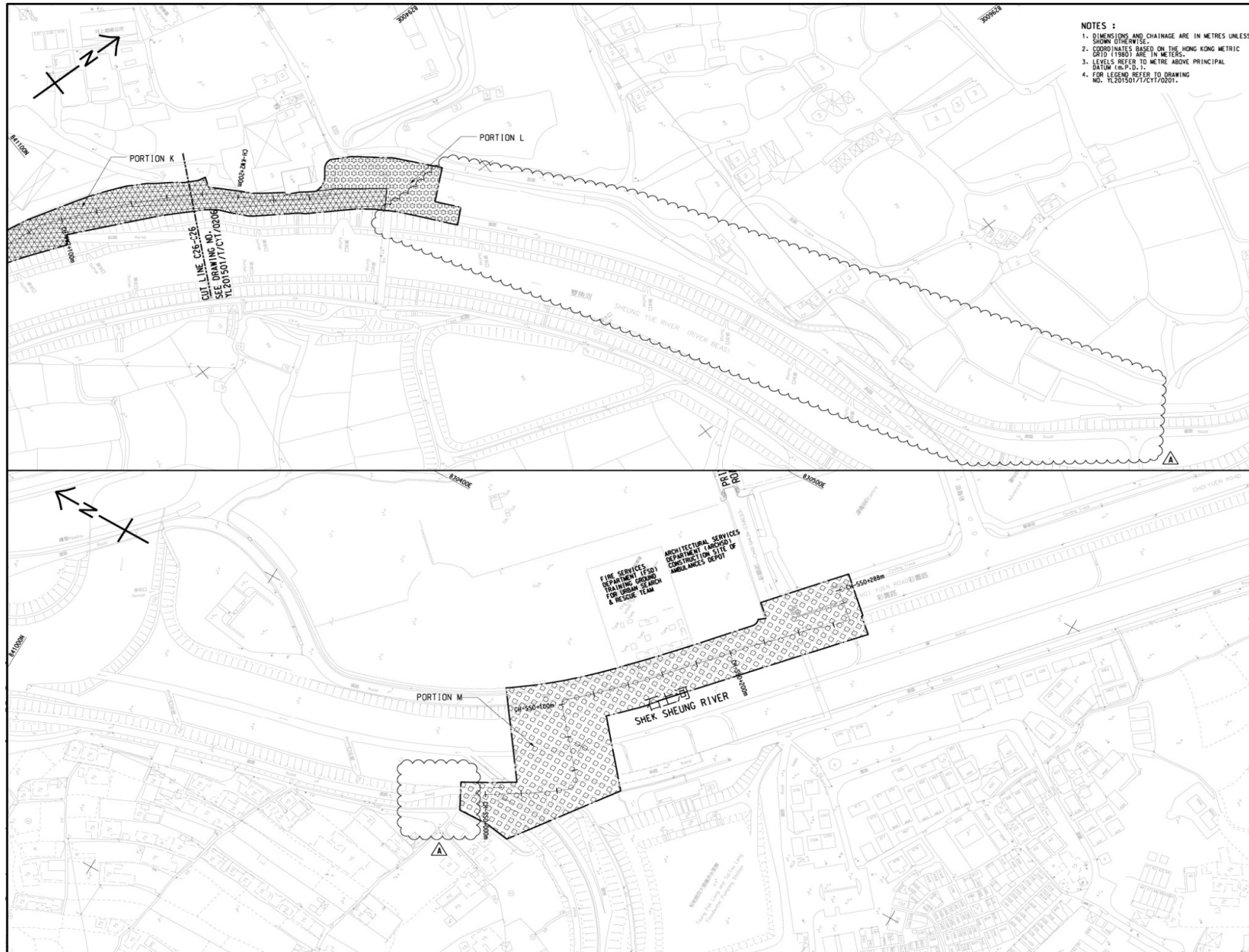




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

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
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		REV	-

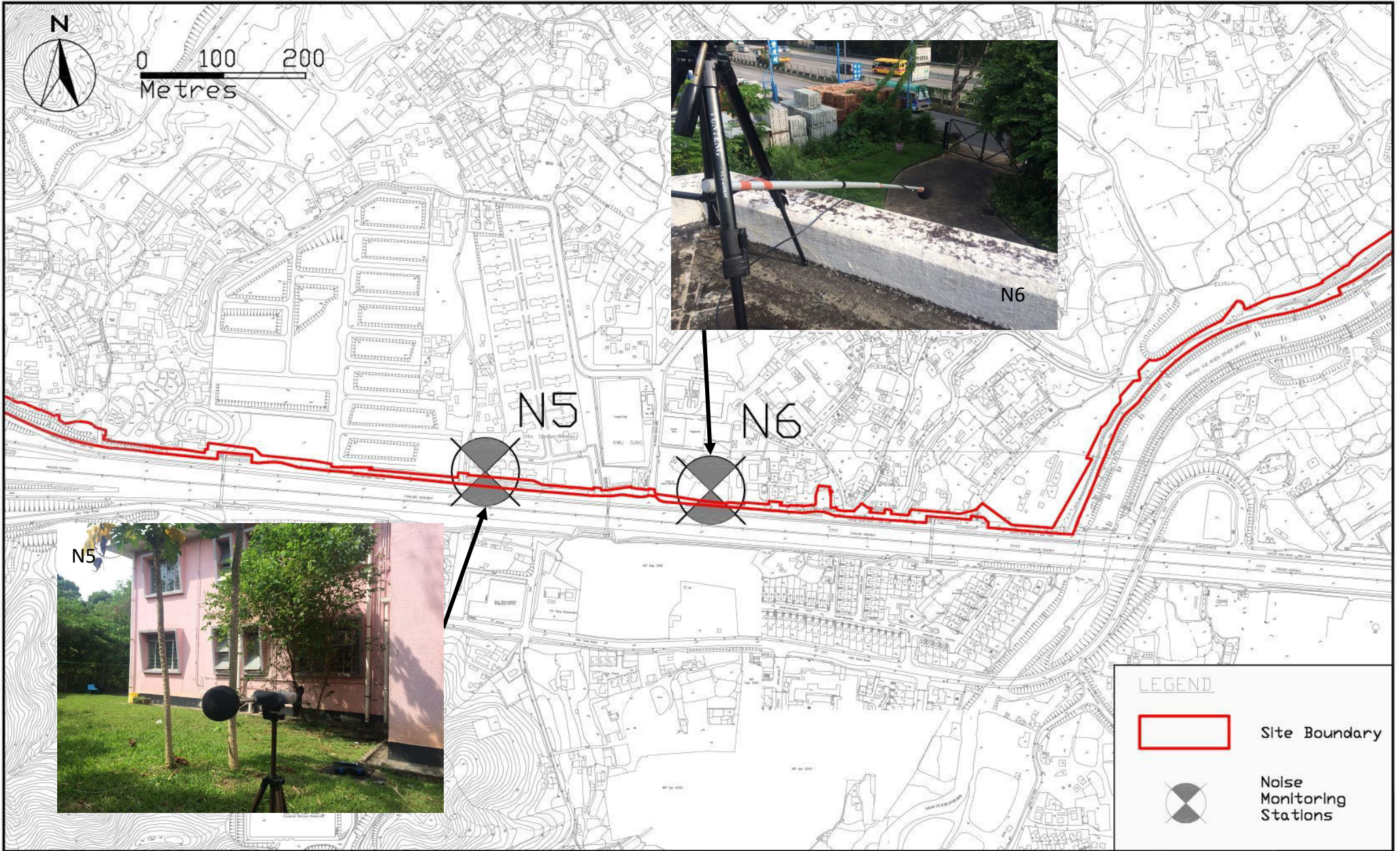


**LEGEND**

- Site Boundary
- Noise Monitoring Stations

SCALE	A4 1:6m	DATE	Aug 2016
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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	-

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**APPENDIX A  
CONSTRUCTION PROGRAMME**

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生興 - 豐利聯營  
Sang Hing - Kuly Joint Venture

28<sup>th</sup> 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.

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	5/6/2019	7/4/2019	30/9/2019	1) Street Lighting works and Colour Dressing	30-Sep-19			
	B			23/2/2020	1) Subway A Bay 12 to Bay 16 2) GRP Roofing Approval 3) GRP Roofing Order and Delivery 4) GRP Installation 5) Road work inside subway 5) Street Lighting works and colour Dressing	16-Oct-19 15-Jul-19 15-Oct-19 13-Jan-20 23-Feb-20 30-Sep-19	2nd	Assume GRP approval obtained on 15/7/19	
	C			11/7/2019	1) Street Lighting works and Colour Dressing 2) Additional Proposed staircase, ramp at Yau Po Road	7-Nov-19 16-Oct-19			
	D			15/4/2020	1) Approval of Street Lighting 2) Allocation Warrant and Installation of Street Lighting 3) Colour Dressing	30-Jun-19 6-Mar-20 15-Apr-20	1st		

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

W3	K&J1	30/5/2019	1/4/2019	5/4/2020	1) Approval of Street Lighting 2) Allocation Warrant and Installation of Street Lighting 3) Colour Dressing	30-Jun-19 6-Mar-20 5-Apr-20	1st	Assume Approval given on 30 June 2019
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W5	M	11/9/2019	11/9/2019	31/3/2020	1) Steel roofing and E&M of Bridge E 2) Approval of Street Lighting 3) Allocation Warrant and Installation of Street Lighting 4) Colour Dressing	27-Dec-19 30-Jun-19 6-Mar-20 31-Mar-20	1st	Assume Approval given on 30 June 2019
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W7	J1,J2,J3	14/6/2019	16/4/2019	20/4/2020	1) RW48, RW24A, RW24AA, etc 2) Earthwork and Drainage works 3) Road Work (except colour dressing) 2) Approval of Street Lighting 3) Allocation Warrant and Installation of Street Lighting 4) Colour Dressing	31-Dec-19 29-Feb-20 30-Mar-20 30-Jun-19 6-Mar-20 24-Apr-20	1st 2nd	Assume Approval given on 30 June 2019
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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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							
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 Chart Bar]																							

**REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME**

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	

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)																											
107	212020	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	106SS	100%	0 days	109	[Gantt bars for 107-109]																											
108	212030	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	106SS	100%	0 days	109	[Gantt bars for 108-109]																											
109	212040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	85 days	4 days	Sat 7/1/17	Sat 1/4/17	Sat 7/1/17	Sat 1/4/17	108,107	100%	0 days	137	[Gantt bars for 109-110]																											
110	212070	TTM PREPARATION BY SKJV & APPROVAL BY SUPERVISOR/PM/MLG & XP ISSUE+ 36 DAYS DELAY DUE TO BELATED APPROVAL OF XP & ADDITIONAL TRIAL RUN (SKJV NCE No.15)	162 days	0 day	Mon 28/11/16	Mon 8/5/17	Mon 28/11/16	Mon 8/5/17	106	100%	0 days	112	[Gantt bars for 110-111]																											
111	212100	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY PWS TO PW8)	183 days		Tue 9/5/17	Tue 7/11/17	Tue 9/5/17	Tue 7/11/17		100%	0 days		[Gantt bars for 111-112]																											
112	212110	CLP CABLE + Anticipated 95 Days Delay of Works Due to Uncharted CLP Cable Ducts (SKJV NCE No.46) and Delay in Diversion of CLP Pole (SKJV NCE No. 50)	183 days	2 days	Tue 9/5/17	Tue 7/11/17	Tue 9/5/17	Tue 7/11/17	110	100%	0 days	113SS,121	[Gantt bars for 112-113]																											
113	212140	WSD PIPE + Anticipated 95 Days Delay of Works Due to Delay in Diversion of WSD pipes (SKJV NCE No.40)	165 days	2 days	Tue 9/5/17	Fri 20/10/17	Tue 9/5/17	Fri 20/10/17	112SS	100%	0 days	121	[Gantt bars for 113-114]																											
114	212200	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY PW9 TO PW11)	14 days		Sat 8/9/18	Fri 21/9/18	Sat 8/9/18	Fri 21/9/18		100%	0 days		[Gantt bars for 114-115]																											
115	212210	CLP	14 days	1 day	Sat 8/9/18	Fri 21/9/18	Sat 8/9/18	Fri 21/9/18	122	100%	0 days	123,116SS	[Gantt bars for 115-116]																											
116	212230	WSD	14 days	1 day	Sat 8/9/18	Fri 21/9/18	Sat 8/9/18	Fri 21/9/18	115SS	100%	0 days	130,123	[Gantt bars for 116-117]																											
117	212240	UTILITIES DIVERSION WORKS (FOR SUBWAY BAY 12 TO 16)	28 days		Sat 8/9/18	Fri 5/10/18	Sat 8/9/18	Fri 5/10/18		100%	0 days		[Gantt bars for 117-118]																											
118	212260	HCL	28 days	1 day	Sat 8/9/18	Fri 5/10/18	Sat 8/9/18	Fri 5/10/18	122	100%	0 days	130	[Gantt bars for 118-119]																											
119	212270	WSD	28 days	1 day	Sat 8/9/18	Fri 5/10/18	Sat 8/9/18	Fri 5/10/18	122	100%	0 days	130	[Gantt bars for 119-120]																											
120	212280	SUBWAY A BARRELS WITH PUMP ROOM CONSTRUCTION	588 days		Wed 8/11/17	Tue 18/6/19	Wed 8/11/17	Tue 18/6/19		100%	0 days		[Gantt bars for 120-121]																											
121	212300	BAY PW5, 6, 7, 8	300 days	5 days	Wed 8/11/17	Mon 3/9/18	Wed 8/11/17	Mon 3/9/18	112,113	100%	0 days	122,125	[Gantt bars for 121-122]																											
122	212310	TTA FOR BAY PW9, 10, & 11	4 days	3 days	Tue 4/9/18	Fri 7/9/18	Tue 4/9/18	Fri 7/9/18	121	100%	0 days	115,118,119	[Gantt bars for 122-123]																											
123	212320	BAY PW9 & P10 WITH PUMP HOUSE, PW11	270 days	5 days	Sat 22/9/18	Tue 18/6/19	Sat 22/9/18	Tue 18/6/19	115,116	100%	0 days	130SS+210 days,148,128	[Gantt bars for 123-124]																											
124	212330	SOUTHERN RAMP CONSTRUCTION	497 days		Tue 4/9/18	Mon 13/1/20	Tue 4/9/18	NA		22%	53 days		[Gantt bars for 124-125]																											
125	212340	BAY PW1 TO 4	120 days	2 days	Tue 4/9/18	Tue 1/1/19	Tue 4/9/18	Tue 1/1/19	121	100%	0 days	126FS-55 days	[Gantt bars for 125-126]																											
126		ROOFING - MATERIAL SUBMISSION AND APPROVAL	250 days		Thu 8/11/18	Mon 15/7/19	NA	NA	125FS-55 days	0%	53 days	127	[Gantt bars for 126-127]																											
127		ROOFING - ORDER, MANUFACTURING & DELIVER	92 days		Tue 16/7/19	Tue 15/10/19	NA	NA	126	0%	53 days	128,132	[Gantt bars for 127-128]																											
128	212342	INSTALLATION OF ROOF	90 days	2 days	Wed 16/10/19	Mon 13/1/20	NA	NA	123,127	0%	53 days	135	[Gantt bars for 128-129]																											
129	212380	NORTHERN RAMP CONSTRUCTION	209 days		Thu 20/6/19	Tue 14/1/20	Thu 20/6/19	NA		7%	52 days		[Gantt bars for 129-130]																											
130	212390	BAY PW12 TO 13 + SKJV EW No.60 - Conflict between Bay 13 & 14 and Existing Drainage Pipe	119 days	2 days	Thu 20/6/19	Wed 16/10/19	Thu 20/6/19	NA	123SS+210 days,116,118,119	10%	52 days	133FS-50 days,132,148,131SS	[Gantt bars for 130-131]																											
131	212395	BAY PW14 TO 16 + SKJV EW No.60 - Conflict between Bay 13 & 14 and Existing Drainage Pipe	119 days	2 days	Thu 20/6/19	Wed 16/10/19	Thu 20/6/19	NA	130SS	10%	52 days	132,133FS-50 days	[Gantt bars for 131-132]																											
132	212392	INSTALLATION OF ROOF	90 days	2 days	Thu 17/10/19	Tue 14/1/20	NA	NA	131,130,127	0%	52 days	135	[Gantt bars for 132-133]																											
133	212415	FINISHING WORKS AND E&M WORKS	115 days	5 days	Wed 28/8/19	Fri 20/12/19	NA	NA	130FS-50 days,131FS-50 d	0%	77 days	135	[Gantt bars for 133-134]																											
134	212416	SKJV NCE No. 181 - ADDITIONAL FLOODING WARNING SYSTEM FOR SUBWAY A	342 days	0 day	Fri 26/10/18	Wed 2/10/19	Fri 26/10/18	NA		30%	156 days	135,419SS	[Gantt bars for 134-135]																											
135	212417	ROAD WORKS INSIDE SUBWAY	40 days	2 days	Wed 15/1/20	Sun 23/2/20	NA	NA	133,134,132,128	0%	52 days	149	[Gantt bars for 135-136]																											
136	212420	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+350 TO 2+650	691 days		Sun 2/4/17	Thu 21/2/19	Sun 2/4/17	Thu 21/2/19		100%	0 days		[Gantt bars for 136-137]																											
137	212425	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+350 TO 2+650, SUSPENSION OF WORKS DUE TO CONFLICT OF CYCLE TRACK WITH EXISTING DWARF WALL, MCAL LETTER DATED 11/4/2017)	10 days	0 day	Sun 2/4/17	Tue 11/4/17	Sun 2/4/17	Tue 11/4/17	109	100%	0 days	138	[Gantt bars for 137-138]																											
138	212430	PENDING SUPERVISOR TO ISSUE CE TO RESOLVE CONFLICT (SKJV NCE No.45) & SKJV Letter Ref: SO/2436 & Dated 20/8/2018 - Confirmation of Additional Bicycle Parapet Footing in Portion B	496 days	0 day	Wed 12/4/17	Mon 20/8/18	Wed 12/4/17	Mon 20/8/18	137	100%	0 days	139	[Gantt bars for 138-139]																											
139	212435	SKJV NCE No. 45 - Preparation Works	15 days	0 day	Tue 21/8/18	Tue 4/9/18	Tue 21/8/18	Tue 4/9/18	138	100%	0 days	140	[Gantt bars for 139-140]																											
140	212440	SKJV NCE No.45 - Site Works	120 days	0 day	Wed 5/9/18	Wed 21/1/19	Wed 5/9/18	Wed 21/1/19	139	100%	0 days	146,141	[Gantt bars for 140-141]																											
141	212450	EARTHWORKS AND DRAINAGE WORKS FROM CH 2+650 TO 2+930	50 days	0 day	Thu 3/1/19	Thu 21/2/19	Thu 3/1/19	Thu 21/2/19	140	100%	0 days	146	[Gantt bars for 141-142]																											
142	212451	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	143,144	[Gantt bars for 142-143]																											
143	212452	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	142	100%	0 days	145	[Gantt bars for 143-144]																											
144	212453	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	142	100%	0 days	145	[Gantt bars for 144-145]																											
145	212454	INSTALLATION OF LED STREET LIGHTING BY OTHERS	197 days	0 day	Sat 16/2/19	Sat 31/8/19	Sat 16/2/19	NA	144,143	70%	198 days	147	[Gantt bars for 145-146]																											
146	212455	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	40 days	5 days	Fri 22/2/19	Tue 2/4/19	Fri 22/2/19	Tue 2/4/19	140,141	100%	0 days	147	[Gantt bars for 146-147]																											
147	212456	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	30 days	2 days	Sun 1/9/19	Mon 30/9/19	NA	NA	146,145	0%	198 days	149	[Gantt bars for 147-148]																											
148	212460	RESTING STATION R6	60 days	7 days	Thu 17/10/19	Sun 15/12/19	NA	NA	123,130	0%	122 days	149	[Gantt bars for 148-149]																											
149	212465	PORTION B - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 23/2/20	Sun 23/2/20	NA	NA	135,148,147	0%	52 days	235	[Gantt bars for 149-150]																											
150	212470	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 bars for 150-151]																											
151	212471	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 bars for 151-152]																											
152	213000	PORTION C (MP 2+950 - MP 4+010)	1226 days		Thu 30/6/16	Thu 7/11/19	Thu 30/6/16	NA		69%	160 days		[Gantt bars for 152-153]																											
153	213010	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	154	[Gantt bars for 153-154]																											
154	213020	INITIAL SURVEY + 9 DAY DELAY (INCLEMENT WEATHER IN SEPT TO OCT 16)	63 days	4 days	Mon 29/8/16	Sun 30/10/16	Mon 29/8/16	Sun 30/10/16	153	100%	0 days	155,162	[Gantt bars for 154-155]																											
155	213030	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	Sat 22/10/16	Wed 4/1/17	154	100%	0 days	156	[Gantt bars for 155-156]																											
156	213040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	75 days	5 days	Thu 5/1/17	Mon 20/3/17	Thu 5/1/17	Mon 20/3/17	155	100%	0 days	159FS+65 days,168	[Gantt bars for 156-157]																											

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

Legend:  
 Task: [Solid bar] Summary: [Dashed bar] External Milestone: [Diamond] Inactive Summary: [Dotted bar] Manual Summary Rollup: [Thick bar] Finish-only: [Thin bar] Progress: [Thin bar with arrow]  
 Split: [Dotted bar] Project Summary: [Dashed bar] Inactive Task: [Dotted bar] Manual Task: [Solid bar] Manual Summary: [Thick bar] Critical: [Thin bar] Deadline: [Thin bar with arrow]  
 Milestone: [Diamond] External Tasks: [Dashed bar] Inactive Milestone: [Dotted bar] Duration-only: [Thin bar] Start-only: [Thin bar] Critical Split: [Thin bar]

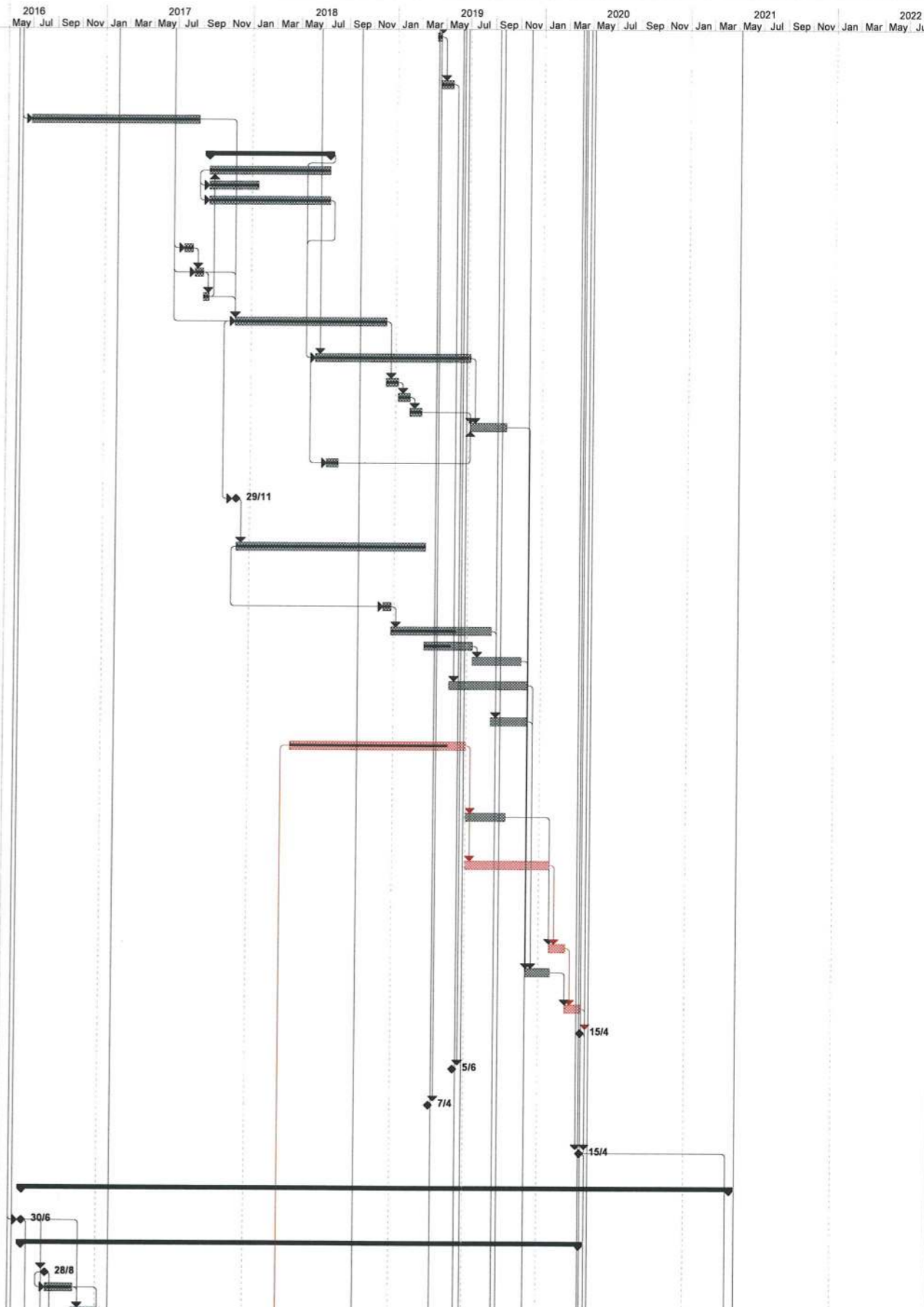
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Timeline (2016-2022)																							
157	213050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	520 days	0 day	Thu 30/6/16	Fri 1/12/17	Thu 30/6/16	Fri 1/12/17	67SS	100%	0 days	178	[Timeline bars for ID 157]																							
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		[Timeline bars for ID 158]																							
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	[Timeline bars for ID 159]																							
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		[Timeline bars for ID 160]																							
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		[Timeline bars for ID 161]																							
162	213090	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS) + 1 day DELAY (INCLEMENT 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	[Timeline bars for ID 162]																							
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	[Timeline bars for ID 163]																							
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	[Timeline bars for ID 164]																							
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		[Timeline bars for ID 165]																							
166	213130	RETAINING WALL - RW 11B : BAY 1 - 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	[Timeline bars for ID 166]																							
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	[Timeline bars for ID 167]																							
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	[Timeline bars for ID 168]																							
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	[Timeline bars for ID 169]																							
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		[Timeline bars for ID 170]																							
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	[Timeline bars for ID 171]																							
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	[Timeline bars for ID 172]																							
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	[Timeline bars for ID 173]																							
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	[Timeline bars for ID 174]																							
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	[Timeline bars for ID 175]																							
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	[Timeline bars for ID 176]																							
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	[Timeline bars for ID 177]																							
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	[Timeline bars for ID 178]																							
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	[Timeline bars for ID 179]																							
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	[Timeline bars for ID 180]																							
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	[Timeline bars for ID 181]																							
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	[Timeline bars for ID 182]																							
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	93%	91 days	188FS-100 days	[Timeline bars for ID 183]																							
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	[Timeline bars for ID 184]																							
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	[Timeline bars for ID 185]																							
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	[Timeline bars for ID 186]																							
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	[Timeline bars for ID 187]																							
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	[Timeline bars for ID 188]																							
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, 1	0%	160 days	191	[Timeline bars for ID 189]																							
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	[Timeline bars for ID 190]																							
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	[Timeline bars for ID 191]																							
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		[Timeline bars for ID 192]																							
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		[Timeline bars for ID 193]																							
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		[Timeline bars for ID 194]																							
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	[Timeline bars for ID 195]																							
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	[Timeline bars for ID 196]																							
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	[Timeline bars for ID 197]																							
198	214040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE EXCLUDING CH-MP5+050 TO 5+290 (+ DELAY DUE TO INCLEMENT 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	[Timeline bars for ID 198]																							
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	[Timeline bars for ID 199]																							
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	[Timeline bars for ID 200]																							

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
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		<b>SECTION W2 (PORTION E, F, G, H, I &amp; N)</b>	<b>1761 days</b>	<b>days</b>	<b>Thu 30/6/16</b>	<b>Sun 25/4/21</b>	<b>Thu 30/6/16</b>	<b>NA</b>		<b>77%</b>	<b>485 days</b>	
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



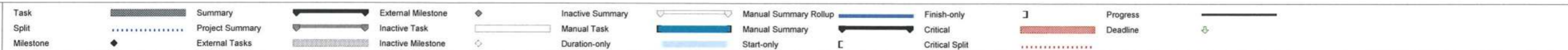
Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	

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	
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 ADVICE	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									
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	281	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	NA		53%	375 days									
301	221540	RETAINING WALL - RW D24 (44M)	120 days	5 days	Thu 4/10/18	Thu 31/1/19	Thu 4/10/18	Thu 31/1/19	280	100%	0 days	302SS								

Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task				

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	289,291,292,296,298,299,3	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 INCREMENT 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								

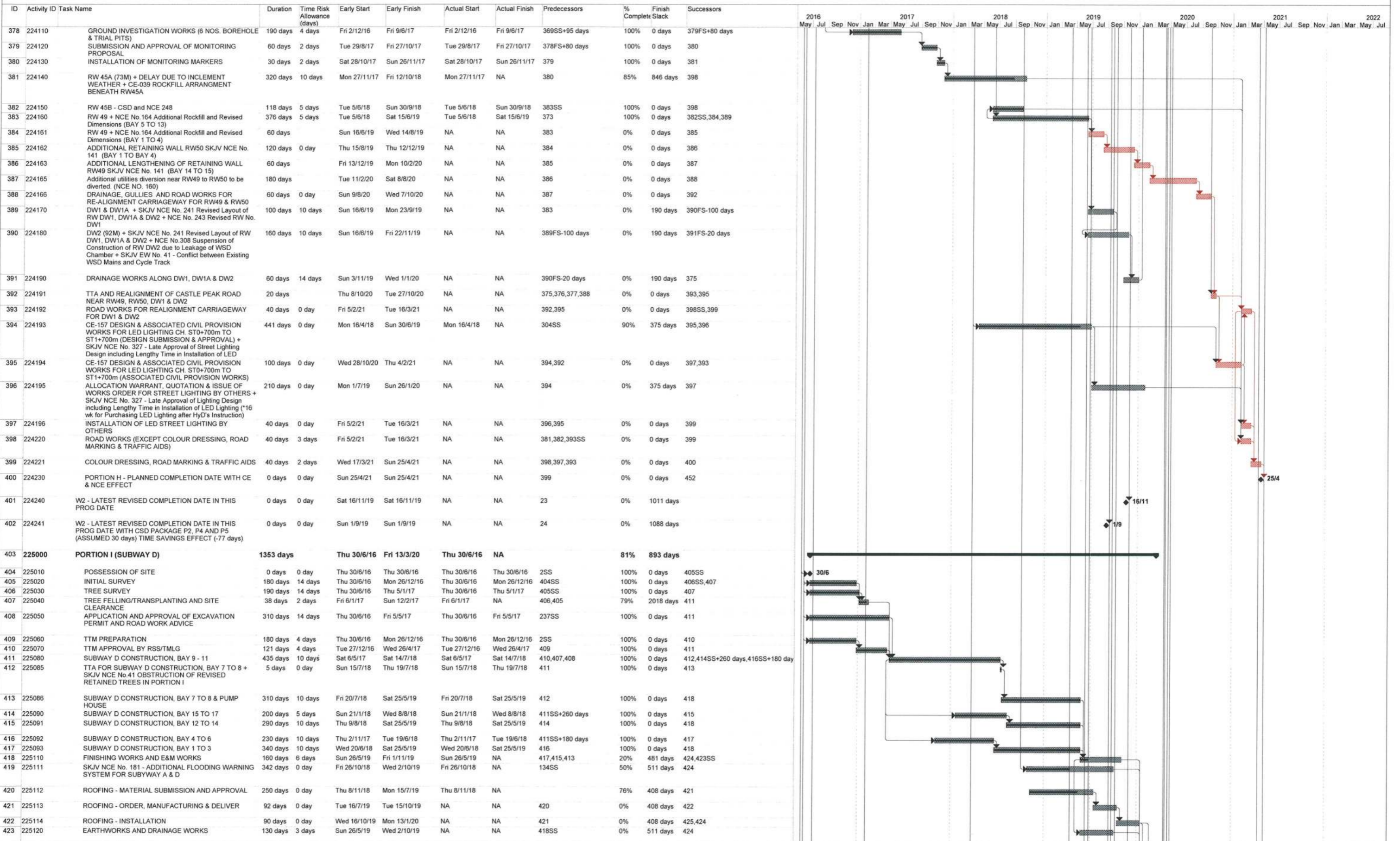


REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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											
337	222221	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION F & N (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	304SS	90%	375 days	338,339	[Gantt chart bars for 337]											
338	222222	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION F & N (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	337	0%	485 days	340	[Gantt chart bars for 338]											
339	222223	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	337	0%	375 days	340	[Gantt chart bars for 339]											
340	222224	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	338,339	0%	375 days	342	[Gantt chart bars for 340]											
341	222230	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	75 days	8 days	Mon 16/12/19	Fri 28/2/20	NA	NA	335,334,336,333FS-20 days,332FS-20 days,330FS-15 days	0%	382 days	343SS-30 days,362SS,342	[Gantt chart bars for 341]											
342	222231	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	2 days	Sat 7/3/20	Wed 15/4/20	NA	NA	340,341	0%	375 days	344	[Gantt chart bars for 342]											
343	222240	RESTING STATION R8	110 days	10 days	Sat 16/11/19	Wed 4/3/20	NA	NA	341SS-30 days	0%	417 days	344	[Gantt chart bars for 343]											
344	222250	PORTION F - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	343,342	0%	375 days	452	[Gantt chart bars for 344]											
345	222260	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	16/11	[Gantt chart bars for 345]											
346	222261	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	1/9	[Gantt chart bars for 346]											
347	223000	PORTION G - (BRIDGE C) CH ST 1+210 - CH ST 1+310)	1371 days		Thu 30/6/16	Tue 31/3/20	Thu 30/6/16	NA		72%	390 days		[Gantt chart bars for 347]											
348	223010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	237	100%	0 days	352SS,349SS	[Gantt chart bars for 348]											
349	223020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	348SS	100%	0 days	350,351	[Gantt chart bars for 349]											
350	223030	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	Mon 29/8/16	Thu 5/1/17	349	100%	0 days	351	[Gantt chart bars for 350]											
351	223040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	Fri 6/1/17	Fri 5/5/17	350,349	100%	0 days	355	[Gantt chart bars for 351]											
352	223080	PREPARATION OF TDMP FOR GI WORKS	202 days	10 days	Thu 30/6/16	Tue 17/1/17	Thu 30/6/16	Tue 17/1/17	348SS	100%	0 days	353	[Gantt chart bars for 352]											
353	223090	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Wed 18/1/17	Tue 31/1/17	Wed 18/1/17	Tue 31/1/17	352	100%	0 days		[Gantt chart bars for 353]											
354	223110	STARTING DATE OF DRY SEASON	0 days	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	355	[Gantt chart bars for 354]											
355	223111	BRIDGE C WORKS (CSD)	151 days	5 days	Wed 1/11/17	Sat 31/3/18	Wed 1/11/17	Sat 31/3/18	354,351	100%	0 days	357	[Gantt chart bars for 355]											
356	223160	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		100%	0 days		[Gantt chart bars for 356]											
357	223200	EARTHWORKS AND DRAINAGE WORKS	180 days	2 days	Sun 1/4/18	Thu 27/9/18	Sun 1/4/18	Thu 27/9/18	355	100%	0 days		[Gantt chart bars for 357]											
358	223201	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (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	304SS	90%	390 days	359,360	[Gantt chart bars for 358]											
359	223202	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	358	0%	500 days	361	[Gantt chart bars for 359]											
360	223203	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	358	0%	390 days	361	[Gantt chart bars for 360]											
361	223204	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	360,359	0%	390 days	363	[Gantt chart bars for 361]											
362	223210	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	60 days	10 days	Mon 16/12/19	Thu 13/2/20	NA	NA	341SS	0%	412 days	363	[Gantt chart bars for 362]											
363	223211	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Sat 7/3/20	Tue 31/3/20	NA	NA	362,361	0%	390 days	364	[Gantt chart bars for 363]											
364	223230	PORTION G - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	363	0%	390 days	452	[Gantt chart bars for 364]											
365	223240	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	16/11	[Gantt chart bars for 365]											
366	223241	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	1/9	[Gantt chart bars for 366]											
367	224000	PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)	1761 days		Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		65%	0 days		[Gantt chart bars for 367]											
368	224010	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	369SS	[Gantt chart bars for 368]											
369	224020	INITIAL SURVEY	300 days	4 days	Mon 29/8/16	Sat 24/6/17	Mon 29/8/16	Sat 24/6/17	368SS	100%	0 days	370,371FS+40 days,378SS+95 days	[Gantt chart bars for 369]											
370	224030	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	Wed 2/11/16	Thu 5/1/17	369	100%	0 days		[Gantt chart bars for 370]											
371	224040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	580 days	7 days	Fri 4/8/17	Wed 6/3/19	Fri 4/8/17	Wed 6/3/19	369FS+40 days	100%	0 days		[Gantt chart bars for 371]											
372	224050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	420 days	10 days	Thu 30/6/16	Wed 23/8/17	Thu 30/6/16	Wed 23/8/17	237SS	100%	0 days	373,375	[Gantt chart bars for 372]											
373	224060	APPLIED TTA APPROVAL FOR REALIGNMENT FOR RW49	285 days	14 days	Thu 24/8/17	Mon 4/6/18	Thu 24/8/17	Mon 4/6/18	372	100%	0 days	383	[Gantt chart bars for 373]											
374	224070	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	90 days	0 day	Thu 2/1/20	Tue 31/3/20	NA	NA		0%	190 days		[Gantt chart bars for 374]											
375	224080	HKB	90 days	5 days	Thu 2/1/20	Tue 31/3/20	NA	NA	372,391	0%	190 days	376SS,377SS,392	[Gantt chart bars for 375]											
376	224090	TGT	90 days	5 days	Thu 2/1/20	Tue 31/3/20	NA	NA	375SS	0%	190 days	392	[Gantt chart bars for 376]											
377	224100	CLP	90 days	5 days	Thu 2/1/20	Tue 31/3/20	NA	NA	375SS	0%	190 days	392	[Gantt chart bars for 377]											

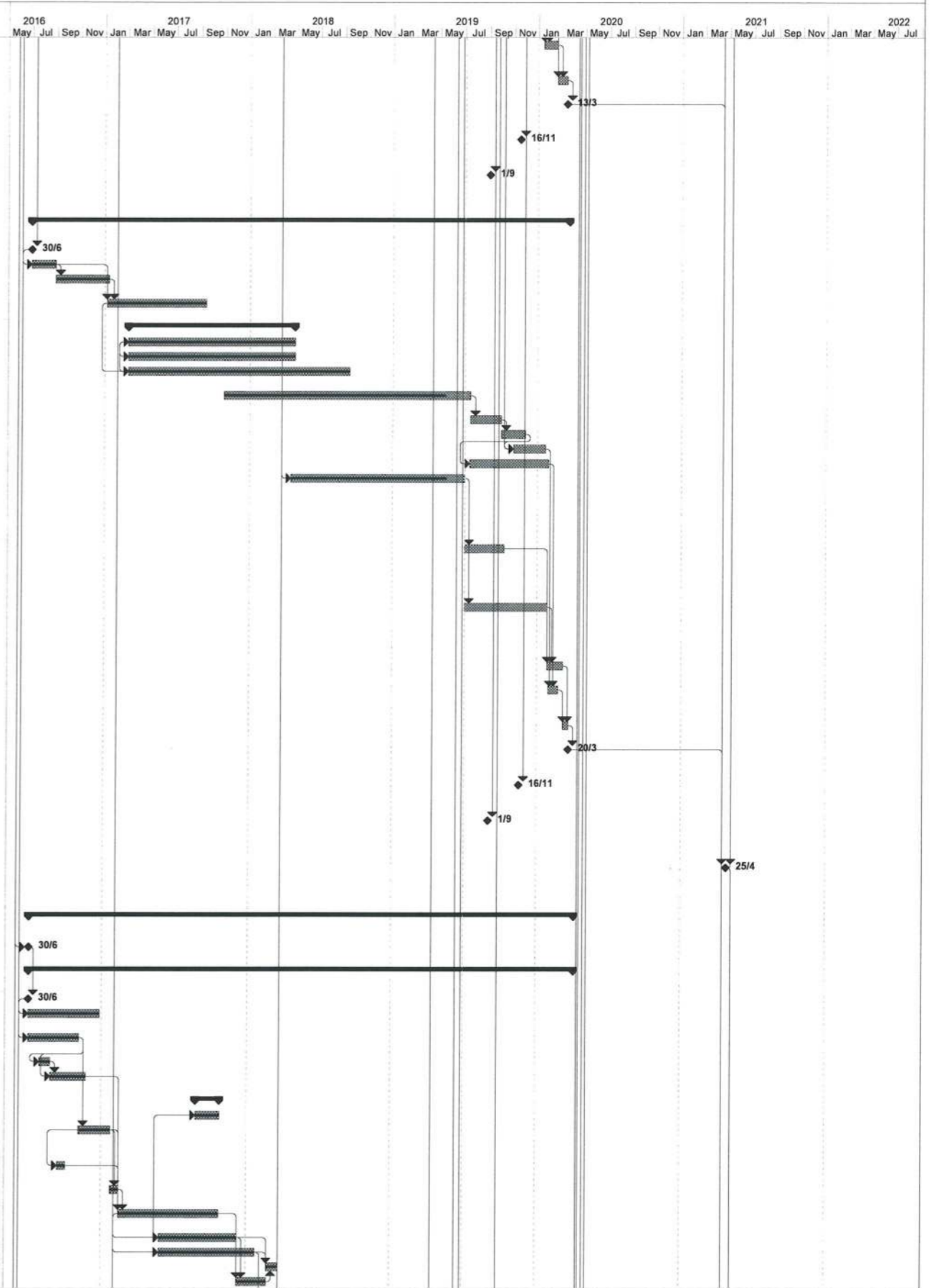
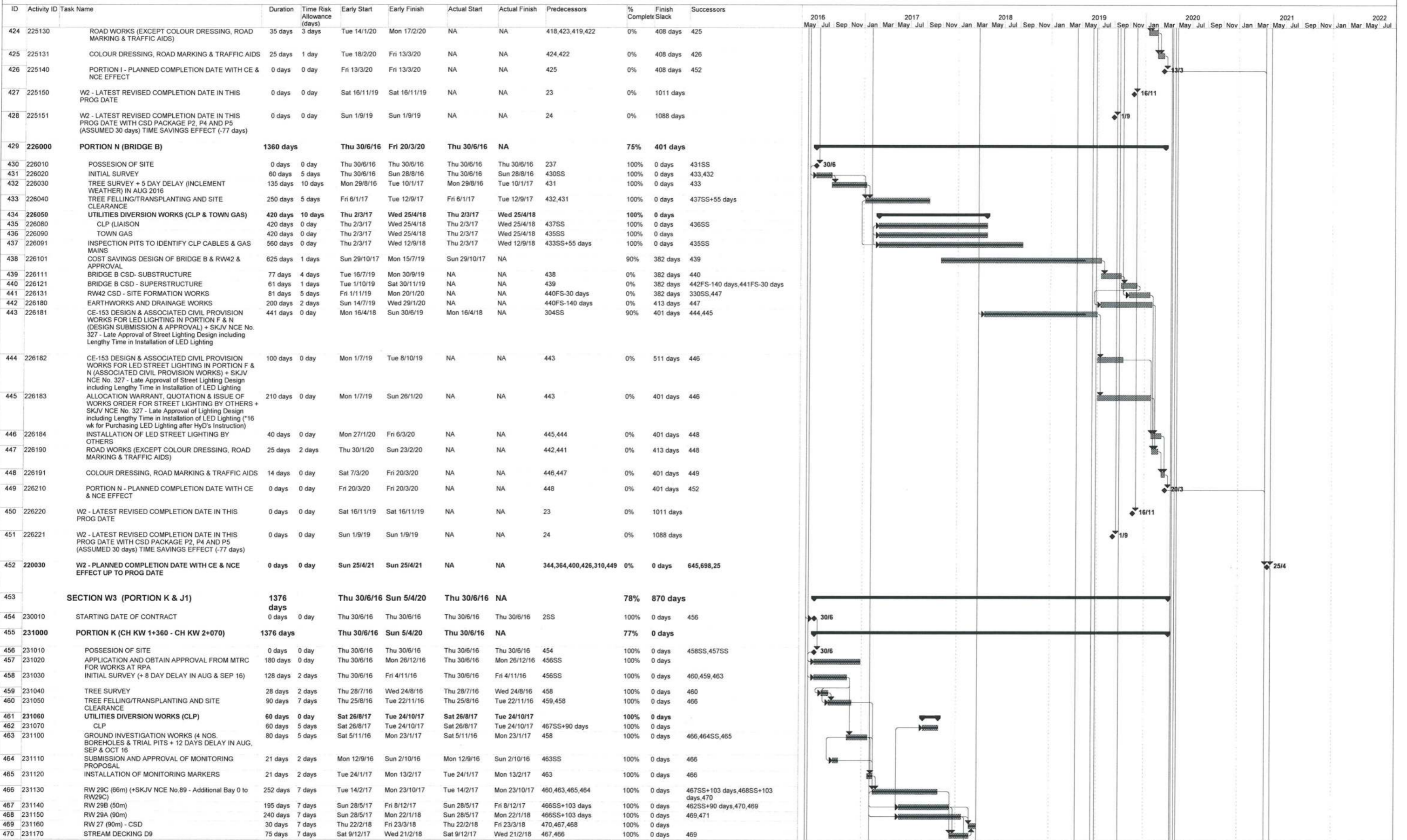
Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



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



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	

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)																											
471	231180	EARTHWORKS AND DRAINAGE WORKS (+ SKJV NCE No.90 - Additional 170m Dward Walls, Revised Alignment CT/FP and Maint. Access between CH KW1+580 to +4910)	298 days	21 days	Tue 23/1/18	Fri 16/11/18	Tue 23/1/18	Fri 16/11/18	468	100%	0 days	476	[Gantt bar from 23/1/18 to 16/11/18]																											
472	231181	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTINGS IN PORTION A TO D, K & L (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No.327 - Late Approval of Street Lighting Design including Lengthly Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	0 days	473,474	[Gantt bar from 16/4/18 to 30/6/19]																											
473	231182	CE-100 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION A TO D, K & L (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	472	0%	110 days	475	[Gantt bar from 1/7/19 to 8/10/19]																											
474	231183	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthly 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	472	0%	0 days	475	[Gantt bar from 1/7/19 to 26/1/20]																											
475	231184	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	474,473	0%	0 days	477	[Gantt bar from 27/1/20 to 6/3/20]																											
476	231190	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	190 days	21 days	Sat 17/1/18	Sat 25/5/19	NA	NA	471	0%	286 days	477	[Gantt bar from 17/1/18 to 25/5/19]																											
477	231191	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	30 days	0 day	Sat 7/3/20	Sun 5/4/20	NA	NA	476,475	0%	0 days	482,485	[Gantt bar from 7/3/20 to 5/4/20]																											
478	232000	<b>PORTION J1</b>	<b>1316 days</b>		<b>Sun 28/8/16</b>	<b>Sun 5/4/20</b>	<b>Sun 28/8/16</b>	<b>NA</b>		<b>99%</b>	<b>870 days</b>		[Summary bar for Portion J1 from 28/8/16 to 5/4/20]																											
479	232010	POSSESSION OF SITE (J1)	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	610FS+60 days	100%	0 days	480SS	[Milestone diamond at 28/8/16]																											
480	232020	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	Mon 29/8/16	Wed 12/10/16	479SS	100%	0 days	481	[Gantt bar from 29/8/16 to 12/10/16]																											
481	232030	SITE INVESTIGATION	90 days	10 days	Thu 13/10/16	Tue 10/1/17	Thu 13/10/16	Tue 10/1/17	480	100%	0 days	485	[Gantt bar from 13/10/16 to 10/1/17]																											
482	232031	PORTION K - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 5/4/20	Sun 5/4/20	NA	NA	477	0%	870 days		[Milestone diamond at 5/4/20]																											
483	232032	W3 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Thu 30/5/19	Thu 30/5/19	NA	NA	33	0%	1181 days		[Milestone diamond at 30/5/19]																											
484	232033	W3 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Mon 1/4/19	Mon 1/4/19	NA	NA	34	0%	1241 days		[Milestone diamond at 1/4/19]																											
485	230040	W3 - PLANNED COMPLETION DATE OF WORKS WITH CE / NCE EFFECT UP TO THIS PROG DATE	0 days	0 day	Sun 5/4/20	Sun 5/4/20	NA	NA	481,477	0%	0 days	702,645,35	[Milestone diamond at 5/4/20]																											
486	230050	<b>SECTION W4 PUBLIC TOILET</b>	<b>630 days</b>		<b>Thu 30/6/16</b>	<b>Wed 21/3/18</b>	<b>Thu 30/6/16</b>	<b>Wed 21/3/18</b>		<b>100%</b>	<b>0 days</b>		[Summary bar for Section W4 from 30/6/16 to 21/3/18]																											
536	241465	W4 (PORTION L) - LATEST REVISED COMPLETION DATE	1 day	0 day	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	41	100%	0 days		[Milestone diamond at 21/3/18]																											
537	241480	W4 - COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCREMENT WEATHER & OTHERS ISSUE	0 days	0 day	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	Wed 21/3/18	535	100%	0 days	706,645,41	[Milestone diamond at 21/3/18]																											
538	250000	<b>SECTION W5 (PORTION M)</b>	<b>1371 days</b>		<b>Thu 30/6/16</b>	<b>Tue 31/3/20</b>	<b>Thu 30/6/16</b>	<b>NA</b>		<b>77%</b>	<b>875 days</b>		[Summary bar for Section W5 from 30/6/16 to 31/3/20]																											
539	250010	STARTING DATE OF CONTRACT	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	542SS	[Milestone diamond at 30/6/16]																											
540	250020	APPLICATION OF EXCAVATION PERMIT	485 days	0 day	Thu 30/6/16	Fri 27/10/17	Thu 30/6/16	Fri 27/10/17	2SS	100%	0 days	551	[Gantt bar from 30/6/16 to 27/10/17]																											
541	251000	<b>PORTION M (BRIDGE E)</b>	<b>1371 days</b>		<b>Thu 30/6/16</b>	<b>Tue 31/3/20</b>	<b>Thu 30/6/16</b>	<b>NA</b>		<b>74%</b>	<b>0 days</b>		[Summary bar for Portion M from 30/6/16 to 31/3/20]																											
542	251010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	539SS	100%	0 days	543SS,546SS,544SS	[Milestone diamond at 30/6/16]																											
543	251020	INITIAL SURVEY	63 days	2 days	Thu 30/6/16	Wed 31/8/16	Thu 30/6/16	Wed 31/8/16	542SS	100%	0 days	549	[Gantt bar from 30/6/16 to 31/8/16]																											
544	251030	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	Thu 30/6/16	Wed 27/7/16	542SS	100%	0 days	545	[Gantt bar from 30/6/16 to 27/7/16]																											
545	251040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	491 days	5 days	Thu 28/7/16	Thu 30/11/17	Thu 28/7/16	Thu 30/11/17	544	100%	0 days	549SS+10 days	[Gantt bar from 28/7/16 to 30/11/17]																											
546	251050	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	Thu 30/6/16	Sat 13/8/16	542SS	100%	0 days	547	[Gantt bar from 30/6/16 to 13/8/16]																											
547	251060	APPROVAL OF TDMP FOR PRE-DRILLING WORKS BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	Sun 14/8/16	Sat 27/8/16	546	100%	0 days	548	[Gantt bar from 14/8/16 to 27/8/16]																											
548	251070	STARTING DATE OF DRY SEASON	0 days	0 day	Tue 1/11/16	Tue 1/11/16	Tue 1/11/16	Tue 1/11/16	547	100%	0 days	549	[Milestone diamond at 1/11/16]																											
549	251080	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/1/16	Tue 1/11/16	Wed 30/1/16	548,543,545SS+10 days	100%	0 days	550	[Gantt bar from 1/11/16 to 30/1/16]																											
550	251090	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 7/12/16	Thu 1/12/16	Wed 7/12/16	549	100%	0 days	551	[Gantt bar from 1/12/16 to 7/12/16]																											
551	251100	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	Sun 15/1/17	Sat 21/1/17	550,540	100%	0 days	552,553FS+7 days	[Gantt bar from 15/1/17 to 21/1/17]																											
552	251110	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	Wed 1/3/17	Tue 7/3/17	551	100%	0 days		[Gantt bar from 1/3/17 to 7/3/17]																											
553	251120	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	Wed 8/3/17	Fri 31/3/17	551FS+7 days	100%	0 days	554	[Gantt bar from 8/3/17 to 31/3/17]																											
554	251130	END DATE OF DRY SEASON	0 days	0 day	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	Fri 31/3/17	553	100%	0 days	555FS+216 days,556	[Milestone diamond at 31/3/17]																											
555	251140	SUBMISSION, APPROVAL, PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	450 days	30 days	Fri 3/11/17	Sat 26/1/19	Fri 3/11/17	Sat 26/1/19	554FS+216 days	100%	0 days	572	[Gantt bar from 3/11/17 to 26/1/19]																											
556	251150	PREPARATION OF TDMP FOR PILING WORKS	36 days	7 days	Sat 1/4/17	Sat 6/5/17	Sat 1/4/17	Sat 6/5/17	554	100%	0 days	557	[Gantt bar from 1/4/17 to 6/5/17]																											
557	251160	APPROVAL OF TDMP FOR PILING WORKS BY SUPERVISOR/DSD	87 days	2 days	Sun 7/5/17	Tue 1/8/17	Sun 7/5/17	Tue 1/8/17	556	100%	0 days	558	[Gantt bar from 7/5/17 to 1/8/17]																											
558	251170	STARTING DATE OF DRY SEASON	1 day	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	557	100%	0 days	559,586SS+30 days	[Milestone diamond at 1/11/17]																											
559	251180	TEMPORARY DRAINAGE WORKS	15 days	2 days	Wed 1/11/17	Wed 15/11/17	Wed 1/11/17	Wed 15/11/17	558	100%	0 days	560,561	[Gantt bar from 1/11/17 to 15/11/17]																											
560	251190	PILING WORKS AT GRID 2	25 days	4 days	Thu 16/11/17	Sun 10/12/17	Thu 16/11/17	Sun 10/12/17	559	100%	0 days	562,563,576	[Gantt bar from 16/11/17 to 10/12/17]																											
561	251220	PILING WORKS AT GRID 3	25 days	4 days	Thu 16/11/17	Sun 10/12/17	Thu 16/11/17	Sun 10/12/17	559	100%	0 days	562,563	[Gantt bar from 16/11/17 to 10/12/17]																											
562	251225	PILE LOAD TEST	50 days	1 day	Mon 11/12/17	Mon 29/1/18	Mon 11/12/17	Mon 29/1/18	560,561	100%	0 days	564FS+18 days	[Gantt bar from 11/12/17 to 29/1/18]																											
563	251230	PILE CAP CONSTRUCTION	90 days	1 day	Mon 11/12/17	Sat 10/3/18	Mon 11/12/17	Sat 10/3/18	560,561	100%	0 days	564	[Gantt bar from 11/12/17 to 10/3/18]																											
564	251240	REMOVAL OF TEMPORARY DRAINAGE WORK	21 days	2 days	Sun 11/3/18	Sat 31/3/18	Sun 11/3/18	Sat 31/3/18	562FS+18 days,563	100%	0 days	565	[Gantt bar from 11/3/18 to 31/3/18]																											
565	251250	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	564	100%	0 days		[Milestone diamond at 31/3/18]																											
566	251251	IMPLEMENTATION OF TTA AT GRID 1	14 days	0 day	Wed 1/11/17	Tue 14/11/17	Wed 1/11/17	Tue 14/11/17	565	100%	0 days	567	[Gantt bar from 1/11/17 to 14/11/17]																											
567	251252	CE-068 - EXCAVATION OF INSPECTION TRENCH AND CE-069 - FORMING AN OPENING AT EXISTING RETAINING WALL FOR PILING WORKS OF P2A, P4A AND P6A IN BRIDGE E	28 days	0 day	Wed 8/11/17	Tue 5/12/17	Wed 8/11/17	Tue 5/12/17	566	100%	0 days	568	[Gantt bar from 8/11/17 to 5/12/17]																											
568	251255	PILING WORKS AT GRID 1	72 days	2 days	Wed 6/12/17	Thu 15/2/18	Wed 6/12/17	Thu 15/2/18	567	100%	0 days	569	[Gantt bar from 6/12/17 to 15/2/18]																											
569	251260	PILE LOAD TEST AT GRID 1 (+ DELAY DUE TO SKJV NCE No.84 - SUSPENSION OF TENSION LOADING TEST)	28 days	7 days	Fri 16/2/18	Thu 15/3/18	Fri 16/2/18	Thu 15/3/18	568	100%	0 days	570	[Gantt bar from 16/2/18 to 15/3/18]																											

Task: [Solid bar] Summary: [Dashed bar] External Milestone: [Diamond] Inactive Summary: [Dotted bar] Manual Summary Rollup: [Thick bar] Finish-only: [Blue bar] Progress: [Thin bar]

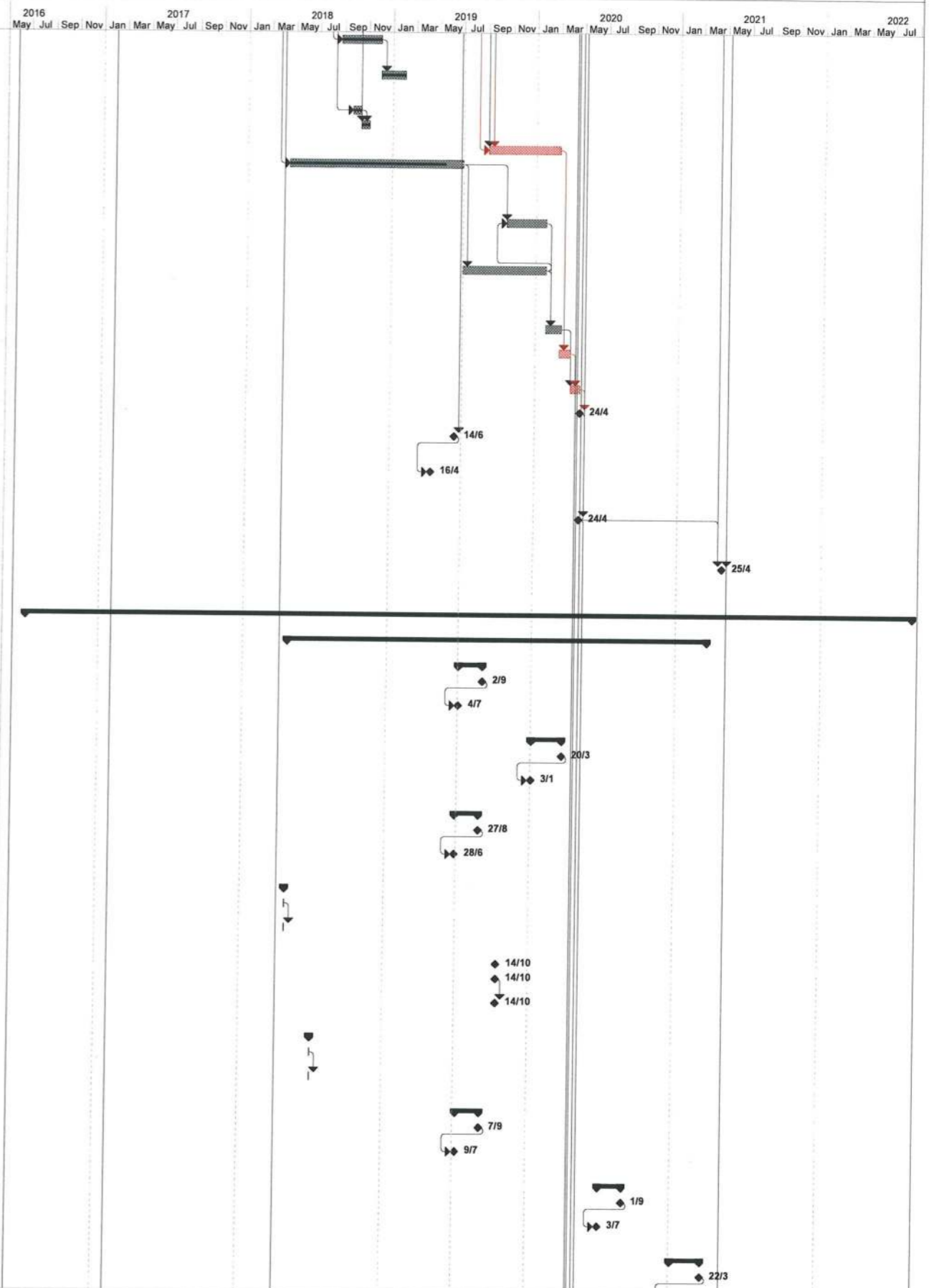
Split: [Dotted bar] Project Summary: [Dotted bar] Inactive Task: [Dotted bar] Manual Task: [Thin bar] Manual Summary: [Thick bar] Critical: [Thick bar] Deadline: [Thick bar]

Milestone: [Diamond] External Tasks: [Dotted bar] Inactive Milestone: [Dotted bar] Duration-only: [Thin bar] Start-only: [Thin bar] Critical Split: [Thin bar]





ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors
630	271150	RW 26 + SKJV NCE No.169 - Using Granular Fill for Backfilling	100 days	2 days	Fri 24/8/18	Sat 1/12/18	Fri 24/8/18	Sat 1/12/18	628SS	100%	0 days	631
631	271160	STREAM DECKING D8 + SKJV NCE No.307 - Additional Retaining Wall RW24C and box culvert 8A	62 days	2 days	Sun 2/12/18	Fri 1/2/19	Sun 2/12/18	Fri 1/2/19	630	100%	0 days	
632	271170	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Sun 23/9/18	Sat 13/10/18	Sun 23/9/18	Sat 13/10/18	628SS+30 days	100%	0 days	633
633	271180	DEMOLITION OF EXISTING STRUCTURE @ APPROX. CH.KW0+900	21 days	3 days	Sun 14/10/18	Sat 3/11/18	Sun 14/10/18	Sat 3/11/18	632,615	100%	0 days	639
634	271190	EARTHWORKS AND DRAINAGE WORKS	180 days	10 days	Tue 3/9/19	Sat 29/2/20	NA	NA	629FS-120 days,624FS-120	0%	0 days	639,637
635	271191	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No.327 - Late Approval of Street Lighting Design including Lengthly Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	24 days	636,637
636	271192	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Sat 19/10/19	Sun 26/1/20	NA	NA	635,637FS-100 days	0%	24 days	638
637	271193	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthly 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	635	0%	24 days	638,636FS-100 days
638	271194	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	637,636	0%	24 days	640
639	271200	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	30 days	7 days	Sun 1/3/20	Mon 30/3/20	NA	NA	634	0%	0 days	640
640	271201	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Tue 31/3/20	Fri 24/4/20	NA	NA	639,638	0%	0 days	641
641	271205	PORTON J2/J3 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 24/4/20	Fri 24/4/20	NA	NA	640	0%	0 days	644
642	271210	W7 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Fri 14/6/19	Fri 14/6/19	NA	NA	60	0%	1166 days	643FS-60 days
643	271211	W7 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P1 TIME SAVINGS EFFECT (-60 days)	0 days	0 day	Tue 16/4/19	Tue 16/4/19	NA	NA	642FS-60 days	0%	1226 days	
644	271215	W7 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 24/4/20	Fri 24/4/20	NA	NA	641	0%	0 days	645,62,718
645	200010	SECTION W1 TO W7 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	608,537,485,452,235,644,5	0%	485 days	
646	300000	LANDSCAPING SOFTWARES AND ESTABLISHMENT WORK	2246 days		Thu 30/6/16	Tue 23/8/22	Thu 30/6/16	NA		0%	0 days	
647	300010	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1064 days		Mon 23/4/18	Mon 22/3/21	Mon 23/4/18	NA		99%	520 days	
648	300020	SECTION W8A	60 days		Thu 4/7/19	Mon 2/9/19	NA	NA		0%	1087 days	
649	300031	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 2/9/19	Mon 2/9/19	NA	NA		0%	1087 days	650FS-60 days
650	300041	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Thu 4/7/19	Thu 4/7/19	NA	NA	649FS-60 days	0%	1147 days	
651	300050	SECTION W8B	77 days		Fri 3/1/20	Fri 20/3/20	NA	NA		0%	887 days	
652	300061	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Fri 20/3/20	Fri 20/3/20	NA	NA		0%	887 days	653FS-77 days
653	300071	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 3/1/20	Fri 3/1/20	NA	NA	652FS-77 days	0%	964 days	
654	300080	SECTION W8C	60 days		Fri 28/6/19	Tue 27/8/19	NA	NA		0%	1093 days	
655	300091	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 27/8/19	Tue 27/8/19	NA	NA		0%	1093 days	656FS-60 days
656	300101	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 28/6/19	Fri 28/6/19	NA	NA	655FS-60 days	0%	1153 days	
657	300110	SECTION W8D	1 day		Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	Mon 23/4/18		100%	0 days	
658	300121	REVISED COMPLETION DATE UP TO THIS PROG DATE	1 day		Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	Mon 23/4/18		100%	0 days	659
659	300131	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	1 day		Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	Mon 23/4/18	658	100%	0 days	
660	300140	SECTION W8E	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA		0%	1045 days	
661	300151	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA		0%	1045 days	662
662	300161	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA	661	0%	1045 days	
663	300170	SECTION W8F	1 day		Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	Sun 1/7/18		100%	0 days	
664	300181	REVISED COMPLETION DATE UP TO THIS PROG DATE	1 day		Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	Sun 1/7/18		100%	0 days	665
665	300191	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	1 day		Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	Sun 1/7/18	664	100%	0 days	
666	300200	SECTION W8G	60 days		Tue 9/7/19	Sat 7/9/19	NA	NA		0%	1082 days	
667	300211	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Sat 7/9/19	Sat 7/9/19	NA	NA		0%	1082 days	668FS-60 days
668	300221	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Tue 9/7/19	Tue 9/7/19	NA	NA	667FS-60 days	0%	1142 days	
669	300230	SECTION W8A	60 days		Fri 3/7/20	Tue 1/9/20	NA	NA		0%	722 days	
670	300241	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 1/9/20	Tue 1/9/20	NA	NA		0%	722 days	671FS-60 days
671	300251	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 3/7/20	Fri 3/7/20	NA	NA	670FS-60 days	0%	782 days	
672	300260	SECTION W8B	77 days		Mon 4/1/21	Mon 22/3/21	NA	NA		0%	520 days	
673	300271	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 22/3/21	Mon 22/3/21	NA	NA		0%	520 days	674FS-77 days



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME





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**APPENDIX B  
MONITORING REQUIREMENTS**

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**Appendix B - Environmental Impact Monitoring Requirements**

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub> at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	<ul style="list-style-type: none"> <li>• N1 - HKMLC Wong Chan Sook Ying Memorial School</li> <li>• N2 – Bethel High School</li> <li>• N3 – No. 159 Mai Po San Tsuen</li> <li>• N5 – Block 2, Dills Corner Garden</li> <li>• N6 – Home of Loving Faithfulness</li> <li>• N7 – Village House in Shek Wu Wai</li> </ul>	<ul style="list-style-type: none"> <li>• N1 – Façade measurement at Rooftop (about 5/F) area</li> <li>• N2 – Façade measurement at Rooftop (about 4/F) area</li> <li>• N3 – Free field measurement at G/F area</li> <li>• N5 – Free field measurement at G/F area</li> <li>• N6 – Façade measurement at Rooftop (about 3/F) area</li> <li>• N7 – Free field measurement at G/F area</li> </ul>

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

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## Appendix C - 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.

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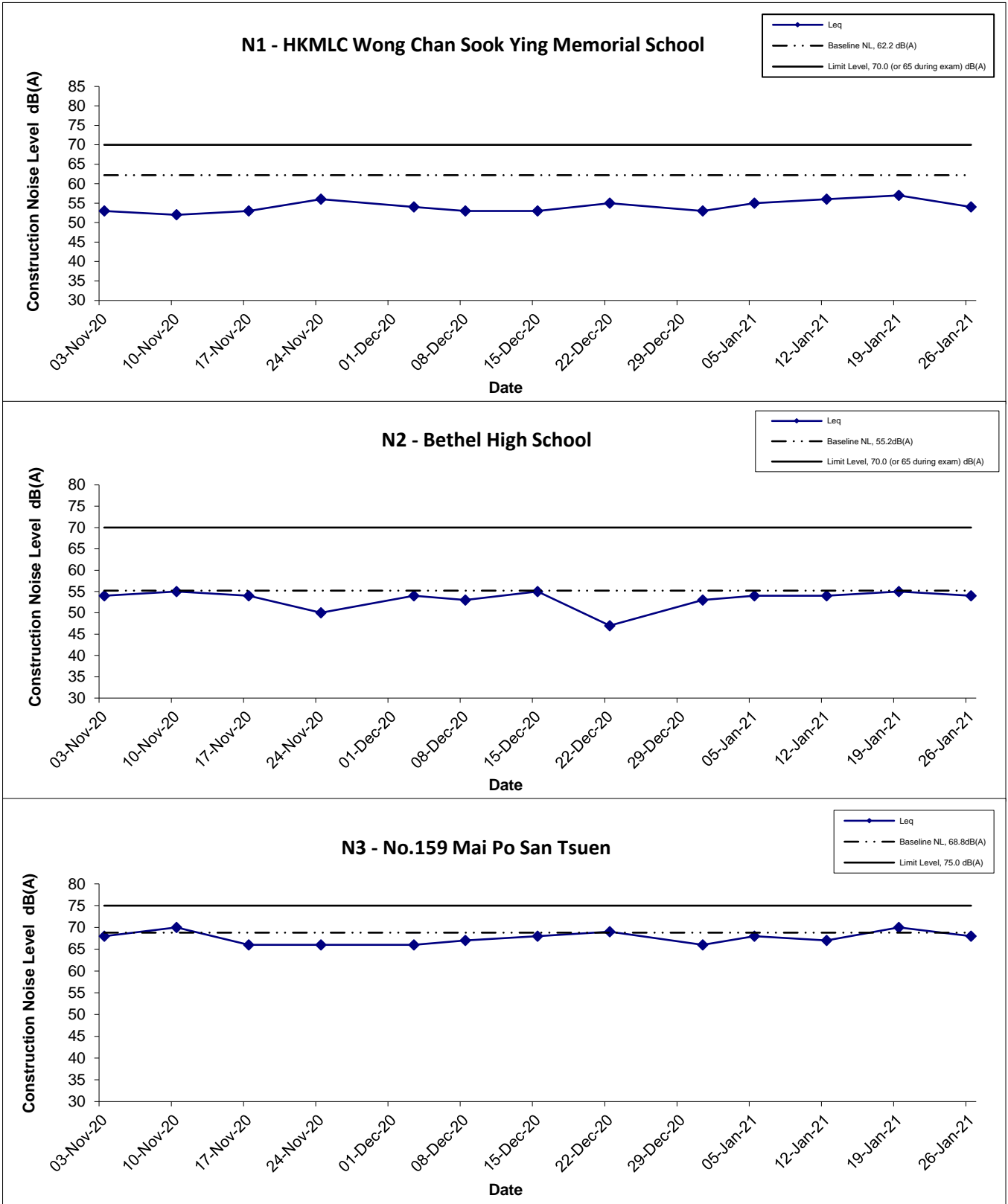
**APPENDIX D  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATIONS**

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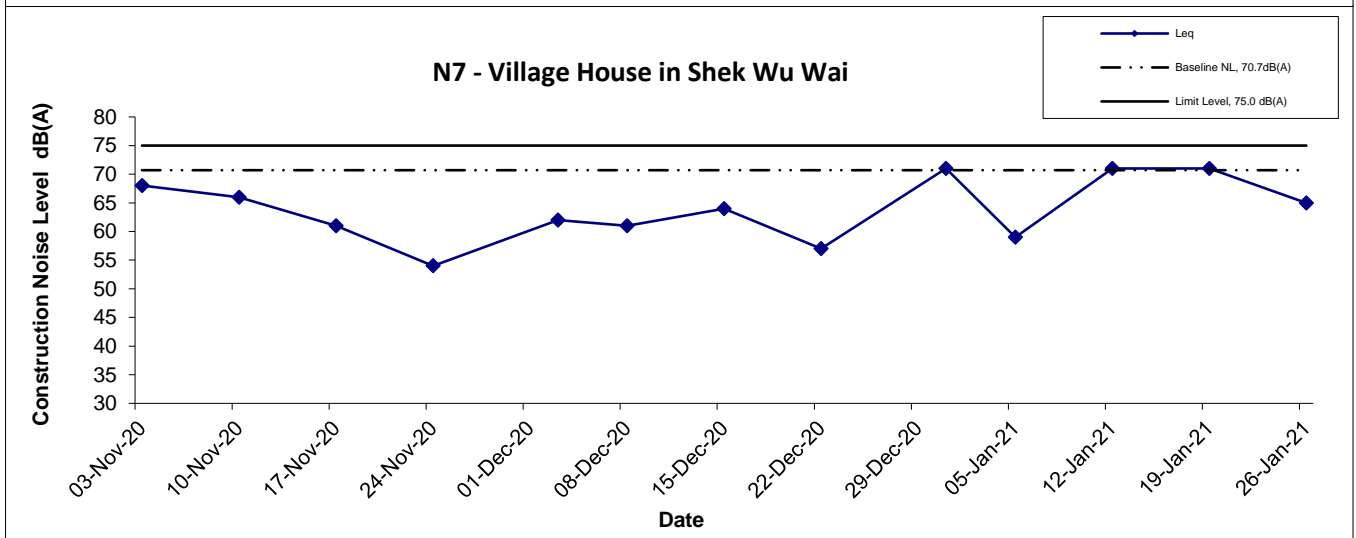
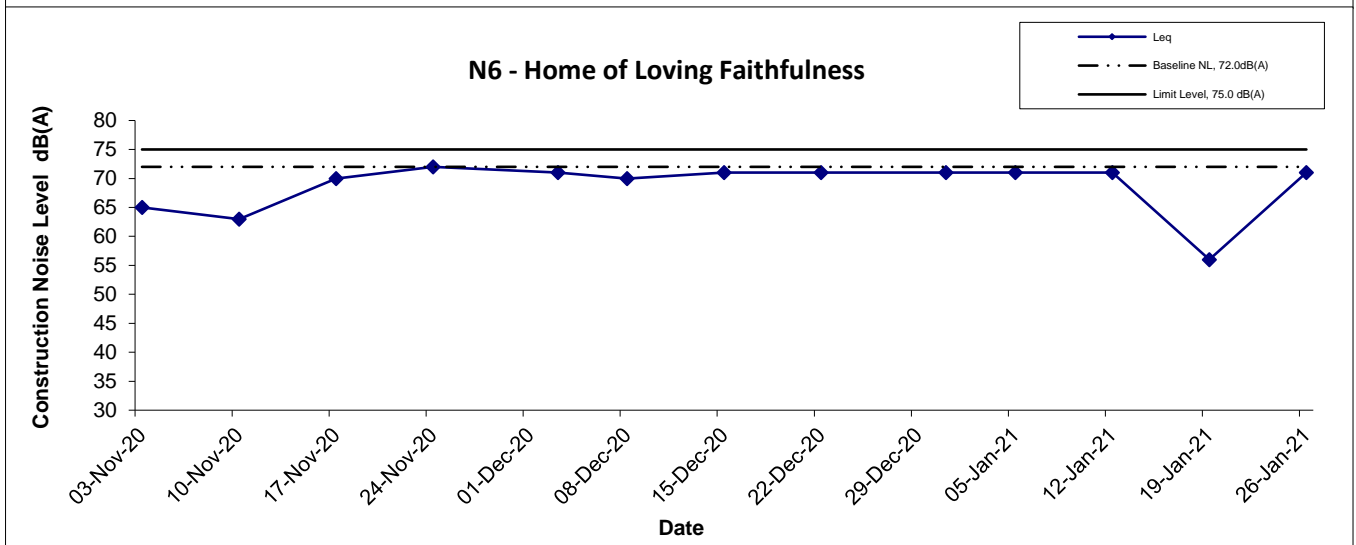
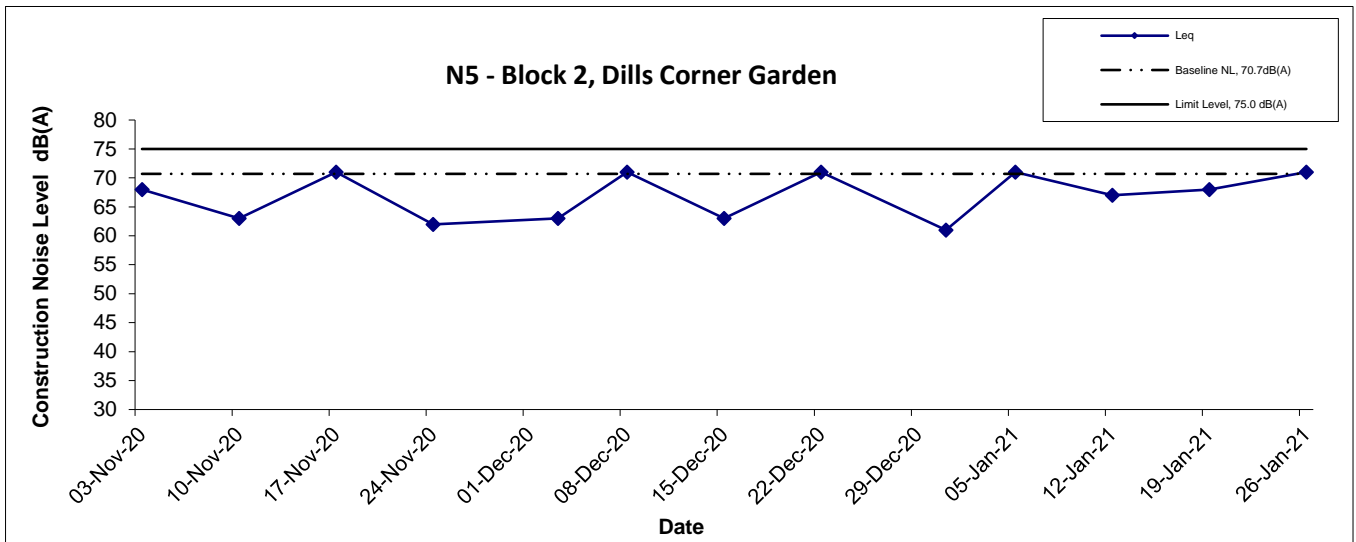


# Noise Levels



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 N.T.S	Project No. MA16036	
	Date Jan 21	Appendix D	

## 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 N.T.S	Project No. MA16036	
	Date Jan 21	Appendix D	

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**APPENDIX E  
ENVIRONMENTAL MITIGATION  
IMPLEMENTATION SCHEDULE (EMIS)**

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**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Air Quality</b>			
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	● 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	● 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	● 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	● 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	● 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	● 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	● 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	● 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 E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Noise Impact</b>			
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 E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<p>S.5.6.2 Table 5-8</p>	<p>S.4.2.19</p>	<p>Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable:</p> <ul style="list-style-type: none"> <li>- mini excavator</li> <li>- mobile crane</li> <li>- dump truck</li> <li>- hand-held electric circular saw</li> <li>- bar bender</li> <li>- vibrating hammer</li> <li>- generator</li> <li>- concrete lorry mixer</li> <li>- lorry</li> <li>- vibratory poker</li> <li>- asphalt paver</li> <li>- compactor</li> <li>- road roller</li> <li>- crane mounted auger</li> <li>- grout mixer</li> <li>- grout pump</li> <li>- drill</li> <li>- road ripper, excavator mounted</li> </ul>	<p>^</p>
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**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PME's where practicable: - 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 <sup>2</sup> .	^
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	^
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	^



**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

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.	^

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
<b>Construction Water Quality</b>			
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	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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
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	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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
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.	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
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.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Construction Waste Management</b>			
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;	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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"> <li>● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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</li> </ul>	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● All waste materials shall be sorted on-site into inert and non-inert C&amp;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)</li> </ul>	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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&amp;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</li> </ul>	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● In order to monitor the disposal of C&amp;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”.</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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;</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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;</li> </ul>	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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.</li> </ul>	^

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
<b>Land Contamination</b>			
S.8.7.2 – S.8.7.3	S.7.2.2	<p>Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.</p> <p>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.</p>	^
S.8.7.5	S.7.3.1	<p>The following control measures should be implemented when handling identified contaminated materials:</p> <ul style="list-style-type: none"> <li>▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection;</li> <li>▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used;</li> <li>▪ 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;</li> <li>▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.</li> </ul>	N/A

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
S.8.7.5	S.7.3.1	<p><u>Management of Contaminated Soils</u></p> <ul style="list-style-type: none"> <li>▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers;</li> <li>▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site;</li> </ul> <p>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 bund where appropriate in order to avoid any leachate from migrating out of the area;</p> <ul style="list-style-type: none"> <li>▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions;</li> <li>▪ 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</li> </ul>	N/A



**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Ecological &amp; Fisheries Impact</b>			
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 E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
-	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 E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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"> <li>▪ Avoid soil storage against trees;</li> <li>▪ Fence off any potentially ecologically sensitive areas;</li> <li>▪ Delineation of works area to prevent encroachment onto adjacent habitats; ▪ Reinstatement of habitat after works;</li> <li>▪ No on-site burning of waste; Waste and refuse in appropriate receptacles;</li> <li>▪ 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</li> <li>▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off</li> </ul>	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<b>Cultural Heritage Impact</b>			
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
<b>Landscape and Visual</b>			
<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.	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
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 Survey Report and approval from relevant departments at that stage	^

**Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<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 E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
	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 E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

<b>EIA Ref.</b>	<b>EM&amp;A Ref.</b>	<b>Mitigation Measures</b>	<b>Status</b>
	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.



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**APPENDIX F**  
**SITE AUDIT SUMMARY**

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**Appendix F Summary of Observation and Recommendation Made during Site Inspection**  
**Summary of Observations and Recommendations Made during Site Inspections from November 2020 to January 2021**

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Follow-up</b>
<i><b>Water Quality</b></i>	N/A	There was no observation in the reporting period.	N/A
<i><b>Air Quality</b></i>	21 Oct – 18 Nov 2020	NRMMs should be displayed on PMEs at Portion H.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 November 2020.
	9 Dec 2020	Stockpiles should be covered by impervious materials at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 December 2020.
	17 – 22 Dec 2020	Stockpile of dusty material should be removed at Portion B.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 December 2020.
	14 – 27 Jan 2021	NRMMs should be displayed on the generator at Portion H.	Follow up actions will be reported in the next quarter.
	20 Jan 2021	Stockpile of dusty material should be covered or kept wet at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 27 January 2021.
<i><b>Noise</b></i>	N/A	There was no observation in the reporting period.	N/A
<i><b>Waste/ Chemical Management</b></i>	29 Jul – 28 Oct 2020	Drainage system should be kept clean. General refuse should be disposed of properly at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 November 2020.
	18 Nov – 22 Dec 2020	Accumulation of construction waste should be avoided at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 December 2020.
	25 Nov 2020	General refuse should be removed at Portion H.	The condition was observed to be improved/rectified by the contractor during the audit session on 2 December 2020

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Follow-up</b>
	9 – 17 Dec 2020	Construction waste should be disposed properly at Portion C.	The condition was observed to be improved/rectified by the contractor during the audit session on 22 December 2020.
	20 – 27 Jan 2021	Accumulation of construction waste and general refuse should be removed at Portion B.	Follow up actions will be reported in the next quarter.
<i><b>Ecology and Fisheries</b></i>	N/A	There was no observation in the reporting period.	N/A
<i><b>Landscape and Visual</b></i>	N/A	There was no observation in the reporting period.	N/A
<i><b>Permits/ Licenses</b></i>	N/A	There was no observation in the reporting period.	N/A

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**APPENDIX G  
MONTHLY SUMMARY WASTE FLOW  
TABLE**

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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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
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	0.14						0.05	0.05	0.05		0.14
Aug	0.15						0.05	0.05	0.05		0.15
Sep	0.08						0.05	0.05	0.05		0.08
Oct	0.07						0.02	0.02	0.02		0.07
Nov	0.07						0.02	0.02	0.02		0.07
Dec	0.01						0.02	0.02	0.02		0.01
Sub-total	1.38	-	-	-	-	-	0.51	0.51	0.51	-	1.38
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	47.92	-	-	-	45.745	0.986	2.17	2.17	2.17	-	2.62

\*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 2021 (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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.05	-	-	-	-	-	0.02	0.02	0.02	-	0.05
Feb		-	-	-	-	-				-	
Mar		-	-	-	-	-					
Apr											
May											
Jun											
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Sub-total	1.43	-	-	-	-	-	0.53	0.53	0.53	-	1.43
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
Total	47.97	-	-	-	45.745	0.986	2.19	2.19	2.19	-	2.62

\*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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
2	1	1	1	2	5	1	1	1	1	1

\*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 m<sup>3</sup>. (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

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

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.

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**APPENDIX H  
SUMMARY OF EXCEEDANCES**

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**Agreement No. CE 67/2015 (HY)**

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

**Appendix H – 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 period)**

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**ANNEX I  
COMPARISONS OF EM&A DATA AND  
EIA PREDICTIONS**

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## Annex I – Comparison of EM&A Data and EIA Predictions

### Comparison of Noise Monitoring Data with EIA predictions

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 (Nov 20), $L_{eq}$ (30min) dB(A)	Reporting Month (Dec 20), $L_{eq}$ (30min) dB(A)	Reporting Month (Jan 21), $L_{eq}$ (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 <sup>(1)</sup>	52.3 - 55.7	52.7 - 54.6	54.1 - 56.6
N2 – Bethel High School	57-64	64 <sup>(1)</sup>	50.2 - 54.9	46.9 - 54.6	53.8 - 55.2
N3 – No. 159 Mai Po San Tsuen	70-73	74 <sup>(2)</sup>	65.6 - 70.1	65.9 - 69	67.5 - 69.9
N5 – Block 2, Dills Corner Garden	73-75	75 <sup>(2)</sup>	62.4 - 70.5	60.5 - 70.7	66.9 - 70.7
N6 – Home of Loving Faithfulness	64-73	74 <sup>(1)</sup>	62.9 - 71.5	70.2 - 71.2	55.7 - 71.4
N7 – Village House in Shek Wu Wai	N/A <sup>(3)</sup>	70 <sup>(2)</sup>	54.4 - 68.1	57.4 - 70.5	59.2 - 70.6

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)