

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)**

August 2019 to October 2019

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 12th 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 1st August 2019 and 31st October 2019.
2. The construction programme is presented in **Appendix A**. The construction activities undertaken in the reporting quarter were:

Portion A	- Installation of Traffic Aids
Portion B	- Construction of Subway A, Internal Finishing & E&M Works
Portion C	- Construction of U-Channel, Shrubs Planting, Installation of Bicycle Parapet, CCTV for Drainage Pipe, Construction of Staircase
Portion D	- Construction of Drainage Pipe, Construction of RW16A
Portion E	- Construction of Drainage Pipe, Laying Road Kerb, Paving Block
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Portion G	- Remaining Works for Box Culvert C, Relocation of Traffic Sign Gantry
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Portion I	- Construction of U-channel in Subway D, Internal Finishing, Reinstatement of Carriageway
Portion J	- Construction of 24A, 24AA, 24C,48, Backfilling for RW 46, Construction of Drainage Pipe, Construction of Road Kerb
Portion K	- Installation of Bicycle Parapet, Installation of Traffic Aids, CCTV for Drainage Pipe
Portion M	- Backfilling behind RW 30A, 30B, Construction of Road Kerb, Construction of Bridge E's Roofing, Dismantle of Existing Roof
Portion N	- Construction of Bridge B

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	
August 2019			
Noise	0	0	N/A
September 2019			
Noise	0	0	N/A
October 2019			
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
 - 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 23rd November 2016. This is the 12th Quarterly EM&A Report summarizing the EM&A works for the Project from 1st August 2019 – 31st October 2019.

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 (August 2019)	12 September 2019
	Monthly Environmental Monitoring & Audit Report (September 2019)	11 October 2019
	Monthly Environmental Monitoring & Audit Report (October 2019)	14 November 2019

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 within the range of predicted mitigated construction noise levels in the EIA Report in this quarter.
- 3.10 The results at N2 were lower than the range of predicted mitigated construction noise levels in the EIA Report in August and September, but slightly lower than the range in October.
- 3.11 The results at N3 were slightly lower than the range of predicted mitigated construction noise levels in the EIA Report in this quarter.
- 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 this quarter.

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 Three environmental complaints were received in the reporting quarter. No 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.

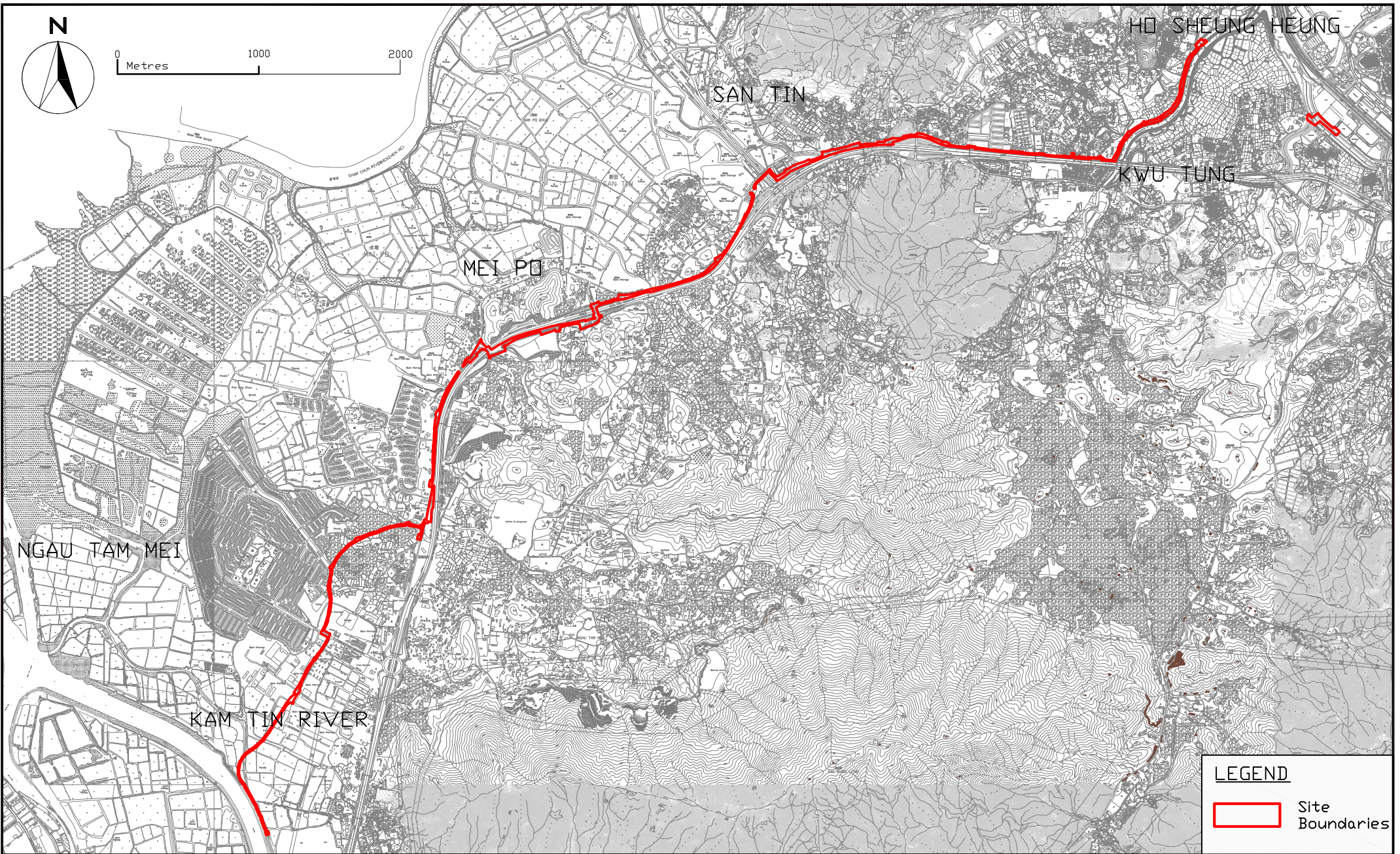
Waste/Chemical Management

- 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 PME or workers.

FIGURES



LEGEND

Site Boundaries



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

SITE LAYOUT PLAN

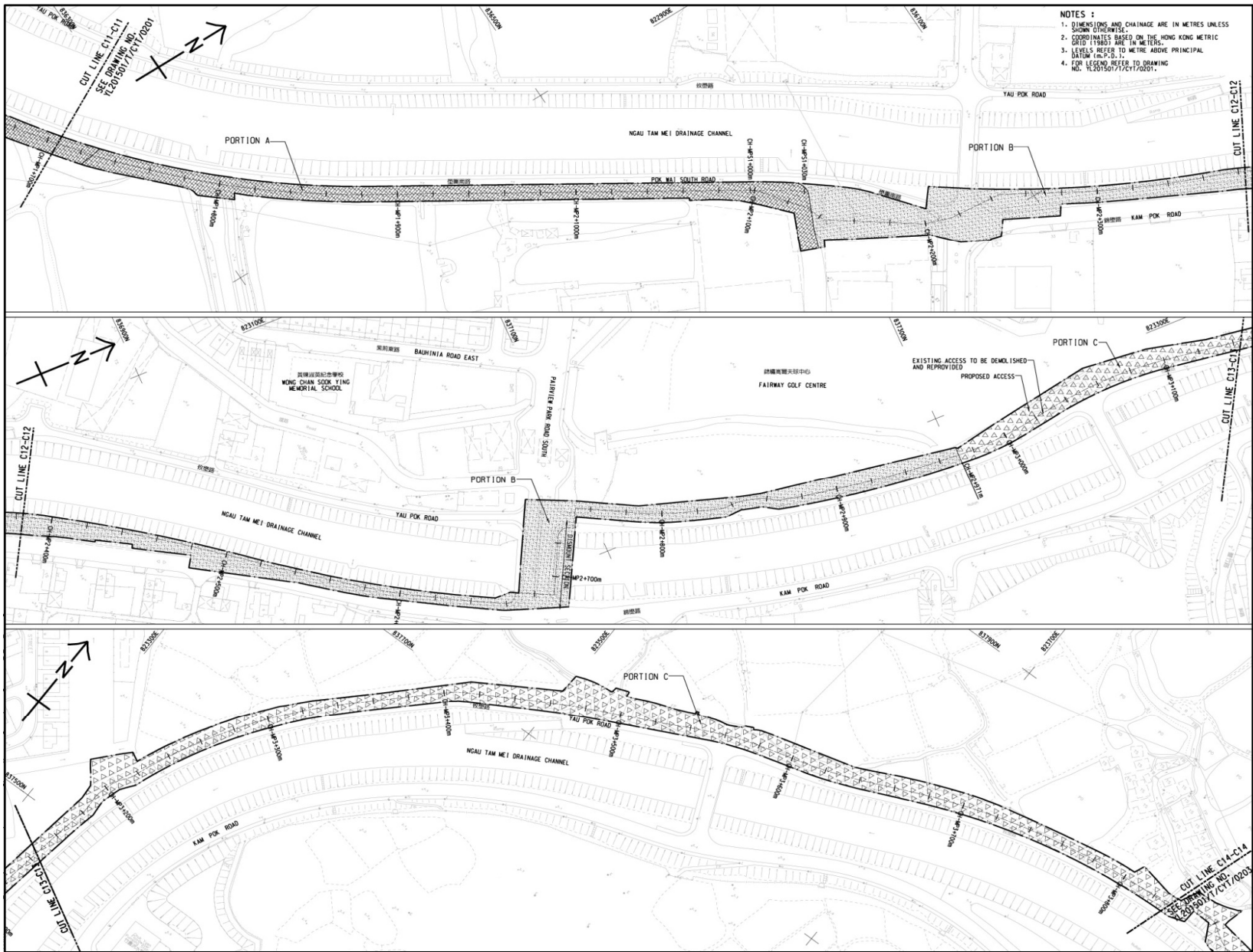
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CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	1a
		REV	-



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

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

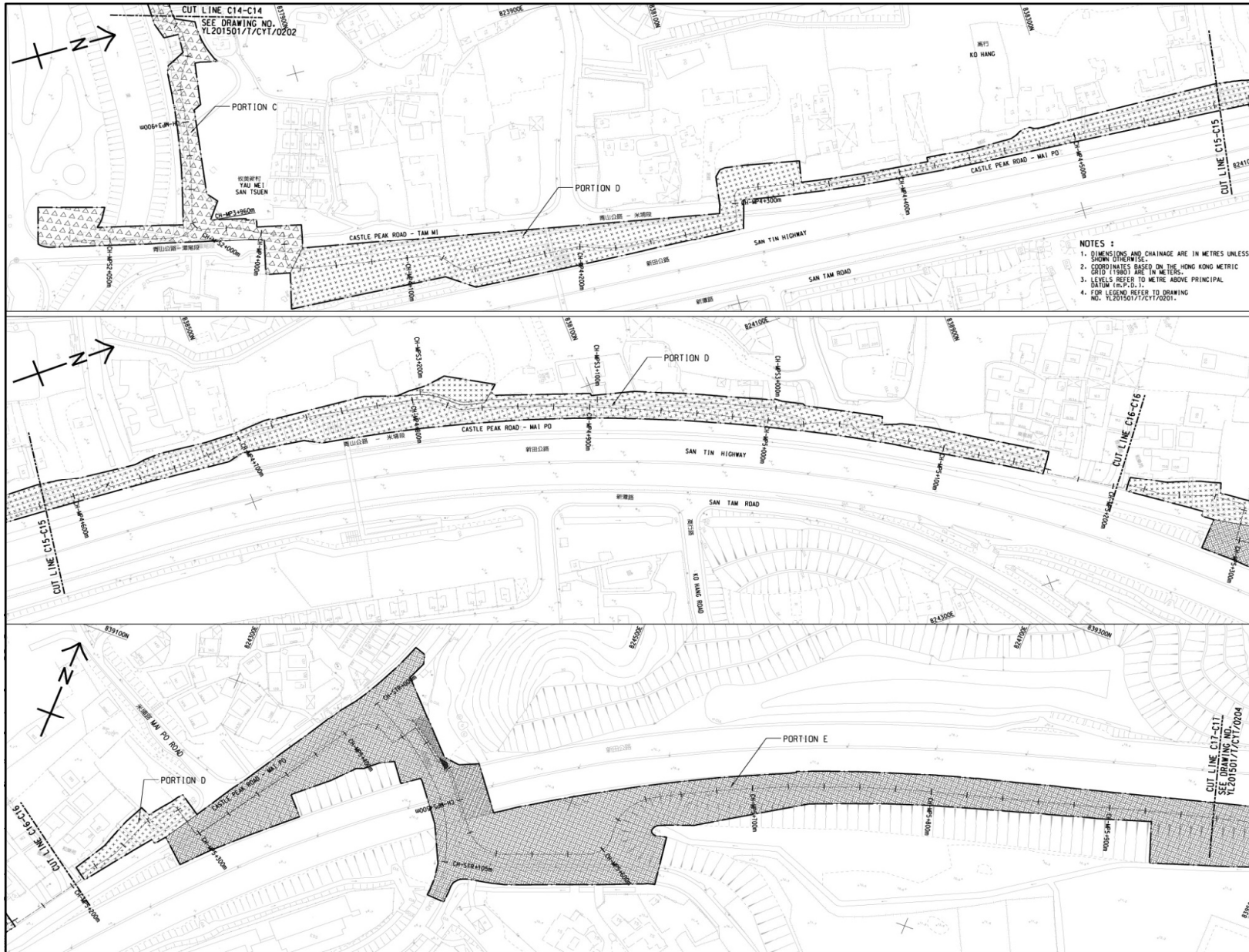
CINOTECH



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

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

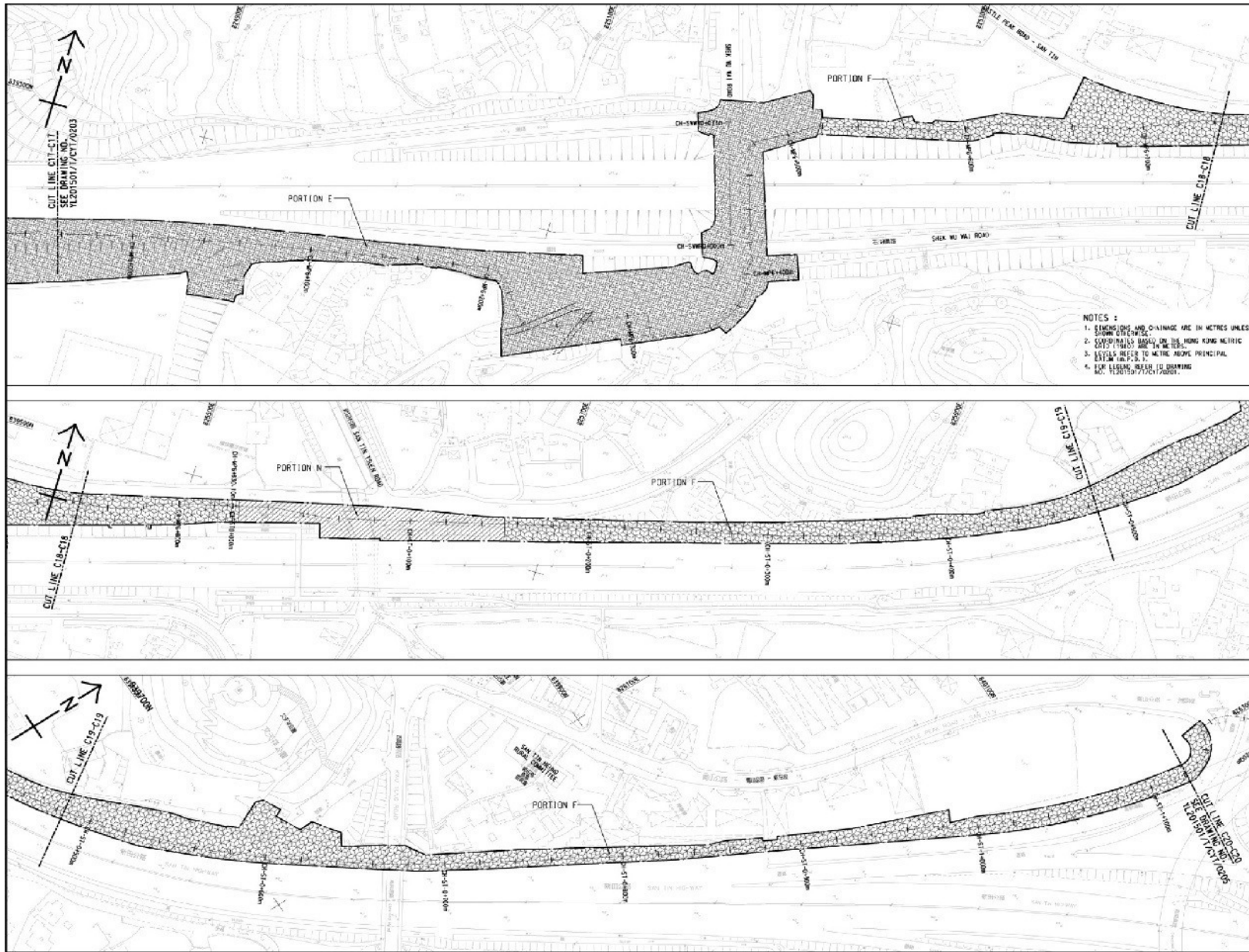




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

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



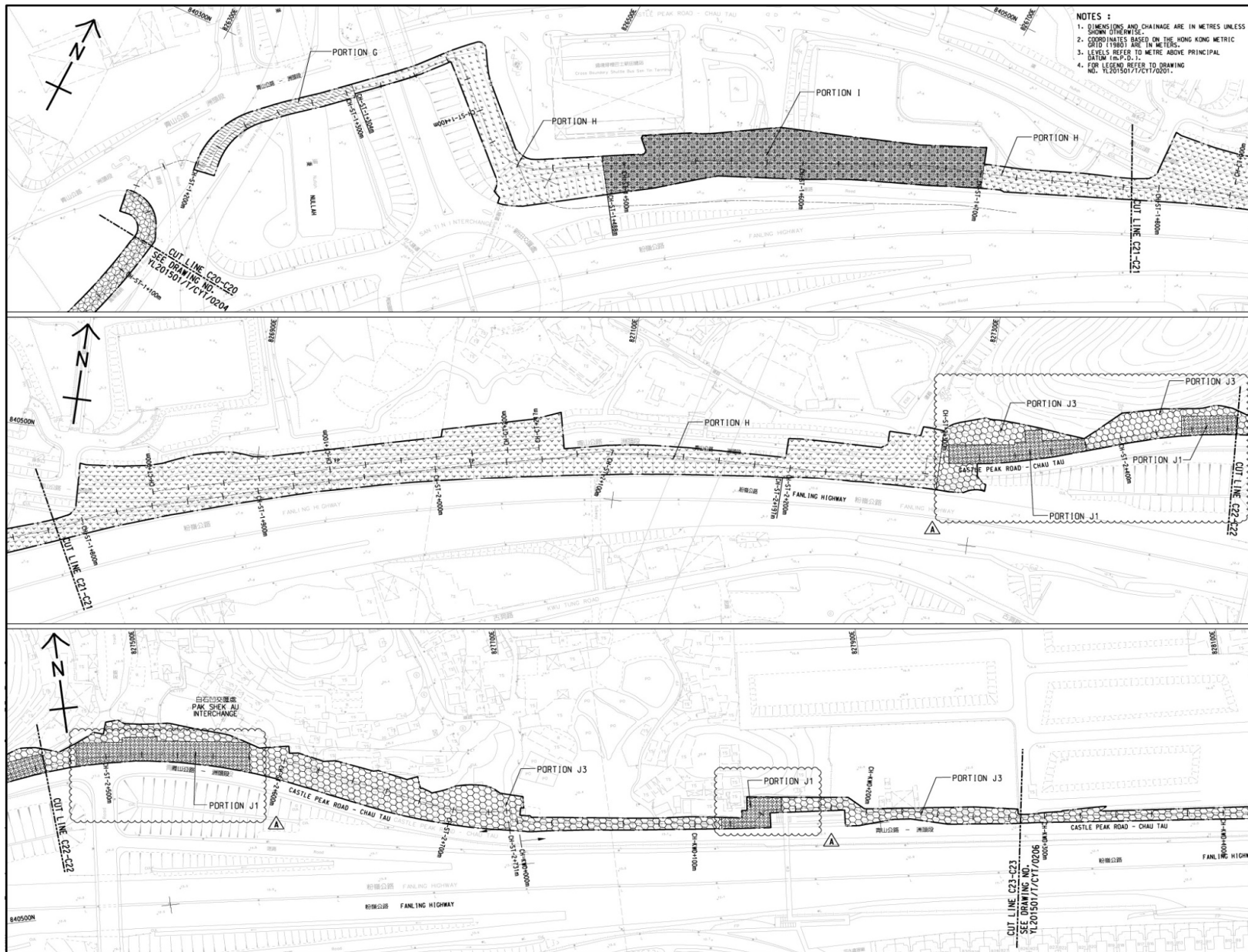


Title

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

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

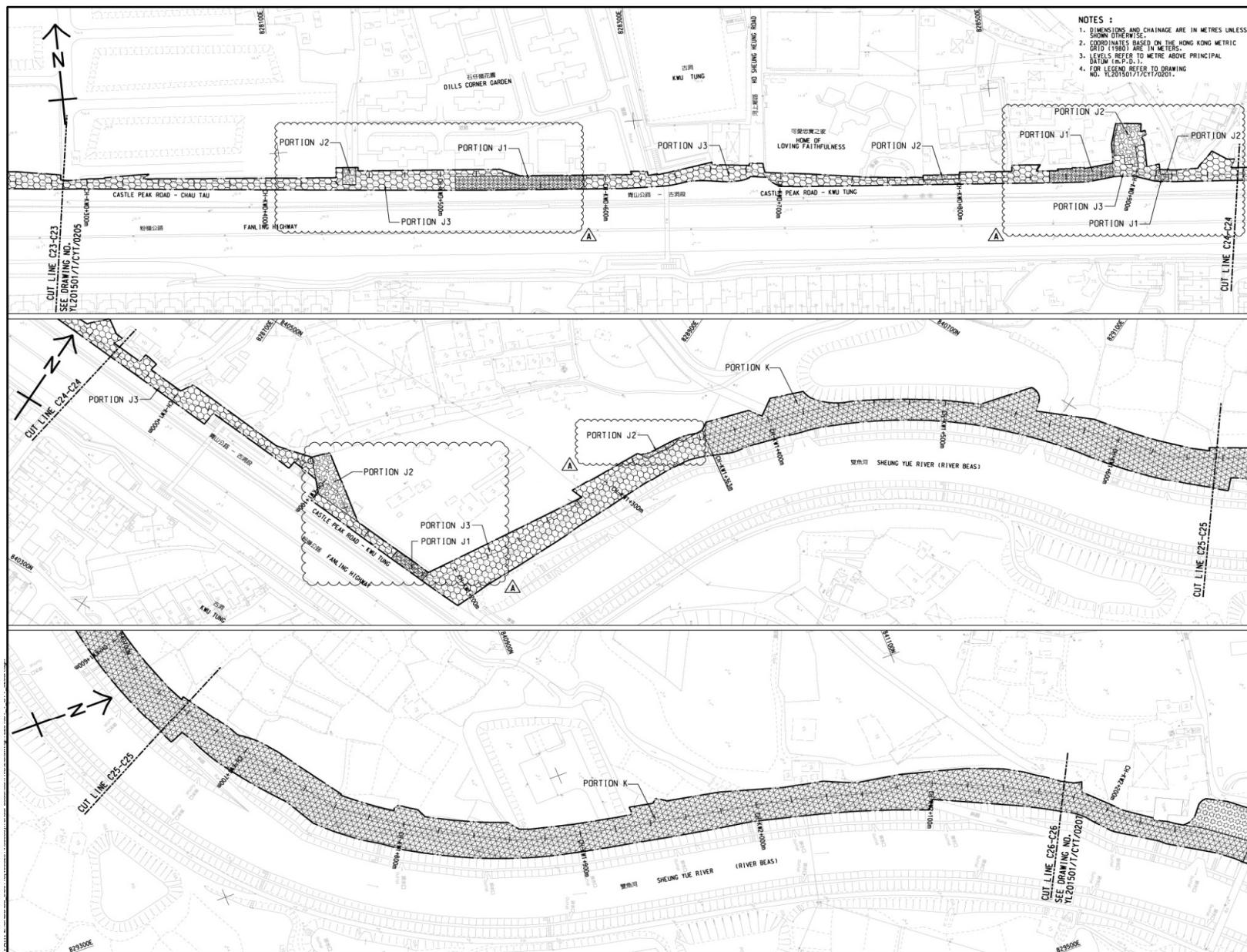
CINOTECH



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

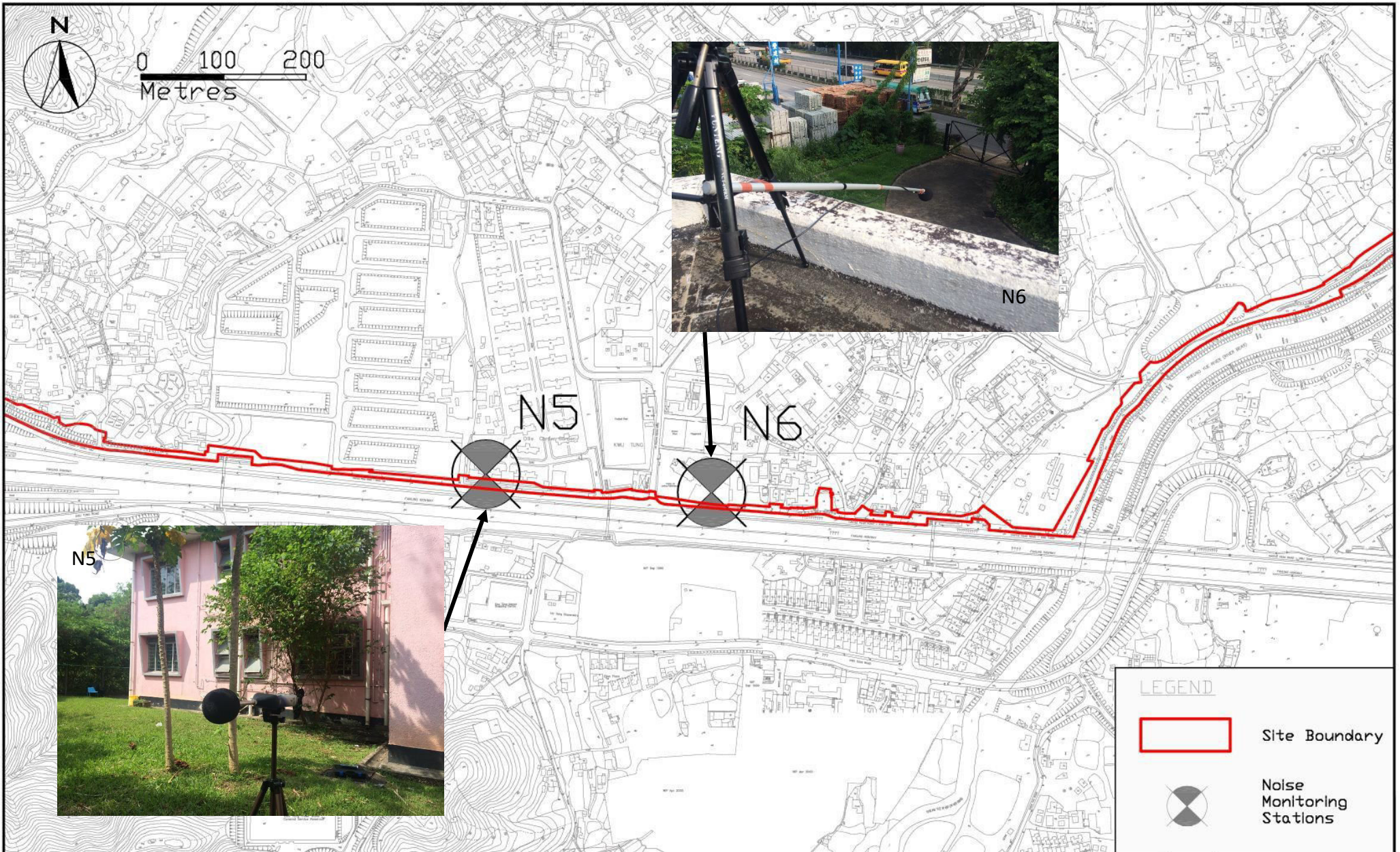
-  Site Boundary
-  Noise Monitoring Stations



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	
JOB No.	MA16036	FIGURE NO.	2a	REV
				-



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

**APPENDIX A
CONSTRUCTION PROGRAMME**



生興 - 豐利聯營
Sang Hing - Kuly Joint Venture

28th June 2019

Our ref.: SKJV/W52/SO/3497

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

By fax & post
Fax no.: 3168 2022

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

Dear Sirs,

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

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

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

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

Thank you for your kind attention

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

Tang Wing Kai
Site Agent

WKT/MKM/TL/tl

Encl.

Summary of Updating Programme upto end of June 2019

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

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

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

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

W7	J1,J2,J3	14/6/2019	16/4/2019	20/4/2020	1) RW48, RW24A, RW24AA, etc	31-Dec-19	1st			
					2) Earthwork and Drainage works	29-Feb-20				
					3) Road Work (except colour dressing)	30-Mar-20				
					2) Approval of Street Lighting	30-Jun-19			2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20				
					4) Colour Dressing	24-Apr-20				

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																																															
1	100000	CONTRACT DURATION (ALL WORKS EXCEPT LANDSCAPING AND ESTABLISHMENT)	1761 days	0 day	Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		99%	485 days		[Gantt bar from Thu 30/6/16 to Sun 25/4/21]																																															
2	100010	COMMENCEMENT OF CONTRACT	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16		100%	0 days	67SS,237SS,454SS,487SS,539SS,59	[Milestone at Thu 30/6/16]																																															
3	100020	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1761 days	0 day	Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		99%	485 days		[Gantt bar from Thu 30/6/16 to Sun 25/4/21]																																															
4	100030	SECTION W1 (PORTION A,B,C & D)	1386 days	0 day	Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		99%	860 days		[Gantt bar from Thu 30/6/16 to Wed 15/4/20]																																															
5	100040	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	7SS+60 days,9SS+151 days,10SS+9	[Milestone at Thu 30/6/16]																																															
6	100050	PORTION A & C	1 day	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16		100%	0 days		[Milestone at Sun 28/8/16]																																															
7	100060	ACCESS DATE	1 day	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	5SS+60 days	100%	0 days		[Milestone at Sun 28/8/16]																																															
8	100070	PORTION B & D	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16		100%	0 days		[Milestone at Sun 27/11/16]																																															
9	100080	ACCESS DATE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	5SS+151 days	100%	0 days		[Milestone at Sun 27/11/16]																																															
10	100085	SECTION W1 ORIGINAL COMPLETION DATE (913 days)	0 days	0 day	Sun 30/12/18	Sun 30/12/18	NA	NA	5SS+914 days	0%	-1 day	63FS+184 days,11FS+157 days	[Milestone at Sun 30/12/18]																																															
11	100086	SECTION W1 LATEST REVISED COMPLETION DATE UP TO THIS PROG DATE (Incorporated Effect of Implementing CE)	0 days	0 day	Wed 5/6/19	Wed 5/6/19	NA	NA	10FS+157 days	0%	1175 days	103,192,233,150,12FS-60 days	[Milestone at Wed 5/6/19]																																															
12	100087	SECTION W1 LATEST REVISED COMPLETION DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT OF 60 Days UP TO THIS PROG DATE (Incorporated Effect of Implementing CE & CSD P3 Effect)	0 days	0 day	Sun 7/4/19	Sun 7/4/19	NA	NA	11FS-60 days	0%	1235 days	104,234,193,151	[Milestone at Sun 7/4/19]																																															
13	100095	SECTION W1 PLANNED COMPLETION DATE WITH CE & NCE EFFECT (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	235	0%	860 days	64	[Milestone at Wed 15/4/20]																																															
14	100100	SECTION W2 (PORTION E, F, G, H, I & N)	1761 days	0 day	Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		99%	485 days		[Gantt bar from Thu 30/6/16 to Sun 25/4/21]																																															
15	100110	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	17SS,19SS+60 days,21SS,22SS+109	[Milestone at Thu 30/6/16]																																															
16	100120	PORTION G, I & N	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16		100%	0 days		[Milestone at Thu 30/6/16]																																															
17	100130	ACCESS DATE	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	15SS	100%	0 days		[Milestone at Thu 30/6/16]																																															
18	100140	PORTION E & H	1 day	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16		100%	0 days		[Milestone at Sun 28/8/16]																																															
19	100150	ACCESS DATE	1 day	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	15SS+60 days	100%	0 days		[Milestone at Sun 28/8/16]																																															
20	100160	PORTION F	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16		100%	0 days		[Milestone at Thu 30/6/16]																																															
21	100170	ACCESS DATE	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	15SS	100%	0 days		[Milestone at Thu 30/6/16]																																															
22	100175	SECTION W2 ORIGINAL COMPLETION DATE (1097 days)	0 days	0 day	Tue 2/7/19	Tue 2/7/19	NA	NA	15SS+1098 days	0%	-1 day	63,23FS+137 days	[Milestone at Tue 2/7/19]																																															
23	100176	SECTION W2 LATEST REVISED COMPLETION DATE UP TO THIS PROG DATE (Incorporated Effect of Implementing CE)	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	22FS+137 days	0%	1011 days	311,345,365,401,427,450,24FS-77 days	[Milestone at Sat 16/11/19]																																															
24	100177	SECTION W2 LATEST REVISED COMPLETION DATE WITH CSD PACKAGE P2, P4 & P5 TIME SAVINGS EFFECT OF 77 Days UP TO THIS PROG DATE (Incorporated Effect of Implementing CE & CSD Effect)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	23FS-77 days	0%	1088 days	312,346,366,402,428,451	[Milestone at Sun 1/9/19]																																															
25	100185	SECTION W2 PLANNED COMPLETION DATE WITH CE & NCE EFFECT (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	452	0%	485 days	64	[Milestone at Sun 25/4/21]																																															
26	100190	SECTION W3 (PORTION K, J1)	1376 days	0 day	Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		99%	870 days		[Gantt bar from Thu 30/6/16 to Sun 5/4/20]																																															
27	100200	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	29SS,31SS+60 days,32SS+914 days	[Milestone at Thu 30/6/16]																																															
28	100210	PORTION K	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16		100%	0 days		[Milestone at Thu 30/6/16]																																															
29	100220	ACCESS DATE	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	27SS	100%	0 days		[Milestone at Thu 30/6/16]																																															
30	100230	PORTION J1	1 day	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16		100%	0 days		[Milestone at Sun 28/8/16]																																															
31	100240	ACCESS DATE	1 day	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	27SS+914 days	100%	0 days		[Milestone at Sun 28/8/16]																																															
32	100245	SECTION W3 ORIGINAL COMPLETION DATE (913 days)	0 days	0 day	Sun 30/12/18	Sun 30/12/18	NA	NA	27SS+914 days	0%	-1 day	63FS+184 days,33FS+151 days	[Milestone at Sun 30/12/18]																																															
33	100246	SECTION W3 LATEST REVISED COMPLETION DATE UP TO THIS PROG DATE (Incorporated Effect of Implementing CE)	0 days	0 day	Thu 30/5/19	Thu 30/5/19	NA	NA	32FS+151 days	0%	1181 days	34FS-60 days,483	[Milestone at Thu 30/5/19]																																															
34	100247	SECTION W3 LATEST REVISED COMPLETION DATE WITH CSD PACKAGE P3 TIME SAVINGS EFFECT OF 60 Days UP TO THIS PROG DATE (Incorporated Effect of Implementing CE & CSD Effect)	0 days	0 day	Mon 1/4/19	Mon 1/4/19	NA	NA	33FS-60 days	0%	1241 days	484	[Milestone at Mon 1/4/19]																																															
35	100255	SECTION W3 PLANNED COMPLETION DATE WITH CE & NCE EFFECT (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Sun 5/4/20	Sun 5/4/20	NA	NA	485	0%	870 days	64	[Milestone at Sun 5/4/20]																																															
36	100260	SECTION W4	629 days	0 day	Thu 30/6/16	Wed 21/3/18	Thu 30/6/16	Wed 21/3/18		100%	0 days		[Gantt bar from Thu 30/6/16 to Wed 21/3/18]																																															
42	100310	SECTION W5	1371 days	0 day	Thu 30/6/16	Tue 31/3/20	Thu 30/6/16	NA		99%	875 days		[Gantt bar from Thu 30/6/16 to Tue 31/3/20]																																															
43	100320	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	45SS,46SS+1098 days	[Milestone at Thu 30/6/16]																																															
44	100330	PORTION M	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16		100%	0 days		[Milestone at Thu 30/6/16]																																															
45	100335	ACCESS DATE	1 day	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	43SS	100%	0 days		[Milestone at Thu 30/6/16]																																															
46	100340	SECTION W5 ORIGINAL COMPLETION DATE (1097 days)	1 day	0 day	Tue 2/7/19	Tue 2/7/19	Tue 2/7/19	Tue 2/7/19	43SS+1098 days	100%	0 days	63,47FS+71 days	[Milestone at Tue 2/7/19]																																															
47	100341	SECTION W5 LATEST REVISED COMPLETION DATE UP TO THIS PROG DATE (Incorporated Effect of Implementing CE)	0 days	0 day	Wed 11/9/19	Wed 11/9/19	NA	NA	46FS+71 days	0%	1077 days	595	[Milestone at Wed 11/9/19]																																															
48	100350	SECTION W5 PLANNED COMPLETION DATE WITH CE & NCE EFFECT (Including Implemented and NOT Implemented CE) UP TO THIS PROG DATE	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	596	0%	875 days	64	[Milestone at Tue 31/3/20]																																															
49	100360	SECTION W6	715 days	0 day	Thu 30/6/16	Fri 15/6/18	Thu 30/6/16	Fri 15/6/18		100%	0 days		[Gantt bar from Thu 30/6/16 to Fri 15/6/18]																																															
55	100410	SECTION W7	1145 days	0 day	Tue 7/3/17	Fri 24/4/20	Tue 7/3/17	NA		99%	851 days		[Gantt bar from Tue 7/3/17 to Fri 24/4/20]																																															
56	100420	INSTRUCTION TO EXECISE	0 days	0 day	Tue 7/3/17	Tue 7/3/17	NA	NA		0%	1145 days	717SS,745SS	[Milestone at Tue 7/3/17]																																															
57	100430	PORTION J2 & J3	1 day	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17		100%	0 days		[Milestone at Tue 7/3/17]																																															
58	100435	ACCESS DATE	1 day	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17		100%	0 days	59SS+731 days	[Milestone at Tue 7/3/17]																																															
59	100440	SECTION W7 ORIGINAL COMPLETION DATE (730 days)	1 day	0 day	Thu 7/3/19	Thu 7/3/19	Thu 7/3/19	Thu 7/3/19	58SS+731 days	100%	0 days	63FS+117 days,60FS+99 days	[Milestone at Thu 7/3/19]																																															
60	100441	SECTION W7 LATEST REVISED COMPLETION DATE UP TO THIS PROG DATE (Incorporated Effect of Implementing CE)	0 days	0 day	Fri 14/6/19	Fri 14/6/19	NA	NA	59FS+99 days	0%	1166 days	642,61FS-60 days	[Milestone at Fri 14/6/19]																																															
61	100442	SECTION W7 LATEST REVISED COMPLETION DATE WITH CSD PACKAGE P1 TIME SAVINGS EFFECT OF 60 Days UP TO THIS PROG DATE (Incorporated Effect of Implementing CE & CSD Effect)	0 days	0 day	Tue 16/4/19	Tue 16/4/19	NA	NA	60FS-60 days	0%	1226 days		[Milestone at Tue 16/4/19]																																															

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	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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											
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 Data]																											



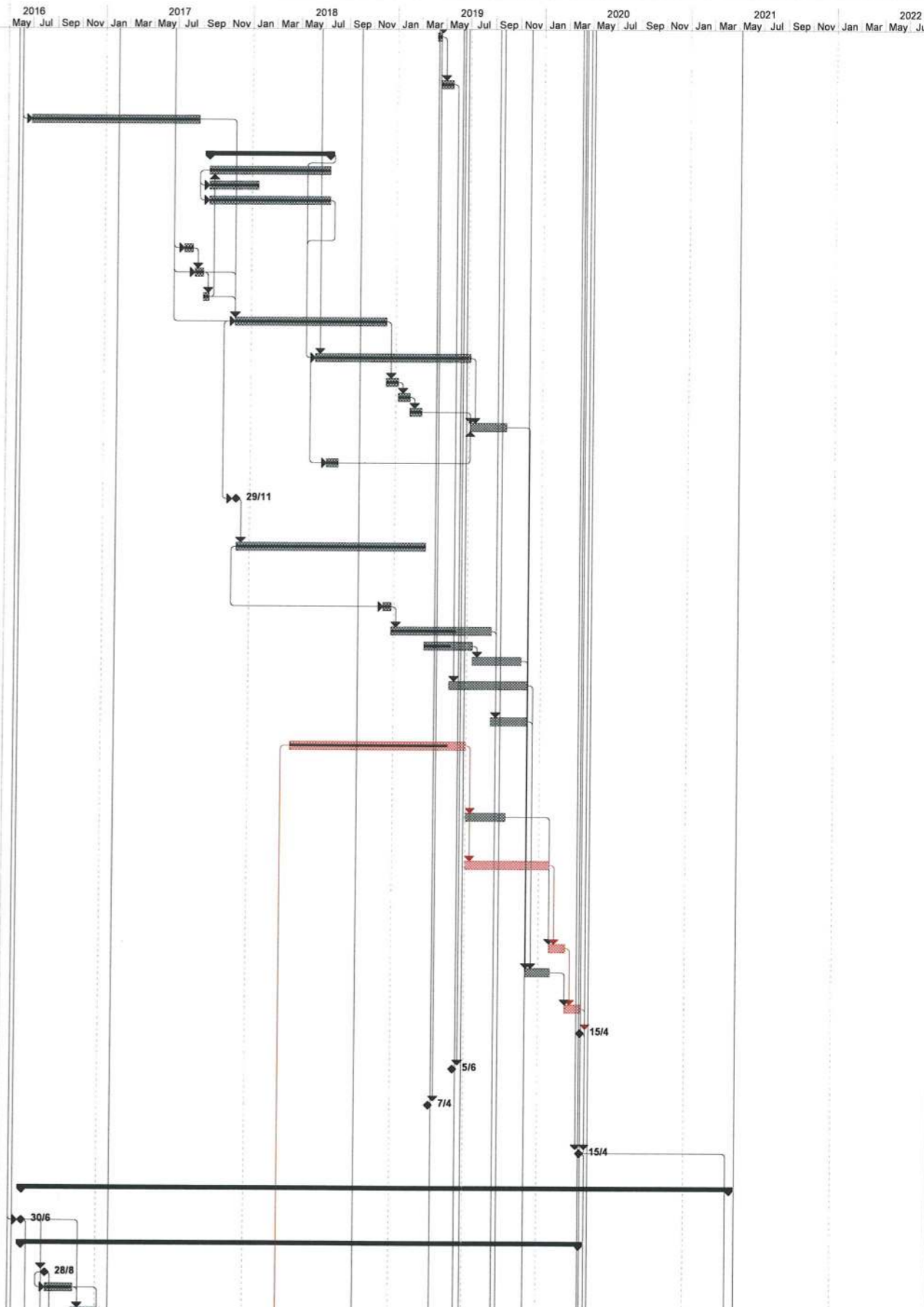
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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



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

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016												2017												2018												2019												2020												2021												2022											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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		[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for 2019]												[Gantt bars for 2020]												[Gantt bars for 2021]												[Gantt bars for 2022]											
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	[Gantt bars for 2016]												[Gantt bars for 2017]												[Gantt bars for 2018]												[Gantt bars for																																															

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)																											
302	221545	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS FROM MP6+020 TO 6+530	350 days	10 days	Thu 4/10/18	Wed 18/9/19	Thu 4/10/18	NA	289,291,292,296,298,299,300	80%	545 days	308FF	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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		[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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 2/1/19	Sat 24/3/18	Wed 2/1/19	321	100%	0 days	335	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											
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	[Gantt Chart Data]																											

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	

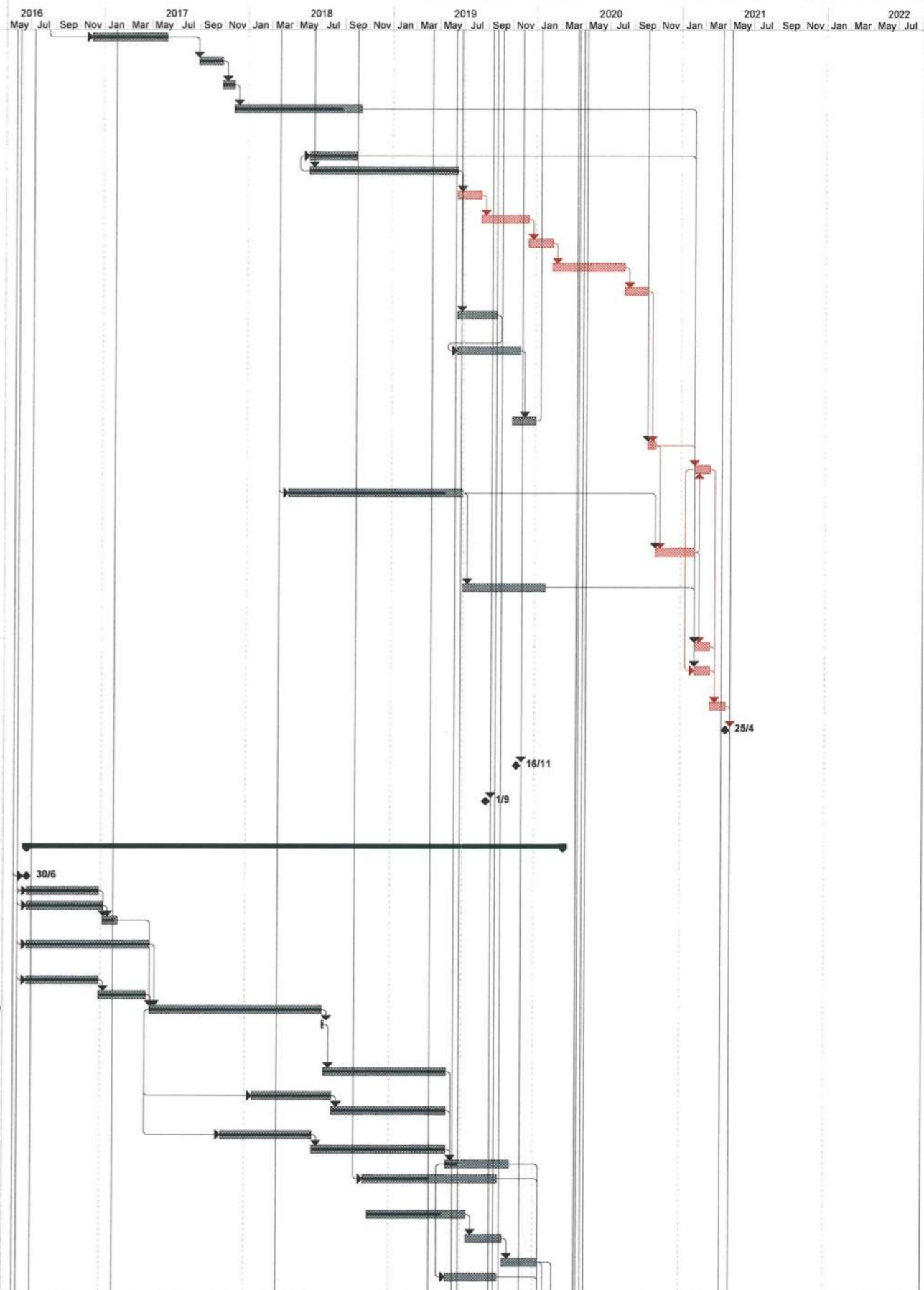
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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											
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		[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		[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		[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		[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]											



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
378	224110	GROUND INVESTIGATION WORKS (6 NOS. BOREHOLE & TRIAL PITS)	190 days	4 days	Fri 2/12/16	Fri 9/6/17	Fri 2/12/16	Fri 9/6/17	369SS+95 days	100%	0 days	379FS+80 days
379	224120	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	60 days	2 days	Tue 29/8/17	Fri 27/10/17	Tue 29/8/17	Fri 27/10/17	378FS+80 days	100%	0 days	380
380	224130	INSTALLATION OF MONITORING MARKERS	30 days	2 days	Sat 28/10/17	Sun 26/11/17	Sat 28/10/17	Sun 26/11/17	379	100%	0 days	381
381	224140	RW 45A (73M) + DELAY DUE TO INCLEMENT WEATHER + CE-039 ROCKFILL ARRANGMENT BENEATH RW45A	320 days	10 days	Mon 27/11/17	Fri 12/10/18	Mon 27/11/17	NA	380	85%	846 days	398
382	224150	RW 45B - CSD and NCE 248	118 days	5 days	Tue 5/6/18	Sun 30/9/18	Tue 5/6/18	Sun 30/9/18	383SS	100%	0 days	398
383	224160	RW 49 + NCE No.164 Additional Rockfill and Revised Dimensions (BAY 5 TO 13)	376 days	5 days	Tue 5/6/18	Sat 15/6/19	Tue 5/6/18	Sat 15/6/19	373	100%	0 days	382SS,384,389
384	224161	RW 49 + NCE No.164 Additional Rockfill and Revised Dimensions (BAY 1 TO 4)	60 days		Sun 16/6/19	Wed 14/8/19	NA	NA	383	0%	0 days	385
385	224162	ADDITIONAL RETAINING WALL RW50 SKJV NCE No. 141 (BAY 1 TO BAY 4)	120 days	0 day	Thu 15/8/19	Thu 12/12/19	NA	NA	384	0%	0 days	386
386	224163	ADDITIONAL LENGTHENING OF RETAINING WALL RW49 SKJV NCE No. 141 (BAY 14 TO 15)	60 days		Fri 13/12/19	Mon 10/2/20	NA	NA	385	0%	0 days	387
387	224165	Additional utilities diversion near RW49 to RW50 to be diverted. (NCE NO. 160)	180 days		Tue 11/2/20	Sat 8/8/20	NA	NA	386	0%	0 days	388
388	224166	DRAINAGE, GULLIES AND ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY FOR RW49 & RW50	60 days	0 day	Sun 9/8/20	Wed 7/10/20	NA	NA	387	0%	0 days	392
389	224170	DW1 & DW1A + SKJV NCE No. 241 Revised Layout of RW DW1, DW1A & DW2 + NCE No. 243 Revised RW No. DW1	100 days	10 days	Sun 16/6/19	Mon 23/9/19	NA	NA	383	0%	190 days	390FS-100 days
390	224180	DW2 (92M) + SKJV NCE No. 241 Revised Layout of RW DW1, DW1A & DW2 + NCE No.308 Suspension of Construction of RW DW2 due to Leakage of WSD Chamber + SKJV EW No. 41 - Conflict between Existing WSD Mains and Cycle Track	160 days	10 days	Sun 16/6/19	Fri 22/11/19	NA	NA	389FS-100 days	0%	190 days	391FS-20 days
391	224190	DRAINAGE WORKS ALONG DW1, DW1A & DW2	60 days	14 days	Sun 3/11/19	Wed 1/1/20	NA	NA	390FS-20 days	0%	190 days	375
392	224191	TTA AND REALIGNMENT OF CASTLE PEAK ROAD NEAR RW49, RW50, DW1 & DW2	20 days		Thu 8/10/20	Tue 27/10/20	NA	NA	375,376,377,388	0%	0 days	393,395
393	224192	ROAD WORKS FOR REALIGNMENT CARRIAGEWAY FOR DW1 & DW2	40 days	0 day	Fri 5/2/21	Tue 16/3/21	NA	NA	392,395	0%	0 days	398SS,399
394	224193	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	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	375 days	395,396
395	224194	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Wed 28/10/20	Thu 4/2/21	NA	NA	394,392	0%	0 days	397,393
396	224195	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	394	0%	375 days	397
397	224196	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Fri 5/2/21	Tue 16/3/21	NA	NA	396,395	0%	0 days	399
398	224220	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	40 days	3 days	Fri 5/2/21	Tue 16/3/21	NA	NA	381,382,393SS	0%	0 days	399
399	224221	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	2 days	Wed 17/3/21	Sun 25/4/21	NA	NA	398,397,393	0%	0 days	400
400	224230	PORTION H - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	399	0%	0 days	452
401	224240	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
402	224241	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
403	225000	PORTION I (SUBWAY D)	1353 days		Thu 30/6/16	Fri 13/3/20	Thu 30/6/16	NA		81%	893 days	
404	225010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	405SS
405	225020	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	404SS	100%	0 days	406SS,407
406	225030	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	Thu 30/6/16	Thu 5/1/17	405SS	100%	0 days	407
407	225040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	38 days	2 days	Fri 6/1/17	Sun 12/2/17	Fri 6/1/17	NA	406,405	79%	2018 days	411
408	225050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	310 days	14 days	Thu 30/6/16	Fri 5/5/17	Thu 30/6/16	Fri 5/5/17	237SS	100%	0 days	411
409	225060	TTM PREPARATION	180 days	4 days	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	2SS	100%	0 days	410
410	225070	TTM APPROVAL BY RSS/TMLG	121 days	4 days	Tue 27/12/16	Wed 26/4/17	Tue 27/12/16	Wed 26/4/17	409	100%	0 days	411
411	225080	SUBWAY D CONSTRUCTION, BAY 9 - 11	435 days	10 days	Sat 6/5/17	Sat 14/7/18	Sat 6/5/17	Sat 14/7/18	410,407,408	100%	0 days	412,414SS+260 days,416SS+180 day
412	225085	TTA FOR SUBWAY D CONSTRUCTION, BAY 7 TO 8 + SKJV NCE No.41 OBSTRUCTION OF REVISED RETAINED TREES IN PORTION I	5 days	0 day	Sun 15/7/18	Thu 19/7/18	Sun 15/7/18	Thu 19/7/18	411	100%	0 days	413
413	225086	SUBWAY D CONSTRUCTION, BAY 7 TO 8 & PUMP HOUSE	310 days	10 days	Fri 20/7/18	Sat 25/5/19	Fri 20/7/18	Sat 25/5/19	412	100%	0 days	418
414	225090	SUBWAY D CONSTRUCTION, BAY 15 TO 17	200 days	5 days	Sun 21/1/18	Wed 8/8/18	Sun 21/1/18	Wed 8/8/18	411SS+260 days	100%	0 days	415
415	225091	SUBWAY D CONSTRUCTION, BAY 12 TO 14	290 days	10 days	Thu 9/8/18	Sat 25/5/19	Thu 9/8/18	Sat 25/5/19	414	100%	0 days	418
416	225092	SUBWAY D CONSTRUCTION, BAY 4 TO 6	230 days	10 days	Thu 2/11/17	Tue 19/6/18	Thu 2/11/17	Tue 19/6/18	411SS+180 days	100%	0 days	417
417	225093	SUBWAY D CONSTRUCTION, BAY 1 TO 3	340 days	10 days	Wed 20/6/18	Sat 25/5/19	Wed 20/6/18	Sat 25/5/19	416	100%	0 days	418
418	225110	FINISHING WORKS AND E&M WORKS	160 days	6 days	Sun 26/5/19	Fri 1/11/19	NA	NA	417,415,413	20%	481 days	424,423SS
419	225111	SKJV NCE No. 181 - ADDITIONAL FLOODING WARNING SYSTEM FOR SUBWAYWAY A & D	342 days	0 day	Fri 26/10/18	Wed 2/10/19	Fri 26/10/18	NA	134SS	50%	511 days	424
420	225112	ROOFING - MATERIAL SUBMISSION AND APPROVAL	250 days	0 day	Thu 8/11/18	Mon 15/7/19	Thu 8/11/18	NA		76%	408 days	421
421	225113	ROOFING - ORDER, MANUFACTURING & DELIVER	92 days	0 day	Tue 16/7/19	Tue 15/10/19	NA	NA	420	0%	408 days	422
422	225114	ROOFING - INSTALLATION	90 days	0 day	Wed 16/10/19	Mon 13/1/20	NA	NA	421	0%	408 days	425,424
423	225120	EARTHWORKS AND DRAINAGE WORKS	130 days	3 days	Sun 26/5/19	Wed 2/10/19	NA	NA	418SS	0%	511 days	424



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											
424	225130	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	35 days	3 days	Tue 14/1/20	Mon 17/2/20	NA	NA	418,423,419,422	0%	408 days	425	[Gantt bar from May 2016 to Mar 2017]											
425	225131	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	1 day	Tue 18/2/20	Fri 13/3/20	NA	NA	424,422	0%	408 days	426	[Gantt bar from Mar 2017 to May 2017]											
426	225140	PORTION I - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 13/3/20	Fri 13/3/20	NA	NA	425	0%	408 days	452	[Milestone diamond at Mar 2017]											
427	225150	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		[Milestone diamond at Nov 2019]											
428	225151	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		[Milestone diamond at Sep 2019]											
429	226000	PORTION N (BRIDGE B)	1360 days		Thu 30/6/16	Fri 20/3/20	Thu 30/6/16	NA		75%	401 days		[Gantt bar from Jun 2016 to Mar 2020]											
430	226010	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	431SS	[Gantt bar from Jun 2016 to Jun 2016]											
431	226020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	430SS	100%	0 days	433,432	[Gantt bar from Jun 2016 to Aug 2016]											
432	226030	TREE SURVEY + 5 DAY DELAY (INCLEMENT WEATHER) IN AUG 2016	135 days	10 days	Mon 29/8/16	Tue 10/1/17	Mon 29/8/16	Tue 10/1/17	431	100%	0 days	433	[Gantt bar from Aug 2016 to Dec 2016]											
433	226040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	250 days	5 days	Fri 6/1/17	Tue 12/9/17	Fri 6/1/17	Tue 12/9/17	432,431	100%	0 days	437SS+55 days	[Gantt bar from Dec 2016 to Sep 2017]											
434	226050	UTILITIES DIVERSION WORKS (CLP & TOWN GAS)	420 days	10 days	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18		100%	0 days		[Gantt bar from Jan 2017 to Apr 2018]											
435	226080	CLP (LIAISON)	420 days	0 day	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18	437SS	100%	0 days	436SS	[Gantt bar from Jan 2017 to Apr 2018]											
436	226090	TOWN GAS	420 days	0 day	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18	435SS	100%	0 days		[Gantt bar from Jan 2017 to Apr 2018]											
437	226091	INSPECTION PITS TO IDENTIFY CLP CABLES & GAS MAINS	560 days	0 day	Thu 2/3/17	Wed 12/9/18	Thu 2/3/17	Wed 12/9/18	433SS+55 days	100%	0 days	435SS	[Gantt bar from Jan 2017 to Sep 2018]											
438	226101	COST SAVINGS DESIGN OF BRIDGE B & RW42 & APPROVAL	625 days	1 days	Sun 29/10/17	Mon 15/7/19	Sun 29/10/17	NA		90%	382 days	439	[Gantt bar from Oct 2017 to Jul 2019]											
439	226111	BRIDGE B CSD - SUBSTRUCTURE	77 days	4 days	Tue 16/7/19	Mon 30/9/19	NA	NA	438	0%	382 days	440	[Gantt bar from Jul 2019 to Sep 2019]											
440	226121	BRIDGE B CSD - SUPERSTRUCTURE	61 days	1 days	Tue 1/10/19	Sat 30/11/19	NA	NA	439	0%	382 days	442FS-140 days, 441FS-30 days	[Gantt bar from Oct 2019 to Nov 2019]											
441	226131	RW42 CSD - SITE FORMATION WORKS	81 days	5 days	Fri 1/11/19	Mon 20/1/20	NA	NA	440FS-30 days	0%	382 days	330SS, 447	[Gantt bar from Nov 2019 to Jan 2020]											
442	226180	EARTHWORKS AND DRAINAGE WORKS	200 days	2 days	Sun 14/7/19	Wed 29/1/20	NA	NA	440FS-140 days	0%	413 days	447	[Gantt bar from Jul 2019 to Jan 2020]											
443	226181	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%	401 days	444,445	[Gantt bar from Apr 2018 to Jun 2019]											
444	226182	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION F & N (ASSOCIATED CIVIL PROVISION WORKS) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	443	0%	511 days	446	[Gantt bar from Jul 2019 to Sep 2019]											
445	226183	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	443	0%	401 days	446	[Gantt bar from Jul 2019 to Jan 2020]											
446	226184	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	445,444	0%	401 days	448	[Gantt bar from Jan 2020 to Mar 2020]											
447	226190	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	25 days	2 days	Thu 30/1/20	Sun 23/2/20	NA	NA	442,441	0%	413 days	448	[Gantt bar from Jan 2020 to Feb 2020]											
448	226191	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	14 days	0 day	Sat 7/3/20	Fri 20/3/20	NA	NA	446,447	0%	401 days	449	[Gantt bar from Mar 2020 to Apr 2020]											
449	226210	PORTION N - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 20/3/20	Fri 20/3/20	NA	NA	448	0%	401 days	452	[Milestone diamond at Mar 2020]											
450	226220	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		[Milestone diamond at Nov 2019]											
451	226221	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		[Milestone diamond at Sep 2019]											
452	220030	W2 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT UP TO PROG DATE	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	344,364,400,426,310,449	0%	0 days	645,698,25	[Milestone diamond at Apr 2021]											
453		SECTION W3 (PORTION K & J1)	1376 days		Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		78%	870 days		[Gantt bar from Jun 2016 to Apr 2020]											
454	230010	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	456	[Gantt bar from Jun 2016 to Jun 2016]											
455	231000	PORTION K (CH KW 1+360 - CH KW 2+070)	1376 days		Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		77%	0 days		[Gantt bar from Jun 2016 to Apr 2020]											
456	231010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	454	100%	0 days	458SS, 457SS	[Gantt bar from Jun 2016 to Jun 2016]											
457	231020	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	456SS	100%	0 days		[Gantt bar from Jun 2016 to Dec 2016]											
458	231030	INITIAL SURVEY (+ 8 DAY DELAY IN AUG & SEP 16)	128 days	2 days	Thu 30/6/16	Fri 4/11/16	Thu 30/6/16	Fri 4/11/16	456SS	100%	0 days	460,459,463	[Gantt bar from Jun 2016 to Nov 2016]											
459	231040	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	Thu 28/7/16	Wed 24/8/16	458	100%	0 days	460	[Gantt bar from Jul 2016 to Aug 2016]											
460	231050	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	Thu 25/8/16	Tue 22/11/16	459,458	100%	0 days	466	[Gantt bar from Aug 2016 to Nov 2016]											
461	231060	UTILITIES DIVERSION WORKS (CLP)	60 days	0 day	Sat 26/8/17	Tue 24/10/17	Sat 26/8/17	Tue 24/10/17		100%	0 days		[Gantt bar from Aug 2017 to Oct 2017]											
462	231070	CLP	60 days	5 days	Sat 26/8/17	Tue 24/10/17	Sat 26/8/17	Tue 24/10/17	467SS+90 days	100%	0 days		[Gantt bar from Aug 2017 to Oct 2017]											
463	231100	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS + 12 DAYS DELAY IN AUG, SEP & OCT 16)	80 days	5 days	Sat 5/11/16	Mon 23/1/17	Sat 5/11/16	Mon 23/1/17	458	100%	0 days	466,464SS,465	[Gantt bar from Nov 2016 to Jan 2017]											
464	231110	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	Mon 12/9/16	Sun 2/10/16	463SS	100%	0 days	466	[Gantt bar from Sep 2016 to Oct 2016]											
465	231120	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 24/1/17	Mon 13/2/17	Tue 24/1/17	Mon 13/2/17	463	100%	0 days	466	[Gantt bar from Jan 2017 to Feb 2017]											
466	231130	RW 29C (66m) (+SKJV NCE No.89 - Additional Bay 0 to RW29C)	252 days	7 days	Tue 14/2/17	Mon 23/10/17	Tue 14/2/17	Mon 23/10/17	460,463,465,464	100%	0 days	467SS+103 days, 468SS+103 days, 470	[Gantt bar from Feb 2017 to Oct 2017]											
467	231140	RW 29B (50m)	195 days	7 days	Sun 28/5/17	Fri 8/12/17	Sun 28/5/17	Fri 8/12/17	468SS+103 days	100%	0 days	462SS+90 days, 470, 469	[Gantt bar from May 2017 to Dec 2017]											
468	231150	RW 29A (90m)	240 days	7 days	Sun 28/5/17	Mon 22/1/18	Sun 28/5/17	Mon 22/1/18	466SS+103 days	100%	0 days	469,471	[Gantt bar from May 2017 to Jan 2018]											
469	231160	RW 27 (90m) - CSD	30 days	7 days	Thu 22/2/18	Fri 23/3/18	Thu 22/2/18	Fri 23/3/18	470,467,468	100%	0 days		[Gantt bar from Feb 2018 to Mar 2018]											
470	231170	STREAM DECKING D9	75 days	7 days	Sat 9/12/17	Wed 21/2/18	Sat 9/12/17	Wed 21/2/18	467,466	100%	0 days	469	[Gantt bar from Dec 2017 to Feb 2018]											

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	2016 2017 2018 2019 2020 2021 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 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%	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 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	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	PORTION J1	1316 days		Sun 28/8/16	Sun 5/4/20	Sun 28/8/16	NA		99%	870 days		[Summary bar 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 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 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 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 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 at 5/4/20]											
486	230050	SECTION W4 PUBLIC TOILET	630 days		Thu 30/6/16	Wed 21/3/18	Thu 30/6/16	Wed 21/3/18		100%	0 days		[Summary bar 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 at 21/3/18]											
537	241480	W4 - COMPLETION DATE OF WORKS WITH CE / NCE EFFECT DUE TO INCLEMENT 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 at 21/3/18]											
538	250000	SECTION W5 (PORTION M)	1371 days		Thu 30/6/16	Tue 31/3/20	Thu 30/6/16	NA		77%	875 days		[Summary bar 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 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	PORTION M (BRIDGE E)	1371 days		Thu 30/6/16	Tue 31/3/20	Thu 30/6/16	NA		74%	0 days		[Summary bar 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 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 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 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 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 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	567	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]											



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																											
570	251270	PILE CAP & COLUMN AT GRID 1	320 days	3 days	Fri 16/3/18	Tue 29/1/19	Fri 16/3/18	Tue 29/1/19	569	100%	0 days	571	[Gantt bar for 570: Fri 16/3/18 to Tue 29/1/19]																											
571	251275	RAMP & RETAINING WALL AT GRID 1	115 days	2 days	Wed 30/1/19	Fri 24/5/19	Wed 30/1/19	Fri 24/5/19	570	100%	0 days		[Gantt bar for 571: Wed 30/1/19 to Fri 24/5/19]																											
572	251285	INSTALLATION OF MJ	70 days	0 day	Sat 25/5/19	Fri 2/8/19	NA	NA	555	0%	30 days	573	[Gantt bar for 572: Sat 25/5/19 to Fri 2/8/19]																											
573	251290	DRAINAGE & ROADWORKS AT GRID 1	60 days	4 days	Sat 3/8/19	Tue 1/10/19	Sat 3/8/19	NA	572	50%	137 days	592	[Gantt bar for 573: Sat 3/8/19 to Tue 1/10/19]																											
574	251300	STARTING DATE OF DRY SEASON	1 day	0 day	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	574	100%	0 days	575	[Gantt bar for 574: Thu 1/11/18 to Thu 1/11/18]																											
575	251305	TEMPORARY DRAINAGE WORKS	7 days	2 days	Thu 1/11/18	Wed 7/11/18	Thu 1/11/18	Wed 7/11/18	574	100%	0 days	587,577,586	[Gantt bar for 575: Thu 1/11/18 to Wed 7/11/18]																											
576	251310	PIER AT GRID 2	34 days	2 days	Mon 11/12/17	Sat 13/1/18	Mon 11/12/17	Sat 13/1/18	560	100%	0 days	577	[Gantt bar for 576: Mon 11/12/17 to Sat 13/1/18]																											
577	251315	BRIDGE DECK CONSTRUCTION	140 days	10 days	Thu 8/11/18	Wed 27/3/19	Thu 8/11/18	Wed 27/3/19	575,576	100%	0 days	578,583	[Gantt bar for 577: Thu 8/11/18 to Wed 27/3/19]																											
578	251320	REMOVAL OF TEMPORARY DRAINAGE WORK	4 days	2 days	Thu 28/3/19	Sun 31/3/19	Thu 28/3/19	Sun 31/3/19	577	100%	0 days	579,583,580	[Gantt bar for 578: Thu 28/3/19 to Sun 31/3/19]																											
579	251330	END DATE OF DRY SEASON	1 day	0 day	Sun 31/3/19	Sun 31/3/19	Sun 31/3/19	Sun 31/3/19	578	100%	0 days		[Gantt bar for 579: Sun 31/3/19 to Sun 31/3/19]																											
580	251331	INSTALLATION OF STEEL STRUCTURAL ROOF ON BRIDGE DECK	150 days	0 day	Mon 14/4/19	Wed 28/8/19	Mon 14/4/19	NA	578,582FS-100 days	70%	121 days	585	[Gantt bar for 580: Mon 14/4/19 to Wed 28/8/19]																											
581	251341	NCE ISSUES FOR INSTALLATION OF ROOFING TOP SKJV NCE No. 215 - ROOFING SYSTEM IF BRIDGE E & SKJV EW No.55 - ROOFING SYSTEM OF BRIDGE E	185 days	0 day	Wed 28/11/18	Fri 31/5/19	NA	NA		0%	0 days	582	[Gantt bar for 581: Wed 28/11/18 to Fri 31/5/19]																											
582	251342	SUBMISSION OF SHOP DRAWING AND APPROVAL	30 days		Sat 1/6/19	Sun 30/6/19	NA	NA	581	0%	0 days	583,580FS-100 days	[Gantt bar for 582: Sat 1/6/19 to Sun 30/6/19]																											
583	251343	ORDER & MANUFACTURING OF STEEL STRUCTURAL ROOF ON BRIDGE DECK AT GRID 1 & 3	120 days	5 days	Mon 1/7/19	Mon 28/10/19	NA	NA	581	0%	0 days	584	[Gantt bar for 583: Mon 1/7/19 to Mon 28/10/19]																											
584	251344	INSTALLATION OF STEEL STRUCTURAL ROOF ON BRIDGE DECK AT GRID 1 & 3	60 days		Tue 29/10/19	Fri 27/12/19	NA	NA	583	0%	0 days	585	[Gantt bar for 584: Tue 29/10/19 to Fri 27/12/19]																											
585	251360	RAILING, DRAINAGE & E&M WORKS	50 days	4 days	Sat 28/12/19	Sat 15/2/20	NA	NA	580,584	0%	0 days	592	[Gantt bar for 585: Sat 28/12/19 to Sat 15/2/20]																											
586	251361	ADDITION OF RETAINING WALL RW30A (SKJV NCE No. 98) + SKJV NCE No. 175 Delay of Watermain Diversion Works in RW30A, NCE No. 182 - Trimming of Existing Bend Block of Watermain & NCE No. 283 Diversion of Watermain in RW30A	289 days	0 day	Sat 1/12/18	Sun 15/9/19	Sat 1/12/18	NA	558SS+30 days,575	72%	153 days	592	[Gantt bar for 586: Sat 1/12/18 to Sun 15/9/19]																											
587	251362	ADDITION OF RETAINING WALL RW30B (SKJV NCE No. 98)	200 days	0 day	Thu 8/11/18	Sun 26/5/19	Thu 8/11/18	Sun 26/5/19	575	100%	0 days	592	[Gantt bar for 587: Thu 8/11/18 to Sun 26/5/19]																											
588	251363	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%	0 days	589,590	[Gantt bar for 588: Mon 16/4/18 to Sun 30/6/19]																											
589	251364	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	588	0%	110 days	591	[Gantt bar for 589: Mon 1/7/19 to Tue 8/10/19]																											
590	251365	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	588	0%	0 days	591	[Gantt bar for 590: Mon 1/7/19 to Sun 26/1/20]																											
591	251366	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	589,590	0%	0 days	593	[Gantt bar for 591: Mon 27/1/20 to Fri 6/3/20]																											
592	251370	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	20 days	4 days	Sun 16/2/20	Fri 6/3/20	NA	NA	573,587,586,585	0%	0 days	593	[Gantt bar for 592: Sun 16/2/20 to Fri 6/3/20]																											
593	251371	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Sat 7/3/20	Tue 31/3/20	NA	NA	592,591	0%	0 days	594	[Gantt bar for 593: Sat 7/3/20 to Tue 31/3/20]																											
594	251385	PORTION M - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	593	0%	0 days	596	[Gantt bar for 594: Tue 31/3/20 to Tue 31/3/20]																											
595	251390	W5 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 11/9/19	Wed 11/9/19	NA	NA	47	0%	1077 days		[Gantt bar for 595: Wed 11/9/19 to Wed 11/9/19]																											
596	251390	W5 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	594	0%	0 days	48,710,645	[Gantt bar for 596: Tue 31/3/20 to Tue 31/3/20]																											
597	260000	SECTION W6 (PORTION P)	716 days		Thu 30/6/16	Fri 15/6/18	Thu 30/6/16	Fri 15/6/18		100%	0 days		[Gantt bar for 597: Thu 30/6/16 to Fri 15/6/18]																											
609	270000	SECTION W7 (PORTION J1, J2 & J3)	1395 days		Thu 30/6/16	Fri 24/4/20	Thu 30/6/16	NA		73%	851 days		[Gantt bar for 609: Thu 30/6/16 to Fri 24/4/20]																											
610	270010	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	479FS+60 days,613FS+250 days,612	[Gantt bar for 610: Thu 30/6/16 to Thu 30/6/16]																											
611	271000	PORTION J2, J3	1145 days		Tue 7/3/17	Fri 24/4/20	Tue 7/3/17	NA		73%	0 days		[Gantt bar for 611: Tue 7/3/17 to Fri 24/4/20]																											
612	271010	INSTRUCTION TO EXECISE	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	610	100%	0 days	613SS,614SS	[Gantt bar for 612: Tue 7/3/17 to Tue 7/3/17]																											
613	271020	POSSESSION OF SITE (J2, J3)	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	612SS,610FS+250 days	100%	0 days	615FS+200 days,616SS,617SS	[Gantt bar for 613: Tue 7/3/17 to Tue 7/3/17]																											
614	271030	APPLICATION OF EXCAVATION PERMIT	200 days	0 day	Tue 7/3/17	Fri 22/9/17	Tue 7/3/17	Fri 22/9/17	612SS	100%	0 days	633	[Gantt bar for 614: Tue 7/3/17 to Fri 22/9/17]																											
615	271040	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORES HEIGHT TEMP. BLDG @ APPROX. CH. K0+900	30 days	2 days	Sat 23/9/17	Sun 22/10/17	Sat 23/9/17	Sun 22/10/17	613FS+200 days	100%	0 days	633	[Gantt bar for 615: Sat 23/9/17 to Sun 22/10/17]																											
616	271050	INITIAL SURVEY	190 days	2 days	Tue 7/3/17	Tue 12/9/17	Tue 7/3/17	Tue 12/9/17	613SS	100%	0 days	618	[Gantt bar for 616: Tue 7/3/17 to Tue 12/9/17]																											
617	271060	TREE SURVEY	90 days	2 days	Tue 7/3/17	Sun 4/6/17	Tue 7/3/17	Sun 4/6/17	613SS	100%	0 days	618	[Gantt bar for 617: Tue 7/3/17 to Sun 4/6/17]																											
618	271070	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	200 days	3 days	Mon 5/6/17	Thu 21/12/17	Mon 5/6/17	Thu 21/12/17	617	100%	0 days	620,623FS-50 days	[Gantt bar for 618: Mon 5/6/17 to Thu 21/12/17]																											
619	271072	UTILITIES DIVERSION WORKS (CLP, WSD)	90 days	3 day	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18		100%	0 days	621SS	[Gantt bar for 619: Fri 22/12/17 to Wed 21/3/18]																											
620	271074	CLP	90 days	3 days	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	618	100%	0 days	621SS	[Gantt bar for 620: Fri 22/12/17 to Wed 21/3/18]																											
621	271076	WSD	90 days	3 days	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	620SS	100%	0 days	622SS+80 days,634	[Gantt bar for 621: Fri 22/12/17 to Wed 21/3/18]																											
622	271080	RW 46 + SKJV NCE No. 190 - Amendment of Arrangement of Bay 0	560 days	7 days	Sun 21/1/18	Sat 3/8/19	Sun 21/1/18	NA	623SS+80 days	90%	30 days	628SS+215 days,624SS+250 days,634	[Gantt bar for 622: Sun 21/1/18 to Sat 3/8/19]																											
623	271090	RW 47 - CSD	640 days	0 day	Thu 2/11/17	Sat 3/8/19	Thu 2/11/17	NA	618FS-50 days	90%	30 days	622SS+80 days,634	[Gantt bar for 623: Thu 2/11/17 to Sat 3/8/19]																											
624	271100	RW 48 + SKJV NCE No. 192 - Revised Details of RW + NCE No.219 Existing 132kV Cables and Joint Box at Castle Peak Road in Conflict with Construction Works + NCE No. 226 Trial Pits Excavation & Torodial Cable Detection + NCE No. 384 Revised Details of RW	460 days	5 days	Fri 28/9/18	Tue 31/12/19	Fri 28/9/18	NA	622SS+250 days	90%	0 days	634FS-120 days	[Gantt bar for 624: Fri 28/9/18 to Tue 31/12/19]																											
625	271110	RW24A + SKJV NCE No. 146 - Revised Bay 1 & 2 and Additional Bay 3 to Bay 6 + NCE No. 171 - Reinforcement and Const. Details + NCE No. 177 - Bay 1 to 3 as Obstructed by Existing Utilities + NCE No. 202 - Additional Bay 1A + NCE No.278 Suspension in Const.	330 days	2 days	Mon 8/10/18	Mon 2/9/19	Mon 8/10/18	NA	628SS+15 days	80%	0 days	634	[Gantt bar for 625: Mon 8/10/18 to Mon 2/9/19]																											
626	271120	RW 24B	90 days	2 days	Thu 11/4/19	Tue 9/7/19	NA	NA		0%	0 days	627	[Gantt bar for 626: Thu 11/4/19 to Tue 9/7/19]																											
627	271130	RW 24C + SKJV NCE No. 307 - Additional Retaining Wall RW24C, Box Culvert D8A and Drainage System	124 days	7 days	Wed 10/7/19	Sun 10/11/19	Wed 10/7/19	NA	626	0%	0 days	634FS-69 days	[Gantt bar for 627: Wed 10/7/19 to Sun 10/11/19]																											
628	271140	RW 25 + SKJV NCE No. 147 - Revised Setting Out + NCE No. 194 - Backfilling using Filter Type A between SP and RW + NCE No.231 - Excavation of Trial Pits	280 days	7 days	Fri 24/8/18	Thu 30/5/19	Fri 24/8/18	Thu 30/5/19	622SS+215 days	100%	0 days	625SS+15 days,630SS,632SS+30 days,629	[Gantt bar for 628: Fri 24/8/18 to Thu 30/5/19]																											
629		RW24AA AND ADDITIONAL DRAINAGE ; NCE 389	215 days		Fri 31/5/19	Tue 31/12/19	NA	NA	628	0%	0 days	634FS-120 days	[Gantt bar for 629: Fri 31/5/19 to Tue 31/12/19]																											

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

Split: [Dotted bar] Project Summary: [Dotted bar] Inactive Task: [Light blue bar] Manual Task: [Light blue bar] Manual Summary: [Blue bar] Critical: [Red bar] Deadline: [Red bar]

Milestone: [Diamond] External Tasks: [Dotted bar] Inactive Milestone: [Light blue bar] Duration-only: [Light blue bar] Start-only: [Blue bar] Critical Split: [Red bar]

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Gantt Chart (2016-2022)																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
648	300020	SECTION W8A	60 days		Thu 4/7/19	Mon 2/9/19	NA	NA		0%	1087 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
651	300050	SECTION W8B	77 days		Fri 3/1/20	Fri 20/3/20	NA	NA		0%	887 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
654	300080	SECTION W8C	60 days		Fri 28/6/19	Tue 27/8/19	NA	NA		0%	1093 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
660	300140	SECTION W8E	0 days		Mon 14/10/19	Mon 14/10/19	NA	NA		0%	1045 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
666	300200	SECTION W8G	60 days		Tue 9/7/19	Sat 7/9/19	NA	NA		0%	1082 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
669	300230	SECTION W8A	60 days		Fri 3/7/20	Tue 1/9/20	NA	NA		0%	722 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							
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		[Gantt Chart Data]																							
672	300260	SECTION W8B	77 days		Mon 4/1/21	Mon 22/3/21	NA	NA		0%	520 days		[Gantt Chart Data]																							
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	[Gantt Chart Data]																							

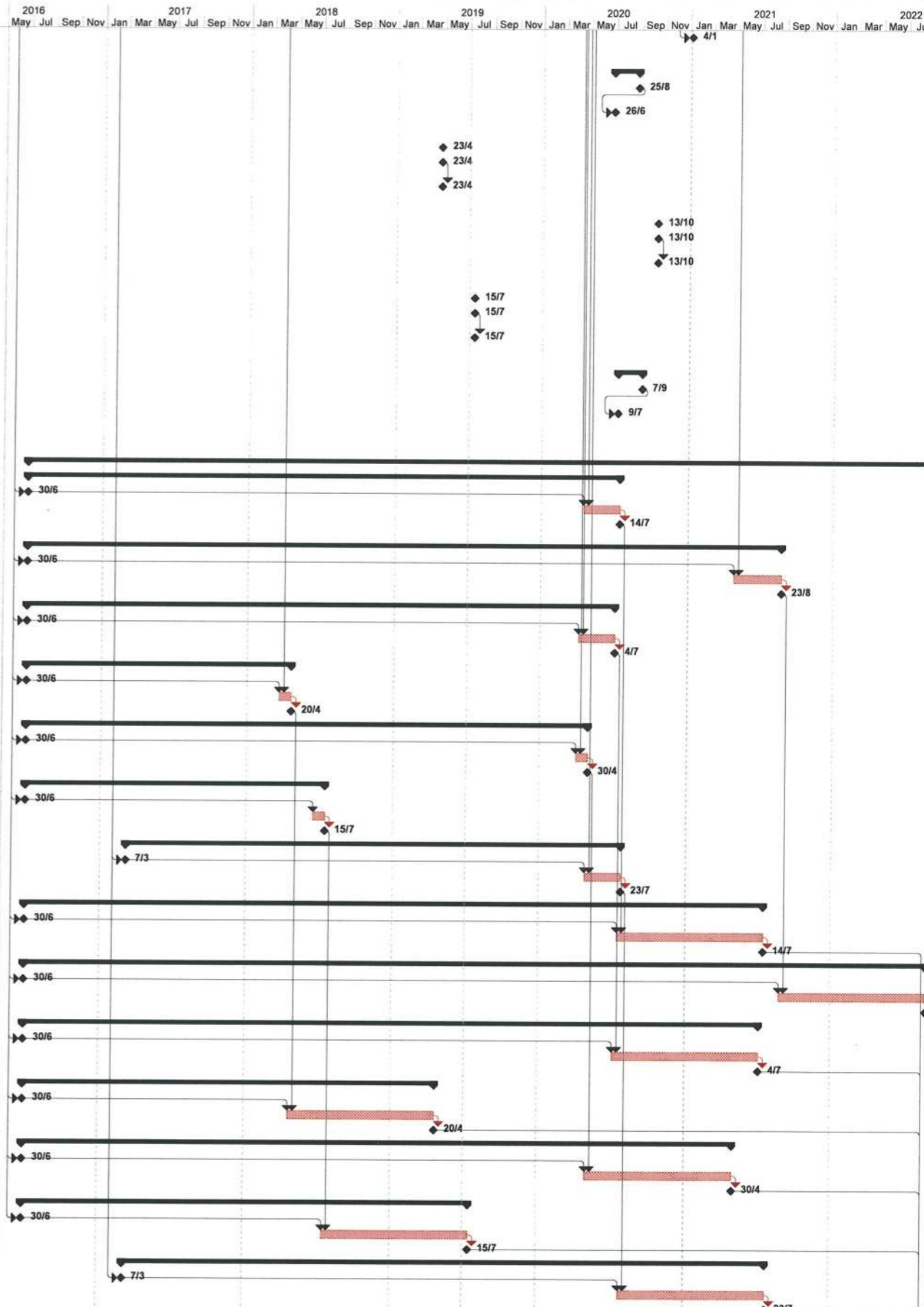
Task: [Solid Bar] Summary: [Dashed Bar] External Milestone: [Diamond] Inactive Summary: [Dotted Bar] Manual Summary Rollup: [Blue Bar] Finish-only: [Red Bar] Progress: [Green Bar]

Split: [Dotted Bar] Project Summary: [Dotted Bar] Inactive Task: [Dotted Bar] Manual Task: [Blue Bar] Manual Summary: [Blue Bar] Critical: [Red Bar] Deadline: [Red Bar]

Milestone: [Diamond] External Tasks: [Dotted Bar] Inactive Milestone: [Dotted Bar] Duration-only: [Blue Bar] Start-only: [Blue Bar] Critical Split: [Red Bar]

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



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

**APPENDIX B
MONITORING REQUIREMENTS**

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

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

Appendix C - Action and Limit Levels

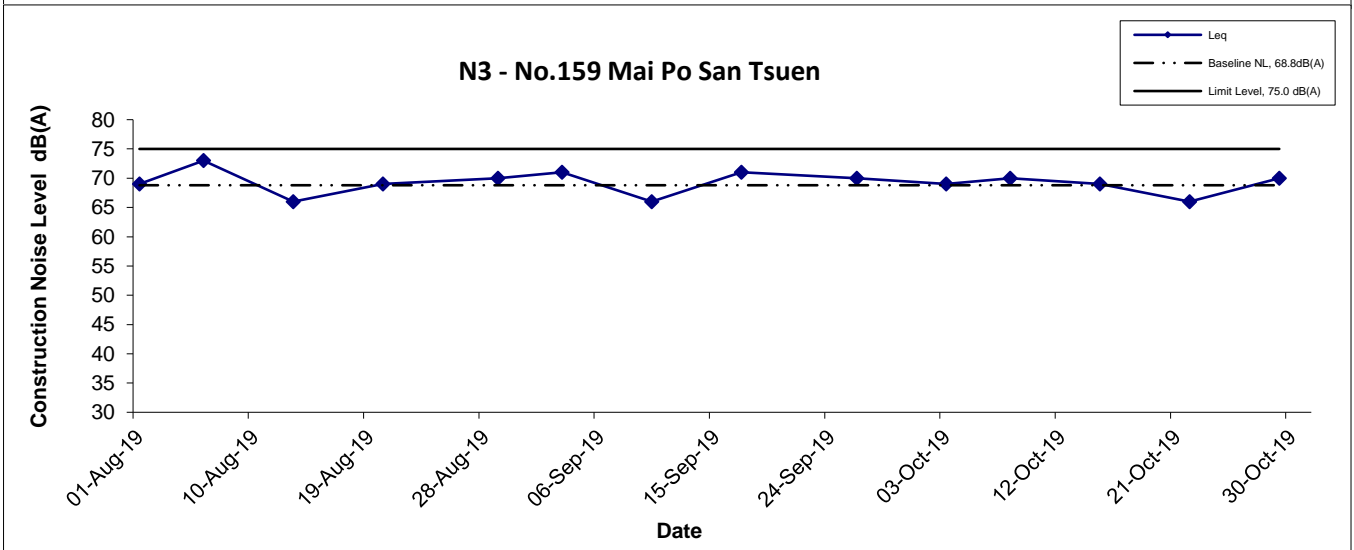
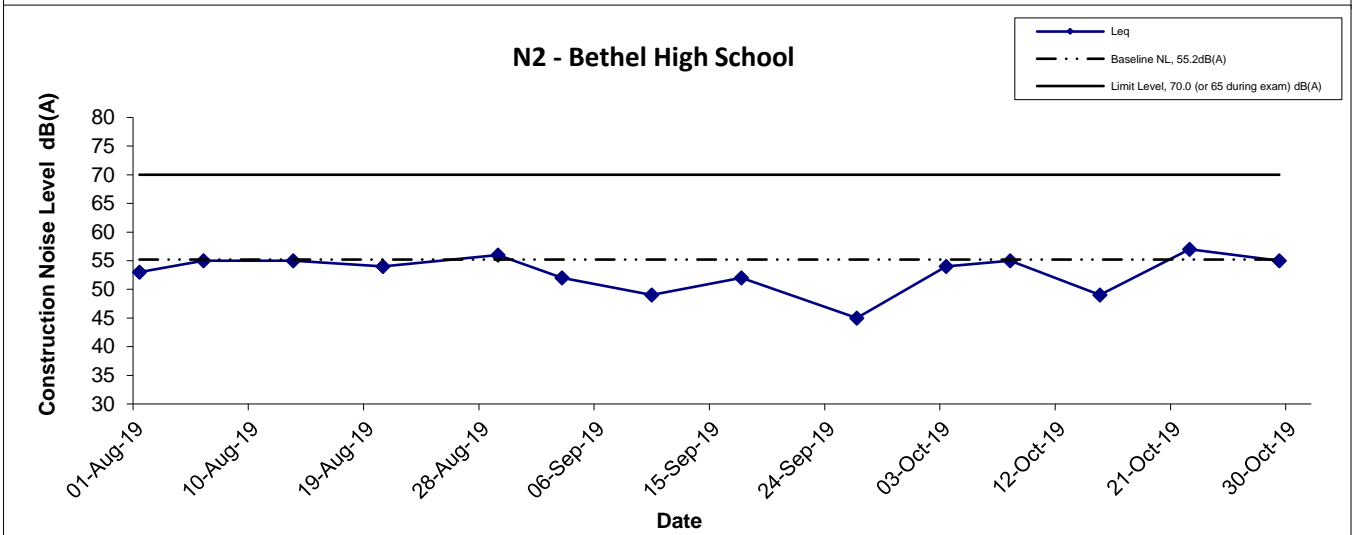
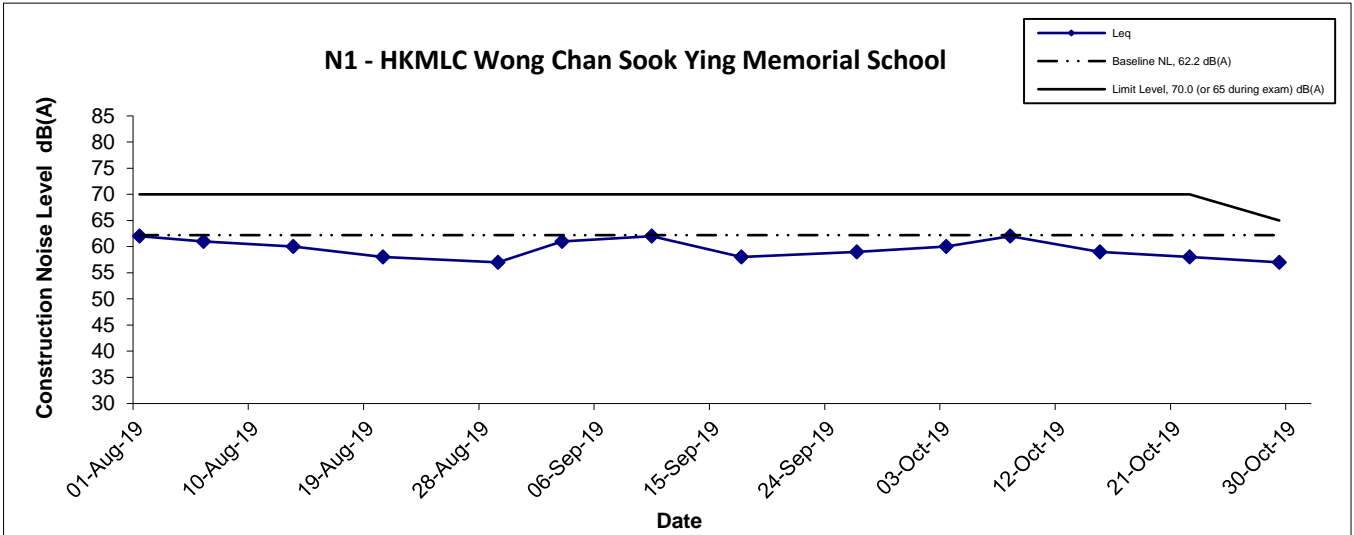
Table B-1 Action and Limit Levels for Construction Noise

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.

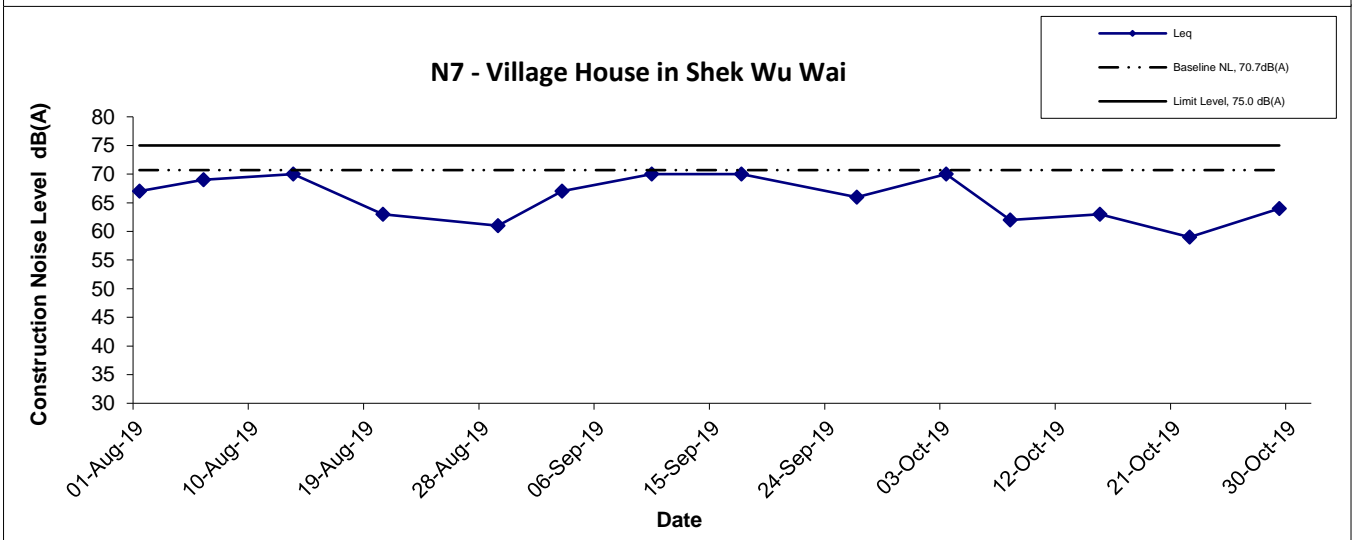
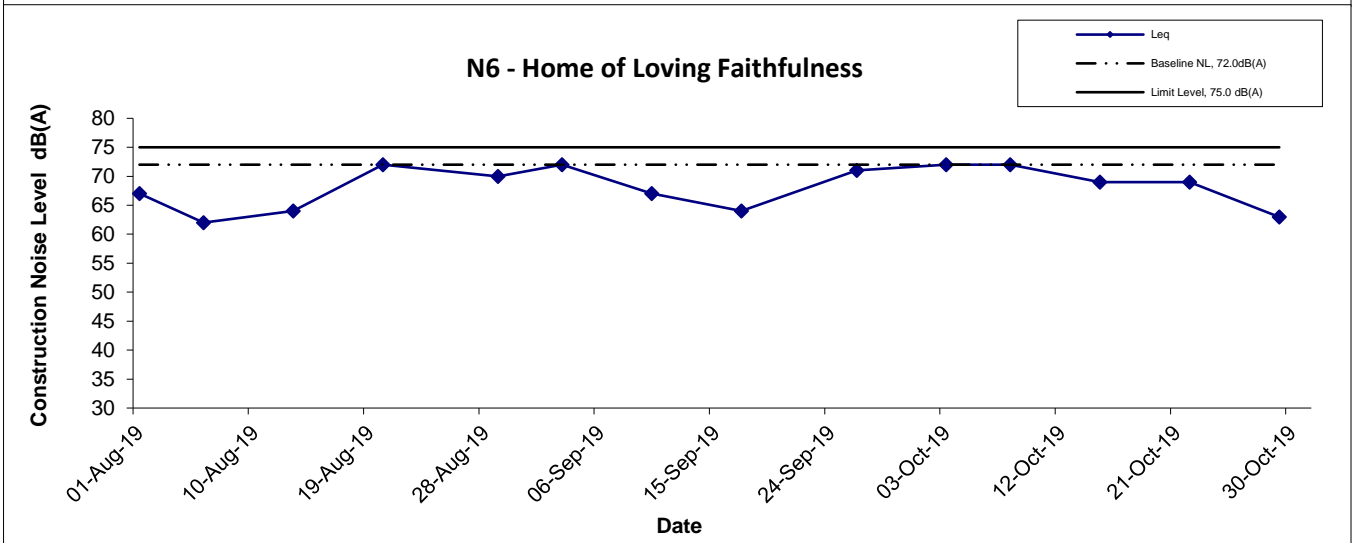
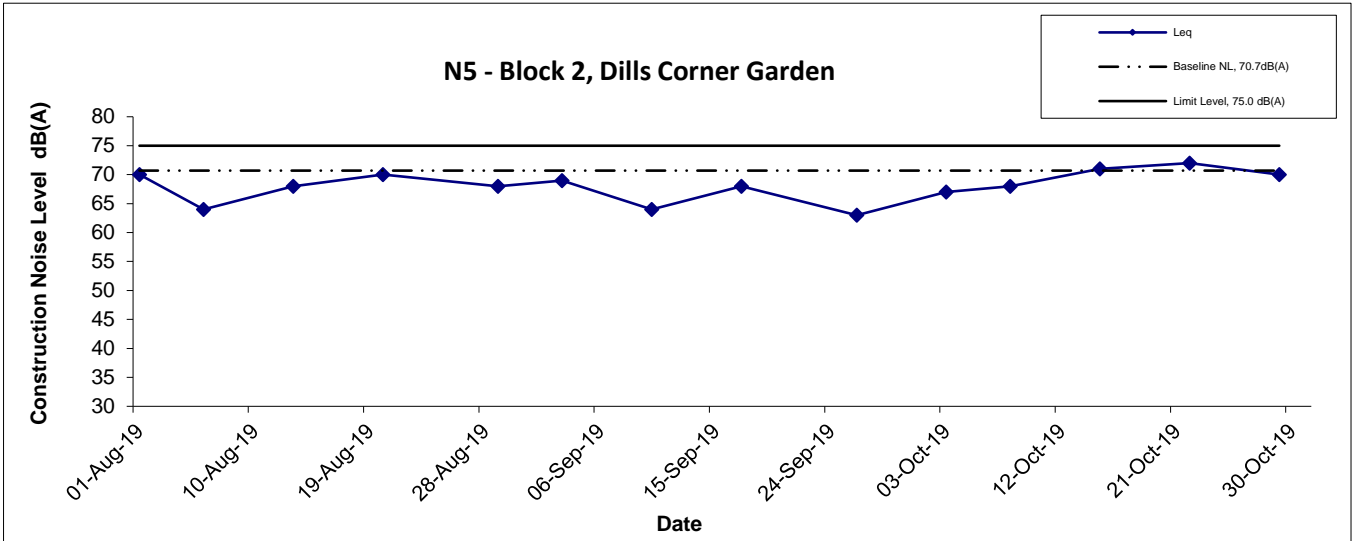
**APPENDIX D
NOISE MONITORING RESULTS AND
GRAPHICAL PRESENTATIONS**

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	N.T.S	No. MA16036	
	Date	Appendix	
	Oct 19	E	

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	Date	No.	
	N.T.S	MA16036	
	Oct 19	E	

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Air Quality			
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	^
S.3.6.2	S.3.2.3	● 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
Construction Noise Impact			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CHMP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): - mini excavator - mobile crane - dump truck - hand-held electric circular saw - concrete lorry mixer - lorry - vibratory poker - asphalt paver - crane mounted auger - road roller - road ripper, excavator mounted	^

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"> - mini excavator - mobile crane - dump truck - hand-held electric circular saw - bar bender - vibrating hammer - generator - concrete lorry mixer - lorry - vibratory poker - asphalt paver - compactor - road roller - crane mounted auger - grout mixer - grout pump - drill - road ripper, excavator mounted 	<p>^</p>
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Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
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 ² .	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^
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.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Water Quality			
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	#
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	*
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	^
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.6.6.1	S.5.2.4	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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
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
Construction Waste Management			
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER’s approval. The WMP shall include monthly and yearly Waste Flow Tables (“WFT”) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation 	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance) 	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence 	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”. 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD; 	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works; 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling. 	^

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction. 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Land Contamination			
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"> ▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; ▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; ▪ Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; ▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants. 	N/A

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

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

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

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

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

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

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Cultural Heritage Impact			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape and Visual			
<i>Detailed Design Phase</i>			

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

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

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

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

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

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

APPENDIX F
SITE AUDIT SUMMARY

Appendix F Summary of Observation and Recommendation Made during Site Inspection
Summary of Observations and Recommendations Made during Site Inspections from August to October 2019

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	30 Apr – 31 Jul 2019	Stand water should be avoided at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 7 August 2019.
	8 May – 25 Sept 2019	Drainage system and water treatment facility should be well maintained at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 October 2019.
	12 Jun – 23 Aug 2019	Stand water should be avoided or pumped out by sedimentation tank at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 28 August 2019.
	31 July 2019	Stand water should be avoided or removed at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 7 August 2019.
	23 Aug 2019	Standing water should be pumped out through sedimentation tank at Subway A	The condition was observed to be improved/rectified by the contractor during the audit session on 28 August 2019.
	4 Sept – 3 Oct 2019	Ponding water should not be pumped out directly and let soak away, a sedimentation tank should be placed at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 9 October 2019.
	9, 17 Oct 2019	Groundwater should be pumped out through sediment tank at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 October 2019.
	17 Oct 2019	Standing water should be pumped out through sedimentation tank at Portion M	The condition was observed to be improved/rectified by the contractor during the audit session on 23 October 2019.
	30 Oct 2019	Groundwater should be pumped out discharged via sedimentation tank at Bridge B.	Follow up actions will be reported in the next quarter.

Parameters	Date	Observations and Recommendations	Follow-up
<i>Air Quality</i>	7, 15 Aug 2019	The haul road should be kept cleaned to avoid dust generation at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 August 2019.
	20 Sept 2019	The excavated dusty materials should be covered by impervious materials at Bridge B.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 September 2019.
	20, 25 Sept 2019	The stockpile of dusty materials should be covered at Bridge E.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 October 2019.
	25 Sept – 30 Oct 2019	Stockpile of dusty materials should be covered or kept wet at Bridge B.	Follow up actions will be reported in the next quarter.
	17 Oct 2019	Stockpile of dusty materials should be covered by impervious materials at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 23 October 2019.
	23, 30 Oct 2019	Stockpile of dusty materials should be covered or kept wet at Portion D.	Follow up actions will be reported in the next quarter.
	30 Oct 2019	The excavated of dusty materials or stockpile of dusty materials should be covered tarpaulin at Portion I.	Follow up actions will be reported in the next quarter.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste/ Chemical Management</i>	17 July – 23 Aug 2019	Accumulation of construction waste should be avoided and removed at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 28 August 2019.
	31 July 2019	Wooden waste should be removed at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 7 August 2019.
	7 - 28 Aug 2019	Drip trays should be provided for chemical containers at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 September 2019.
	28 Aug 2019	Drip trays should be provided with adequate capacity and chemical should be stored properly at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 September 2019.

Parameters	Date	Observations and Recommendations	Follow-up
	28 Aug 2019	Accumulation of general refuse should be avoided at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 4 September 2019..
	12, 20 Sept 2019	Drip trays should be provided to store chemical at Bridge B.	The condition was observed to be improved/rectified by the contractor during the audit session on 25 September 2019.
	20 Sept – 23 Oct 2019	Accumulation of general refuse should be avoided and removed at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 October 2019.
	25 Sept – 30 Oct 2019	Accumulation of construction waste and general refuse should be avoided and removed at Portion H.	Follow up actions will be reported in the next quarter.
	3, 9 Oct 2019	Water bottles should be removed at Subway A.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 October 2019.
	23 Oct 2019	General refuse should be removed at Portion B.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 October 2019.
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Permits/ Licenses</i>	N/A	There was no observation in the reporting period.	N/A

**APPENDIX G
MONTHLY SUMMARY WASTE FLOW
TABLE**

Sang Hing – Kuly Joint Venture
Environmental Management Plan for Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

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Monthly Summary Waste Flow Table for 2016 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
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

Sang Hing – Kuly Joint Venture
Environmental Management Plan for Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2017 (Year)

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

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

#Revised Figure

Sang Hing – Kuly Joint Venture
 Environmental Management Plan for Contract No. YL/2015/01
 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2018 (Year)

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

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

#Revised Figure

Sang Hing – Kuly Joint Venture
Environmental Management Plan for Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2019 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	1.13	-	-	-	1.08	-	0.05	0.05	0.05	-	0.05
Feb	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Mar	0.06	-	-	-	-	-	0.05	0.05	0.05	-	0.06
Apr	0.06	-	-	-	0.03	-	0.05	0.05	0.05	-	0.03
May	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
June	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
Sub-total	1.47	-	-	-	1.11	-	0.50	0.50	0.50	-	0.36
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
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Total	46.455	-	-	-	45.745	0.986	1.56	1.56	1.56	-	1.02

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

#Revised Figure

Sang Hing – Kuly Joint Venture
Environmental Management Plan for Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

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

*Remark: Figure to be revised if necessary

Notes:

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

APPENDIX H
SUMMARY OF EXCEEDANCES

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)**

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

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 (Aug 19), Leq (30min) dB(A)	Reporting Month (Sept 19), Leq (30min) dB(A)	Reporting Month (Oct 19), Leq (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 ⁽¹⁾	57.3 - 61.5	58.0 - 61.5	57.4 - 61.5
N2 – Bethel High School	57-64	64 ⁽¹⁾	52.9 - 55.8	45.0 - 52.1	49.3 - 57.5
N3 – No. 159 Mai Po San Tsuen	70-73	74 ⁽²⁾	66.2 - 72.6	66.5 - 70.9	65.6 - 70.1
N5 – Block 2, Dills Corner Garden	73-75	75 ⁽²⁾	64.3 - 70.5	63.1 - 68.7	66.5 - 71.6
N6 – Home of Loving Faithfulness	64-73	74 ⁽¹⁾	61.8 - 71.6	63.7 - 71.6	62.9 - 72
N7 – Village House in Shek Wu Wai	N/A ⁽³⁾	70 ⁽²⁾	60.5 - 70.3	65.7 - 70.2	59.2 - 70.1

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)