Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

REDEVELOPMENT OF FUNAN DIGITALIFE MALL AT 109 NORTH BRIDGE ROAD

For

HSBC INSTITUTIONAL TRUST SERVICES (SINGAPORE) LIMITED AS TRUSTEE OF CAPITALAND MALL TRUST

Copy No.	1

Prepared By: Tung Choi Mun

Authorised By: Goh Soon Huat

Date: 5 November 2019

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SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	6221-PQP File	5 November 2019

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	1 February 2016	1 to 11	33	+ 1 page (Section 4 – Overall Programme)
1	13 November 2017	1 to 11	33	+ 1 page (Section 4.1 – Overall Programme)
2	31 May 2019	1 to 11	33	+ 18 pages (Section 4.1 – Overall Programme) + 2 pages (Section 4.1 – UPL Programme)
3	5 November 2019	1 to 11	32	+ 18 pages (Section 4.1 – Overall Programme) + 2 pages (Section 4.1 – UPL Programme)

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Retail, Office and Service Residence

Statistics of Development	
Site Area, m²	11,600
Nett Floor Area, m²	56,000
Gross Floor Area, m²	81,000
Covered Carpark, m²	17,250
No. of Covered Carpark Lots	381
No. of Apartments/Houses	-
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	296
No. of Blocks / No. of Storeys	12-storey commercial development comprising: (i) 8 storeys Service Apartment (L5 to L12) (ii) 6 storeys office (L5 to L10) (iii) 5 storeys retail podium (L1 to L5) (iv) 4 basement retail & carparks (v) Underground link to Capitol & Adelphi
Green Mark Category	Gold Plus
No. of Phases	3 phases

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)										
Services	EI	ACVI	LEI	FFAI	PSI	SPFI				
Estimate	27.2	29.1	11.9	5.7	8.4	0.3				
Awarded	20.1	31.5	8.8	3.6	7.8	0.3				

Total Project Construction Cost (S$ x1M)			
	Demolition	Piling Works	Main Contract
Estimate		Included in Main Contract	400.0
Awarded		Included in Main Contract	375.00

Site Clearance shall include earth work, soil improvement, service diversion and termination.

2.3 Scope of Works

2.3.1 Scope of Consultancy Services

Conceptual/Schematic Design	✓
Detailed Design	✓
Tender Documentation	✓
Tender Evaluation	✓
Contract Supervision	✓
M&E Costing	✓
Submissions to Authority	

(✓*where applicable*)

2.3.2 Scope of M&E Services

ELECTRICAL	✓	AIR CONDITIONING	✓	SPRINKLER	✓	SANITARY	✓	SWIMMING POOL	✓
LIFT	✓	MECHANICAL VENTILATION	✓	FIRE ALARM	✓	COLD WATER	✓	STEAM BOILER	
ESCALATOR	✓	MECHANICAL SMOKE EXTRACT		HOSEREEL	✓	HOT WATER	✓	FUEL STORAGE	✓
PABX		COMPUTER A/C		WET RISER		TOWN GAS	✓		
SECURITY	✓	BST CARPARK EXH	✓	DRY RISER	✓	LPG GAS			
TELELIFT		HEATING				MEDICAL GAS			
DATA COMM.									
FLUSHFLOOR TRUNKING									

(✓*where applicable*)

2.3.3 Submission to Relevant Authorities by Others

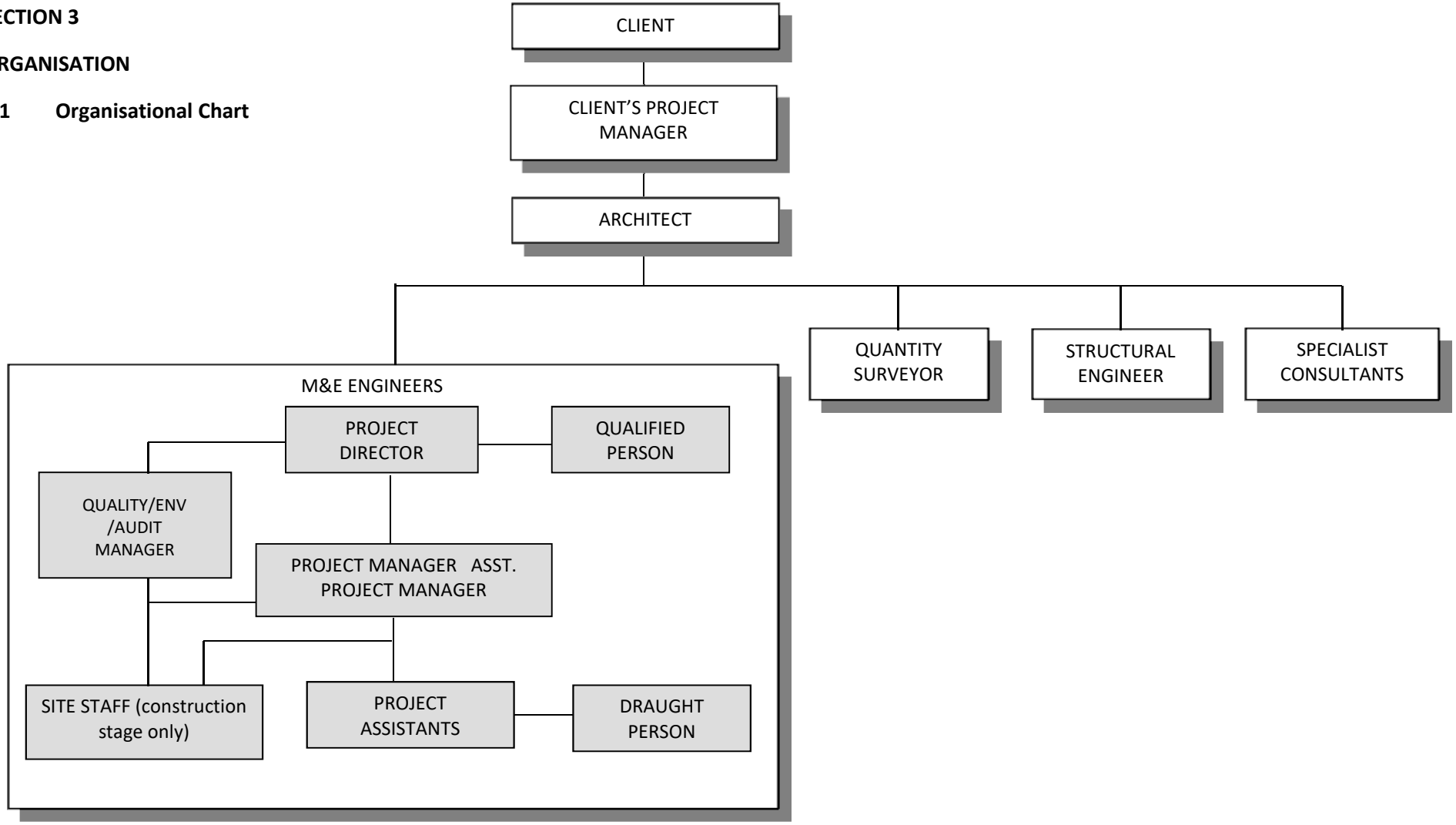
EJECTOR & DIVERTER	✓	SUMP PUMP		FUEL OIL TANK	✓	LIFT & ESCALATOR	✓	PRESSURE VESSEL		HOISTS		FOAM	

(✓*where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 ACEPL's Project Team Member

TITLE		NAME
Project Director		Goh Soon Huat (GSH)
Qualified Person	Mechanical	Chong Choon Guan (CCG)
	Electrical	Loh Fook Yuen (LFY)
Project Manager		Chuan Kian Heng (CKH)
Assistant Project Manager		-
Project Assistant (Mech)		Tung Choi Mun (CM)
Project Assistant (Elect)		Rukiah Suttan (RBS)
Draughtsperson		Common Pool
Resident Engineer (M&E)		-
Assistant Resident Engineer (M&E)		-
Resident Technical Officer (M&E)		Lim Chin Siong (LCS) Frederick Chong Mun Hoe (CMH)

3.3 Client/Client's Representatives

Client: HSBC Institutional Trust Services (Singapore) Ltd as Trustee of CapitaLand Mall Trust

Address: 168 Robinson Road #30-01 Capital Tower Singapore 068912

Tel:-

Fax:-

Client's Representatives:-

Name of Company	Contact Person	Contact
HSBC Institutional Trust Services (Singapore) Ltd as Trustee of CapitaLand Mall Trust	Name: Mr Augustine Ow Position: Development Manager	Tel: 6265 1286 Fax: - Handphone: 9185 5325 Email: augustine.ow@capitaland.com
HSBC Institutional Trust Services (Singapore) Ltd as Trustee of CapitaLand Mall Trust	Name: Ms Annie Yim Position: VP (Ascott)	Tel: 6500 3316 Fax: - Handphone: 9800 0840 Email: annie.yim@the-ascott.com
HSBC Institutional Trust Services (Singapore) Ltd as Trustee of CapitaLand Mall Trust	Name: Mr Htin Aung Position: Senior Executive (Ascott)	Tel: 6500 3315 Fax: - Handphone: 9295 7660 Email: htin.aung@the-ascott.com
HSBC Institutional Trust Services (Singapore) Ltd as Trustee of CapitaLand Mall Trust	Name: Mr Lai Soong Hai Position: Senior Manager	Tel: 6713 3848 Fax: - Handphone: 9649 1904 Email: lai.soonghai@capitaland.com

3.3 Client/Client's Representatives

Client's Project Managers:-

Name of Company	Contact Person	Contact
Capitamalls Asia Limited	Name: Mr Quah Boon Seong Position: Senior Manager	Tel: 6713 1501 Fax: - Handphone: 9099 5249 Email: Quah.boonseong@capitaland.com
Capitamalls Asia Limited	Name: Ms Celia Wong Position: Senior Executive	Tel: 6713 2614 Fax: - Handphone: 9221 1391 Email: celia.wong@capitaland.com
Capitamalls Asia Limited	Name: Mr Leon Lim Position: Manager	Tel: 6713 1334 Fax: - Handphone: 8181 1869 Email: leon.lim@capitaland.com
Capitamalls Asia Limited	Name: Ms Jacqueline Lim Position: Manager	Tel: 6713 1587 Fax: - Handphone: 9826 5858 Email: jacqueline.lim@capitaland.com

3.4 **Other Consultants** (Local)

Function / Name of Company	Contact Person	Contact
Architect RSP Architects Planners & Engineers (Pte) Ltd	Name: Mr Ng Meng Hui Position: Executive Director	Tel: 6378 5721 Fax: 6733 9143 Handphone: 9668 0157 Email: Ng_meng_hui@rsp.sg
Architect RSP Architects Planners & Engineers (Pte) Ltd	Name: Mr Sonny Chionh Position: Director	Tel: 6378 5758 Fax: 6733 9143 Handphone: 9747 3738 Email: sonny_chionh@rsp.sg
Architect RSP Architects Planners & Engineers (Pte) Ltd	Name: Ms Konnie Kao Position: Executive Architect	Tel: 6378 5792 Fax: 6733 9143 Handphone: 9675 0321 Email: konnie_kao@rsp.sg
Architect RSP Architects Planners & Engineers (Pte) Ltd	Name: Mr Loh Zhu Ping Position: Architect	Tel: 6731 4210 Fax: 6733 9143 Handphone: 9118 3476 Email: loh_zhu_ping@rsp.sg
Structural Engineer RSP Architects Planners & Engineers (Pte) Ltd	Name: Ms Eileen Yap Position: Senior Engineer	Tel: 6731 4252 Fax: 6733 9143 Handphone: 9644 3958 Email: eileen_yap@rsp.sg
Quantity Surveyor Arcadis - Design & Consultancy Pte Ltd	Name: Ms Guang Su Wei Position: Director	Tel: 6222 3888 Fax: - Handphone: 8138 6068 Email: guangsuwei@arcadis.sg
Quantity Surveyor Arcadis - Design & Consultancy Pte Ltd	Name: Ms Hong Mei Ling Position: Executive Senior Quantity Surveyor	Tel: 6239 8652 Fax: - Handphone: - Email: hong.mayling@arcadis.com
Quantity Surveyor Arcadis - Design & Consultancy Pte Ltd	Name: Ms Chatpichit, Sucheera Position: Quantity Surveyor	Tel: 6239 8604 Fax: - Handphone: 8158 8831 Email: chatpichit.sucheera@arcadis.com
Lighting Consultant Nipek Pte Ltd	Name: Mr Shigeki Fujii Position: Director	Tel: 6635 6213 Fax: - Handphone: 9488 6907 Email: fujii@nipek.jp

3.4 **Other Consultants** (Local)

Function / Name of Company	Contact Person	Contact
Facade Consultant HCCH Consulting Pte Ltd	Name: Mr Sani Chang Position: Managing Director	Tel: 6222 5451 Fax: - Handphone: 9681 8336 Email: sani@hcch.sg
Fire Engineer Ignesis Consultants Pte Ltd	Name: Mr Henry Ho Keen Peng Position: Managing Director	Tel: 6293 5431 Fax: - Handphone: 9685 9425 Email: henry@ignesisconsultants.com
Fire Engineer Ignesis Consultants Pte Ltd	Name: Mr Toh Yun Ying Position: Senior Executive Engineer	Tel: 6293 5431 Fax: - Handphone: 8612 9846 Email: yunying@ignesisconsultants.com
Traffic Consultant TCP Solutions Pte Ltd	Name: Mr Ali Kayam Position: Traffic Consultant	Tel: 6747 2321 Fax: - Handphone: 9667 0437 Email: ali.kayam@tcpsolutions.com.sg
Traffic Consultant TCP Solutions Pte Ltd	Name: Mr Kourosh Faezirazi Position: Principal Transport Planner	Tel: 6747 2321 Fax: - Handphone: 9784 8497 Email: kourosh.faezi@tcpsolutions.com.sg
Signage & Wayfinding consultant There Design Pte Ltd	Name: Mr Simon Hancock Position: Director	Tel: - Fax: - Handphone: 8328 7853 Email: simon@there.com.sg
Signage & Wayfinding consultant There Design Pte Ltd	Name: Mr Charlie Bromley Position: Head of Environments	Tel: (+612) 92801477 Fax: - Handphone: - Email: charlie@there.com.au
Green Mark Consultant Building System & Diagnostics Pte Ltd	Name: Mr Tan Phay Ping Position: Managing Director	Tel: 6560 0702 Fax: - Handphone: 9878 6876 Email: tanpp@bsd.com.sg
Green Mark Consultant Building System & Diagnostics Pte Ltd	Name: Mr Yong Ping Quen Position: Technical Director	Tel: 6560 0702 Fax: - Handphone: 9829 7399 Email: yongpq@bsd.com.sg
Green Mark Consultant Building System & Diagnostics Pte Ltd	Name: Mr Koy Beng Tuang Position: Principal Engineer	Tel: 6560 0702 Fax: - Handphone: 9829 7399 Email: koybt@bsd.com.sg

3.4 Other Consultants (Overseas)

Function / Name of Company	Contact Person	Contact
Retail Designer Woods Bagot	Name: Mr Stephen Jones Position: Director	Tel: (+852) 21557623 Fax: - Handphone: (+852) 90373725 Email: Stephen.Jones@woodsbagot.com
Retail Designer Woods Bagot	Name: Mr Katsuhiro Ozawa Position: Design Manager (POC)	Tel: (+852) 2155 7623 Fax: - Handphone: (+852) 91028669 Email: kat.ozawa@woodsbagot.com
Landscape Consultant Grant Associates	Name: Mr Tamasine Scott Position: Senior Associate	Tel: (+44) 1225332664 Fax: - Handphone: - Email: ts@grant-associates.uk.com
Landscape Consultant Grant Associates	Name: Mr Gabriel Caballero Position: Landscape Architect	Tel: 6221 3596 Fax: - Handphone: - Email: gc@Grant-Associates.uk.com

3.5 Contractors/Sub-Contractors

Function / Name of Company	Contract *	Contact Person	Contact
Main Contractor Woh Hup – Obayashi Joint Venture	DSC	Name: Mr Roy Chia Position: Project Director	Tel: 6385 8585 Fax: Handphone: 9030 0180 Email: roy_chia@wohhup.com
Air Conditioning & Ventilation Installation Sub-Contractor Guthrie Engineering (S) Pte Ltd	DSC	Name: Mr Su Yan Pei Position: Project Manager	Tel: 6746 2222 Fax: 6746 2300 Handphone: 9126 9158 Email: suyanpei@ea.guthrie.com.sg
Plumbing & Sanitary Installation Sub-Contractor Wang Kok Sewerage Construction Pte Ltd	DSC	Name: Mr Tang Chang Kit Position: Project Manager	Tel: 6280 7823 Fax: 6382 4371 Handphone: 9820 8277 Email: cktang@wangkok.com.sg
Electrical Installation Sub-Contractor LSK Engineering Pte Ltd	DSC	Name: Mr Edward See Position: Assistant Project Manger	Tel: 6553 3955 Fax: - Handphone: 9171 9984 Email: edward-see@lsk.com.sg
Lift & Escalator Installation Sub-Contractor Kone Pte Ltd	DSC	Name: Mr Jacky Cheng Position: Project Manager	Tel: 6424 6246 Fax: - Handphone: 8611 6177 Email: yajun.cheng@kone.com
Fire Fighting & Alarm Installation Sub-Contractor Sprinkler Engineering Pte Ltd	DSC	Name: Mr Tan Tiong Han Position: Project Manager	Tel: 6453 1488 Fax: 6453 7656 Handphone: 9780 0452 Email: sprinkler@singnet.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor Aquatech Products & Services Pte Ltd	DSC	Name: Mr Peter Liew Position: Project Manager	Tel: 6842 1188 Fax: 6842 0168 Handphone: 9105 7373 Email: -
_____		Name: Position:	Tel: Fax: Handphone: Email:
_____		Name: Position:	Tel: Fax: Handphone: Email:

** Type of Contract*
- *NSC (Nominated Sub-Contract)*
- *DSC (Domesticated Sub-Contract)*
- *DC (Direct Contract)*
- *NS (Nominated Supplier)*

3.6 Authorities

Authorities/Department	Contact Person	Tel/Fax Nos./E-mail
SP PowerGrid:		
(a) Sub-Station		
(b) Diversion	Mr Heng Kuan Koon	91476316 / kuankoon@singaporepower.com.sg
SP Services:		
(a) Customer Supply		
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
SP Telecommunication: (a) Diversion	Mr Muhammad Hafiz bin Sam Sudin	9856 3350 / muhdhafizsam@singaporepower.com.sg
TFCC:		
(a) SCV	Mr Wong Wei Biao	83325125 / wbwong@starhub.com
(b) SingTel (Diversion)	Mr Jamaluddin Bin Aziz	96531398 / jamal@singtel.com
(c) SingTel (MDF)	Mr Mohamed Ghani Bin Nagoor Mera	97353186 / ghani@singtel.com
(d) IDA	Mr Seih Koon Chye	62111751 /seih_koon_chye@ida.gov.sg
BCA:		
(a) Building Plan		
(b) Green Mark		
FSSD:		
(a) Building Plan		
(b) M&E Plan		
PUB (Water Supply) Network Dept:		
(a) Water Conservation		
(b) Plumbing Plan	Ms Norain Binte Dalail	67313762/ norain_dalail@pub.gov.sg
(c) Diversion	Mr Chen Xingxia	6885 2539 / 9834 4913 / CHEN_Xingxia@pub.gov.sg

3.6 Authorities (cont'd)

Authorities/Department	Contact Person	Tel/Fax Nos./E-mail
(d) NEWater	Mr Alan Tan J C	6731 3065 / 9845 7641/ Alan_Jc_TAN@pub.gov.sg
PUB Water Reclamation (Network) Dept:		
(a) Building Plan/CBPU		
(b) M&E Plan		
(c) Diversion		
City Gas Pte Ltd:		
(a) Planning/Submission	Mr Liew Khee Boon	6578 7603 / kheeboon@citygas.com.sg
(b) Installation/Inspection		
(c) Diversion	Mr Liew Khee Boon	6578 7603 / kheeboon@citygas.com.sg
PowerGas Pte Ltd		
(a) Diversion		
NEA (Pollution Control)		
(a) Planning/Submission		
(b) Inspection		

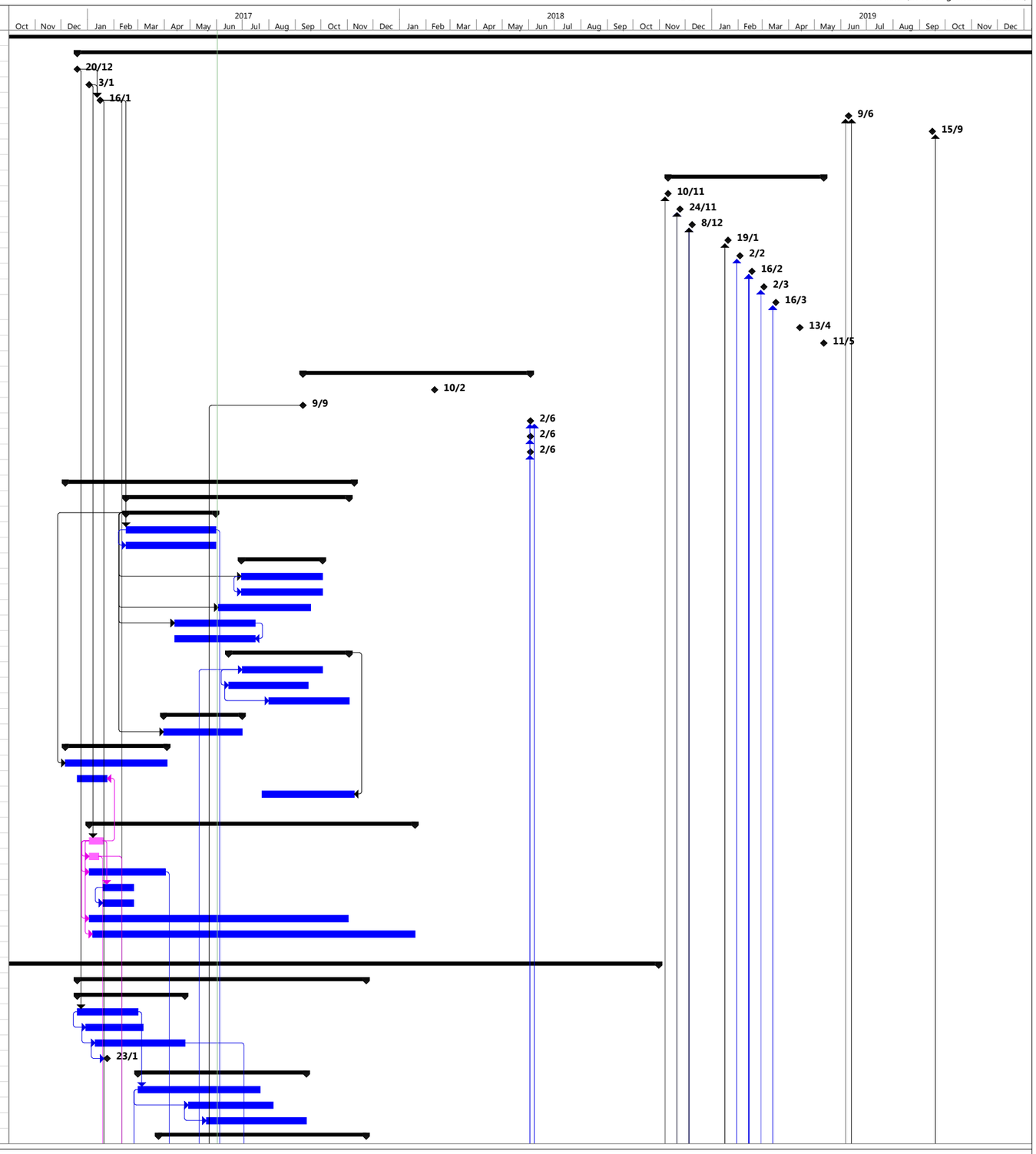
SECTION 4

PROGRAMME

4.1 Overall Programme (Refer to the attached program)

ID	TASK NAME	MONTHS	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1.	Preliminary Planning																									
2.	Planning Submission																									
3.	Detail Design																									
4.	BP Submission																									
5.	BP Submission (Amendments)																									
6.	Tender Period for Piling																									
7.	Tender Period for Sub-Structure																									
8.	Tender Period for Super-Structure																									
9.	Piling Period																									
10.	Sub-Structure Construction Period																									
11.	Super-Structure Construction Period																									
12.	TOP																									
13.	CSC																									

ID	Task Name	Duration	Start	Finish
1	**Funan Redevelopment**	**1403 days**	**1 Jun '16**	**10 Jan '21**
2	**1A. Key Dates**	**1234 days**	**20 Dec '16**	**10 Jan '21**
3	Letter of Award	0 days	20 Dec '16	20 Dec '16
4	Site Possession	0 days	3 Jan '17	3 Jan '17
5	Contract Commencement	0 days	16 Jan '17	16 Jan '17
6	Phase 1 Contract Completion (Retail/Shops/Office) - 125 weeks	0 days	9 Jun '19	9 Jun '19
7	Phase 2 Contract Completion (Serviced Residence) - 139 weeks	0 days	15 Sep '19	15 Sep '19
8	Phase 3 Contract Completion (UPN) - 208 weeks	0 days	10 Jan '21	10 Jan '21
9				
10	**1B. Critical Early Handover Dates**	**150 days**	**10 Nov '18**	**11 May '19**
11	Week 95 - Cinema (30 Weeks Prior to P1 Completion)	0 days	10 Nov '18	10 Nov '18
12	Week 97 - MDF Room, Tel Risers & Access (28 Weeks Prior to P1 Completion)	0 days	24 Nov '18	24 Nov '18
13	Week 99 - Threatre (26 Weeks Prior to P1 Completion)	0 days	8 Dec '18	8 Dec '18
14	Week 105 - Consumer HT Switchrm & LV Main Switchboard (20 Weeks Prior to P1 Completion)	0 days	19 Jan '19	19 Jan '19
15	Week 107 - Service Lifts (18 Weeks Prior to P1 Completion)	0 days	2 Feb '19	2 Feb '19
16	Week 109 - F&B/Retail/Restaurant Units > 1000m2, Office Units > 200m2, Food Court, Gym (16 Weeks Prior to P1 Completion)	0 days	16 Feb '19	16 Feb '19
17	Week 111 - Climb Central (14 Weeks Prior to P1 Completion)	0 days	2 Mar '19	2 Mar '19
18	Week 113 - F&B/Retail/Restaurant Units 301-1000m2, Office 101-200m2, Lifestyle Sports, IT Operator, Cooking Studio, Chiller Plant (12 Weeks Prior to P1 Completion)	0 days	16 Mar '19	16 Mar '19
19	Week 117 - F&B/Retail/Restaurant Units 101-300m2, Office Unit <100m2 (8 Weeks Prior to P1 Completion)	0 days	13 Apr '19	13 Apr '19
20	Week 121 - F&B/Retail/Restaurant Units </= 100m2 (4 Weeks Prior to P1 Completion)	0 days	11 May '19	11 May '19
21				
22	**1C. Required Mock-Ups Handover**	**220 days**	**9 Sep '17**	**2 Jun '18**
23	Week 56 - Façade (Retail/Office/Serviced Residence) Off-site Mock Up (69 Weeks Prior to P1 Completion)	0 days	10 Feb '18	10 Feb '18
24	Week 40 - Service Residence - Off-site Mock Up (105 Weeks Prior to P2 Completion)	0 days	9 Sep '17	9 Sep '17
25	Week 72 - Retail & Office Toilet On-Site Mock Up (53 Weeks Prior to P1 Completion)	0 days	2 Jun '18	2 Jun '18
26	Week 72 - Retail & Office Lift Lobbies On-Site Mock Up (53 Weeks Prior to P1 Completion)	0 days	2 Jun '18	2 Jun '18
27	Week 72 - Retail & Office Corridor On-Site Mock Up (53 Weeks Prior to P1 Completion)	0 days	2 Jun '18	2 Jun '18
28				
29	**1D. Provisional Sum Items Procurement (Refer to Contract Vol 5 of 7 - Section 2)**	**283 days**	**6 Dec '16**	**8 Nov '17**
30	**Architectural Items**	**218 days**	**15 Feb '17**	**2 Nov '17**
31	Design, Supply & Installation of Façade, Canopies and Skylight	87 days	15 Feb '17	30 May '17
32	Package 1 - Office Tower & Retail Podium Façade	87 days	15 Feb '17	30 May '17
33	Package 2 - Canopies & Skylight	87 days	15 Feb '17	30 May '17
34	Design, Supply & Installation of Signage Works	79 days	30 Jun '17	2 Oct '17
35	Package 1 - Digital Directory & Software	79 days	30 Jun '17	2 Oct '17
36	Package 2 - Signage Housing	79 days	30 Jun '17	2 Oct '17
37	Design, Supply and Installation of Kinetic Wall	90 days	3 Jun '17	18 Sep '17
38	Supply & Delivery of Tile Finishes	78 days	13 Apr '17	15 Jul '17
39	Supply & Delivery of Sanitary Wares, Fittings & Accessories (SWFA)	78 days	13 Apr '17	15 Jul '17
40	Supply & Delivery of Special Light Fittings, Architectural Light Fittings & Light Control System	118 days	15 Jun '17	2 Nov '17
41	Package 1 - Bulk Purchase Lightings	78 days	1 Jul '17	2 Oct '17
42	Package 2 - Architectural Special Lightings (6 mths procurement)	78 days	15 Jun '17	15 Sep '17
43	Package 3 - Projectors	78 days	1 Aug '17	2 Nov '17
44	**External Works Items**	**76 days**	**31 Mar '17**	**30 Jun '17**
45	Design, Supply & Install of Softscape Works	76 days	31 Mar '17	30 Jun '17
46	**Interior Items**	**101 days**	**6 Dec '16**	**3 Apr '17**
47	Interior Decorations, Fitting Out Works and FF&E to Service Residences Rooms and Front Of House	101 days	6 Dec '16	3 Apr '17
48	**Ground Instrumentation and Monitoring Works**	**30 days**	**20 Dec '16**	**23 Jan '17**
49	**Additional Provisions for Interior Design Enhancement Works & Smart Features**			
50				
51	**2A. Pre-Construction Works**	**318 days**	**3 Jan '17**	**18 Jan '18**
52	Site Mobilisation / Setting Up	14 days	3 Jan '17	18 Jan '17
53	Factory License Permit	10 days	3 Jan '17	13 Jan '17
54	Pre-Condition Survey	76 days	3 Jan '17	1 Apr '17
55	Pre-Computation Plan	30 days	19 Jan '17	23 Feb '17
56	Cable / Utilities Detection	30 days	19 Jan '17	23 Feb '17
57	Instrumentation / Monitoring	253 days	3 Jan '17	1 Nov '17
58	Earth Control Measures (ECM)	314 days	7 Jan '17	18 Jan '18
59				
60	**2B. Design, Submissions & Approvals (Dates are indicative. Details to refer to Progress Report)**	**735 days**	**1 Jun '16**	**30 Oct '18**
61	**Structural Design**	**283 days**	**20 Dec '16**	**22 Nov '17**
62	**CBP & Working Bored Piles**	**106 days**	**20 Dec '16**	**24 Apr '17**
63	Design	60 days	20 Dec '16	28 Feb '17
64	Appraisal & AC Checking	56 days	30 Dec '16	6 Mar '17
65	BCA Submission / Approval	88 days	10 Jan '17	24 Apr '17
66	Piling Permit Obtain	0 days	23 Jan '17	23 Jan '17
67	**Sub-Structure Design (B4 to L1)**	**164 days**	**1 Mar '17**	**13 Sep '17**
68	RC Design	120 days	1 Mar '17	21 Jul '17
69	Appraisal & AC Checking	83 days	29 Apr '17	5 Aug '17
70	BCA Submission / Approval	98 days	20 May '17	13 Sep '17
71	**Superstructure Design**	**202 days**	**25 Mar '17**	**22 Nov '17**

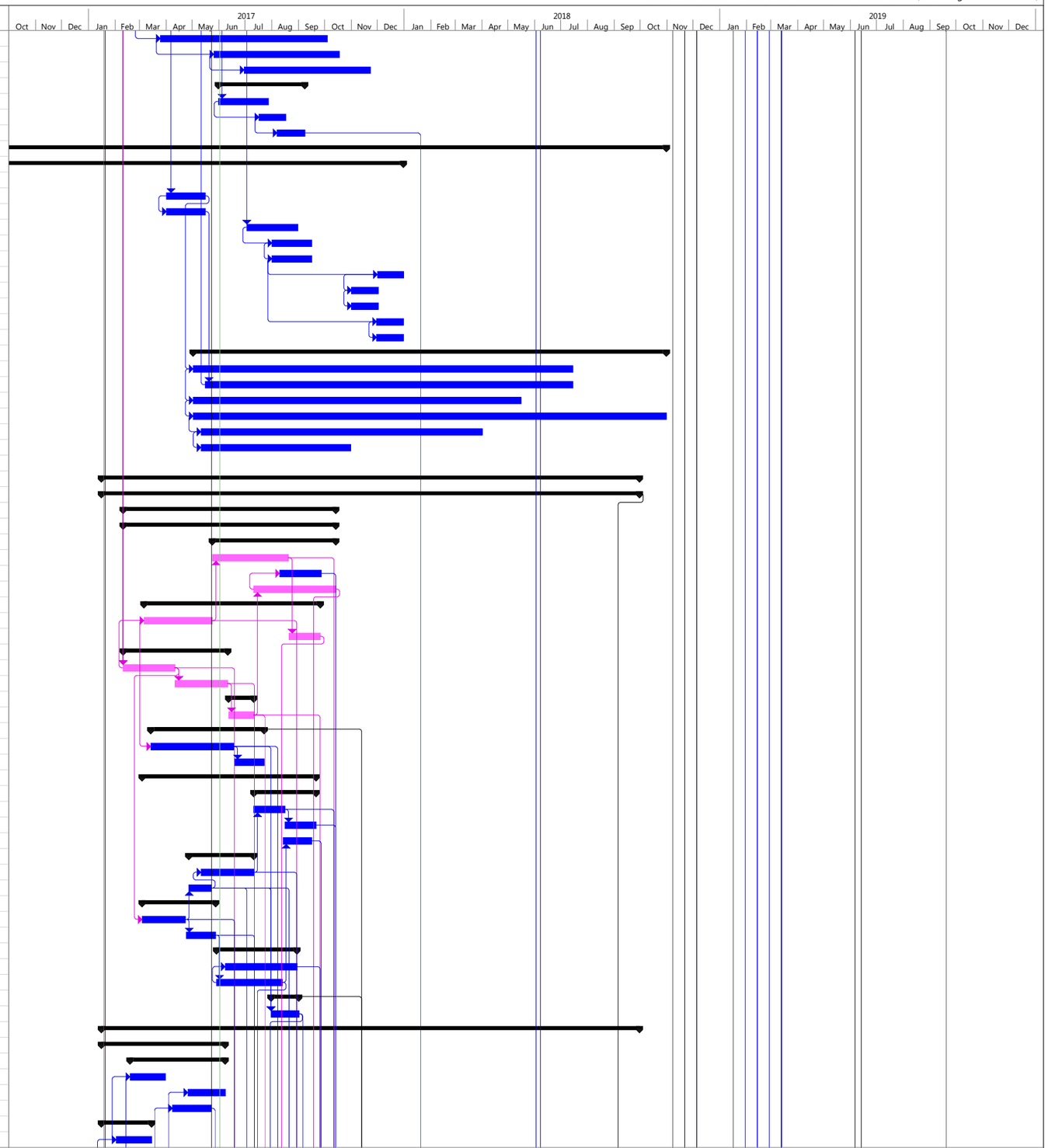


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
Critical Task — Milestone — Rolled Up Task — Rolled Up Milestone — Split — Project Summary — Deadline

Signed off: _____

Date: _____

ID	Task Name	Duration	Start	Finish
72	Design	160 days	25 Mar '17	3 Oct '17
73	Appraisal & AC Checking	122 days	26 May '17	17 Oct '17
74	BCA Submission / Approval	122 days	30 Jun '17	22 Nov '17
75	**Façade Works**	**84 days**	**31 May '17**	**7 Sep '17**
76	Design	50 days	31 May '17	27 Jul '17
77	Appraisal & AC Checking	26 days	17 Jul '17	16 Aug '17
78	BCA Submission / Approval	26 days	7 Aug '17	7 Sep '17
79	**M&E Design**	**735 days**	**1 Jun '16**	**30 Oct '18**
80	**M&E Authority Submission Drawings Submission & Approval**	**484 days**	**1 Jun '16**	**30 Dec '17**
81	Electrical Supply (SP Services) Already approved	0 days	1 Jun '16	1 Jun '16
82	Sub-station (SP PowerGrid)	35 days	1 Apr '17	15 May '17
83	MDF Room (TFCC)	35 days	1 Apr '17	15 May '17
84	Water Services (PUB Water)	50 days	3 Jul '17	30 Aug '17
85	Gas Installation (City Gas)	38 days	1 Aug '17	15 Sep '17
86	Sanitary Drainage (CBPU-NEA)	38 days	1 Aug '17	15 Sep '17
87	ACMV (FSSD)	25 days	1 Dec '17	30 Dec '17
88	Fire Protection (FSSD)	27 days	1 Nov '17	1 Dec '17
89	Emergency Voice Communication (FSSD)	27 days	1 Nov '17	1 Dec '17
90	Fuel Tanks (FSSD)	26 days	30 Nov '17	30 Dec '17
91	Ejector Pump (CBPU-NEA)	26 days	30 Nov '17	30 Dec '17
92	**M&E Shopdrawing Submission & Approval**	**455 days**	**2 May '17**	**30 Oct '18**
93	ACMV	365 days	2 May '17	14 Jul '18
94	Electrical & ELV	354 days	16 May '17	14 Jul '18
95	Sanitary, Plumbing, & Gas	315 days	2 May '17	15 May '18
96	Lift & Escalator	455 days	2 May '17	30 Oct '18
97	Fire Protection	271 days	11 May '17	31 Mar '18
98	Swimming Pool & Water Feature	145 days	11 May '17	30 Oct '17
99				
100	**3A. Structure Construction Works**	**517 days**	**16 Jan '17**	**29 Sep '18**
101	**Sub-structure Construction**	**517 days**	**16 Jan '17**	**29 Sep '18**
102	**CBP & FBP Works**	**206 days**	**10 Feb '17**	**13 Oct '17**
103	**CBP Installation**	**206 days**	**10 Feb '17**	**13 Oct '17**
104	**Serviced Residence Zone**	**121 days**	**24 May '17**	**13 Oct '17**
105	SR1	75 days	24 May '17	19 Aug '17
106	SR2	40 days	10 Aug '17	26 Sep '17
107	SR3	80 days	11 Jul '17	13 Oct '17
108	**North Tower Zone**	**170 days**	**6 Mar '17**	**25 Sep '17**
109	O1	65 days	6 Mar '17	23 May '17
110	O4	30 days	21 Aug '17	25 Sep '17
111	**South Tower**	**101 days**	**10 Feb '17**	**10 Jun '17**
112	O6	51 days	10 Feb '17	10 Apr '17
113	O3	50 days	11 Apr '17	10 Jun '17
114	**Central Zone**	**25 days**	**12 Jun '17**	**10 Jul '17**
115	O5	25 days	12 Jun '17	10 Jul '17
116	**Finger Zone**	**110 days**	**14 Mar '17**	**22 Jul '17**
117	F1 (Including JGP)	80 days	14 Mar '17	17 Jun '17
118	F2	30 days	19 Jun '17	22 Jul '17
119	**FBP Installation**	**167 days**	**4 Mar '17**	**20 Sep '17**
120	**Serviced Residence Zone**	**60 days**	**11 Jul '17**	**20 Sep '17**
121	SR1	30 days	11 Jul '17	15 Aug '17
122	SR2	30 days	16 Aug '17	20 Sep '17
123	SR3	28 days	14 Aug '17	15 Sep '17
124	**North Tower Zone**	62 days	27 Apr '17	10 Jul '17
125	O1	52 days	11 May '17	10 Jul '17
126	O4	20 days	27 Apr '17	22 May '17
127	**South Tower**	**70 days**	**4 Mar '17**	**27 May '17**
128	O6	42 days	4 Mar '17	22 Apr '17
129	O3	28 days	24 Apr '17	27 May '17
130	**Central Zone**	**79 days**	**29 May '17**	**29 Aug '17**
131	O2	70 days	8 Jun '17	29 Aug '17
132	O5	65 days	29 May '17	12 Aug '17
133	**Finger Zone**	**27 days**	**31 Jul '17**	**31 Aug '17**
134	F1	27 days	31 Jul '17	31 Aug '17
135	**Basement Works (B4 to L1)**	**517 days**	**16 Jan '17**	**29 Sep '18**
136	**Demolition of Existing Level 1 & Backfilling Works**	**119 days**	**16 Jan '17**	**7 Jun '17**
137	**Serviced Residence Zone**	**91 days**	**18 Feb '17**	**7 Jun '17**
138	SR1	35 days	18 Feb '17	30 Mar '17
139	SR2	35 days	26 Apr '17	7 Jun '17
140	SR3	35 days	8 Apr '17	22 May '17
141	**North Tower Zone**	**49 days**	**16 Jan '17**	**14 Mar '17**
142	O1	35 days	2 Feb '17	14 Mar '17

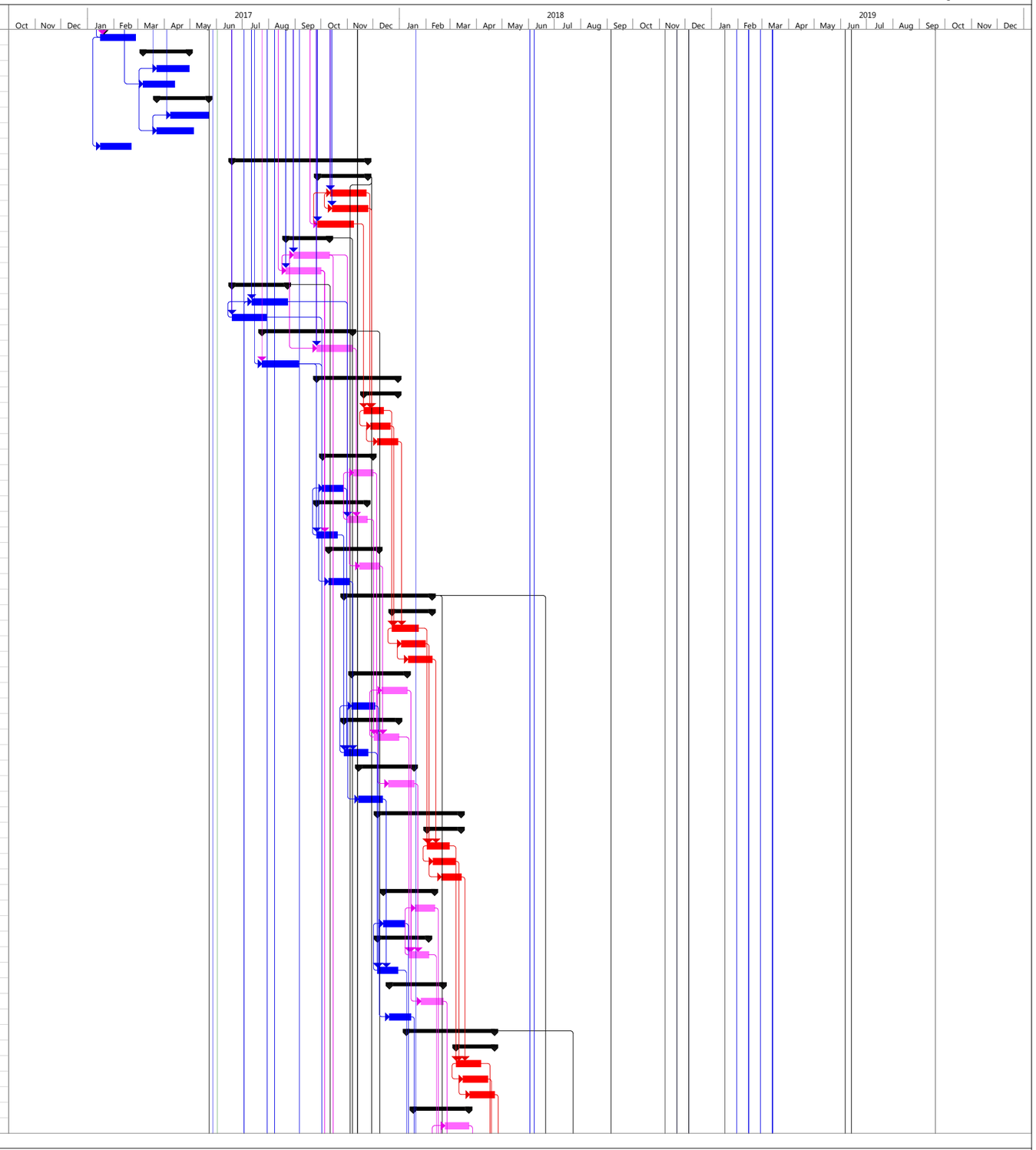


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
Critical Task — Milestone — Rolled Up Task — Rolled Up Milestone — Split — Project Summary — Deadline

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ID	Task Name	Duration	Start	Finish
143	O4	35 days	16 Jan '17	25 Feb '17
144	**South Tower**	**46 days**	**7 Mar '17**	**29 Apr '17**
145	O3	32 days	23 Mar '17	29 Apr '17
146	O6	32 days	7 Mar '17	12 Apr '17
147	**Central Zone**	**49 days**	**23 Mar '17**	**22 May '17**
148	O2	35 days	8 Apr '17	22 May '17
149	O5	35 days	23 Mar '17	4 May '17
150	**Finger Zone (L1 & B1)**	**30 days**	**16 Jan '17**	**20 Feb '17**
151	**L1 Construction**	**134 days**	**19 Jun '17**	**24 Nov '17**
152	**Serviced Residence Zone**	**50 days**	**27 Sep '17**	**24 Nov '17**
153	SR1	35 days	12 Oct '17	22 Nov '17
154	SR2	35 days	14 Oct '17	24 Nov '17
155	SR3	35 days	27 Sep '17	7 Nov '17
156	**North Tower Zone**	**43 days**	**21 Aug '17**	**10 Oct '17**
157	O1	35 days	30 Aug '17	10 Oct '17
158	O4	35 days	21 Aug '17	30 Sep '17
159	**South Tower**	**55 days**	**19 Jun '17**	**22 Aug '17**
160	O3	35 days	12 Jul '17	22 Aug '17
161	O6	35 days	19 Jun '17	28 Jul '17
162	**Central Zone**	**88 days**	**24 Jul '17**	**6 Nov '17**
163	O2	35 days	26 Sep '17	6 Nov '17
164	O5	35 days	24 Jul '17	4 Sep '17
165	**Demolition of Existing B1 and B2 & Excavation**	**80 days**	**26 Sep '17**	**29 Dec '17**
166	**Serviced Residence Zone**	**34 days**	**20 Nov '17**	**29 Dec '17**
167	SR1	20 days	20 Nov '17	12 Dec '17
168	SR2	20 days	28 Nov '17	20 Dec '17
169	SR3	20 days	6 Dec '17	29 Dec '17
170	**North Tower Zone**	**50 days**	**3 Oct '17**	**30 Nov '17**
171	O1	20 days	8 Nov '17	30 Nov '17
172	O4	20 days	3 Oct '17	26 Oct '17
173	**South Tower**	**50 days**	**26 Sep '17**	**23 Nov '17**
174	O3	20 days	1 Nov '17	23 Nov '17
175	O6	20 days	26 Sep '17	19 Oct '17
176	**Central Zone**	**50 days**	**10 Oct '17**	**7 Dec '17**
177	O2	20 days	15 Nov '17	7 Dec '17
178	O5	20 days	10 Oct '17	2 Nov '17
179	**New B1 Construction**	**86 days**	**28 Oct '17**	**7 Feb '18**
180	**Serviced Residence Zone**	**38 days**	**23 Dec '17**	**7 Feb '18**
181	SR1	24 days	23 Dec '17	22 Jan '18
182	SR2	24 days	3 Jan '18	30 Jan '18
183	SR3	24 days	11 Jan '18	7 Feb '18
184	**North Tower Zone**	**54 days**	**6 Nov '17**	**9 Jan '18**
185	O1	24 days	11 Dec '17	9 Jan '18
186	O4	24 days	6 Nov '17	2 Dec '17
187	**South Tower**	**54 days**	**28 Oct '17**	**30 Dec '17**
188	O3	24 days	2 Dec '17	30 Dec '17
189	O6	24 days	28 Oct '17	24 Nov '17
190	**Central Zone**	**54 days**	**14 Nov '17**	**17 Jan '18**
191	O2	24 days	19 Dec '17	17 Jan '18
192	O5	24 days	14 Nov '17	11 Dec '17
193	**Demolition of Existing B3 & Excavation to new B2 Level**	**80 days**	**6 Dec '17**	**13 Mar '18**
194	**Serviced Residence Zone**	**32 days**	**2 Feb '18**	**13 Mar '18**
195	SR1	20 days	2 Feb '18	27 Feb '18
196	SR2	20 days	9 Feb '18	6 Mar '18
197	SR3	20 days	19 Feb '18	13 Mar '18
198	**North Tower Zone**	**50 days**	**13 Dec '17**	**10 Feb '18**
199	O1	20 days	19 Jan '18	10 Feb '18
200	O4	20 days	13 Dec '17	6 Jan '18
201	**South Tower**	**50 days**	**6 Dec '17**	**3 Feb '18**
202	O3	20 days	12 Jan '18	3 Feb '18
203	O6	20 days	6 Dec '17	29 Dec '17
204	**Central Zone**	**50 days**	**20 Dec '17**	**20 Feb '18**
205	O2	20 days	26 Jan '18	20 Feb '18
206	O5	20 days	20 Dec '17	13 Jan '18
207	**New B2 Construction**	**86 days**	**9 Jan '18**	**21 Apr '18**
208	**Serviced Residence Zone**	**38 days**	**8 Mar '18**	**21 Apr '18**
209	SR1	24 days	8 Mar '18	5 Apr '18
210	SR2	24 days	16 Mar '18	13 Apr '18
211	SR3	24 days	24 Mar '18	21 Apr '18
212	**North Tower Zone**	**54 days**	**17 Jan '18**	**22 Mar '18**
213	O1	24 days	23 Feb '18	22 Mar '18

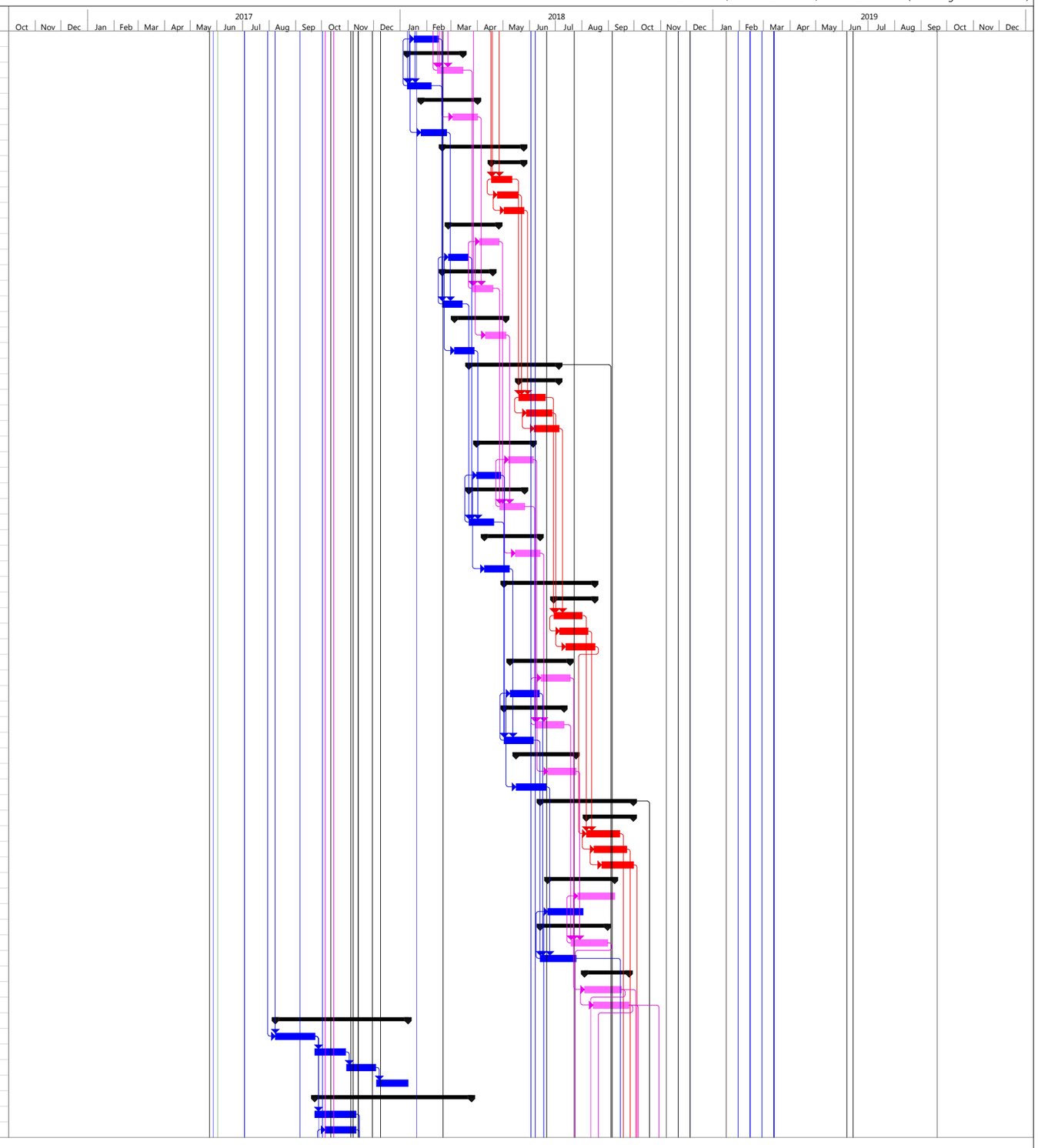


Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
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ID	Task Name	Duration	Start	Finish
214	O4	24 days	17 Jan '18	13 Feb '18
215	**South Tower**	**54 days**	**9 Jan '18**	**14 Mar '18**
216	O3	24 days	13 Feb '18	14 Mar '18
217	O6	24 days	9 Jan '18	5 Feb '18
218	**Central Zone**	**54 days**	**25 Jan '18**	**31 Mar '18**
219	O2	24 days	3 Mar '18	31 Mar '18
220	O5	24 days	25 Jan '18	23 Feb '18
221	**Excavation to New B3 Level**	**80 days**	**19 Feb '18**	**24 May '18**
222	**Serviced Residence Zone**	**32 days**	**17 Apr '18**	**24 May '18**
223	SR1	20 days	17 Apr '18	10 May '18
224	SR2	20 days	24 Apr '18	17 May '18
225	SR3	20 days	2 May '18	24 May '18
226	**North Tower Zone**	**50 days**	**26 Feb '18**	**25 Apr '18**
227	O1	20 days	3 Apr '18	25 Apr '18
228	O4	20 days	26 Feb '18	20 Mar '18
229	**South Tower**	**50 days**	**19 Feb '18**	**18 Apr '18**
230	O3	20 days	26 Mar '18	18 Apr '18
231	O6	20 days	19 Feb '18	13 Mar '18
232	**Central Zone**	**50 days**	**5 Mar '18**	**3 May '18**
233	O2	20 days	10 Apr '18	3 May '18
234	O5	20 days	5 Mar '18	27 Mar '18
235	**New B3 Construction**	**86 days**	**22 Mar '18**	**4 Jul '18**
236	**Serviced Residence Zone**	**38 days**	**19 May '18**	**4 Jul '18**
237	SR1	24 days	19 May '18	18 Jun '18
238	SR2	24 days	28 May '18	26 Jun '18
239	SR3	24 days	6 Jun '18	4 Jul '18
240	**North Tower Zone**	**54 days**	**31 Mar '18**	**4 Jun '18**
241	O1	24 days	7 May '18	4 Jun '18
242	O4	24 days	31 Mar '18	27 Apr '18
243	**South Tower**	**54 days**	**22 Mar '18**	**25 May '18**
244	O3	24 days	27 Apr '18	25 May '18
245	O6	24 days	22 Mar '18	19 Apr '18
246	**Central Zone**	**54 days**	**9 Apr '18**	**12 Jun '18**
247	O2	24 days	15 May '18	12 Jun '18
248	O5	24 days	9 Apr '18	7 May '18
249	**Excavation to new B4 Level**	**88 days**	**2 May '18**	**15 Aug '18**
250	**Serviced Residence Zone**	**40 days**	**29 Jun '18**	**15 Aug '18**
251	SR1	28 days	29 Jun '18	31 Jul '18
252	SR2	28 days	6 Jul '18	7 Aug '18
253	SR3	28 days	13 Jul '18	15 Aug '18
254	**North Tower Zone**	**58 days**	**9 May '18**	**17 Jul '18**
255	O1	28 days	14 Jun '18	17 Jul '18
256	O4	28 days	9 May '18	11 Jun '18
257	**South Tower**	**58 days**	**2 May '18**	**10 Jul '18**
258	O3	28 days	7 Jun '18	10 Jul '18
259	O6	28 days	2 May '18	4 Jun '18
260	**Central Zone**	**58 days**	**16 May '18**	**24 Jul '18**
261	O2	28 days	22 Jun '18	24 Jul '18
262	O5	28 days	16 May '18	19 Jun '18
263	**New B4 Construction**	**91 days**	**13 Jun '18**	**29 Sep '18**
264	**Serviced Residence Zone**	**46 days**	**6 Aug '18**	**29 Sep '18**
265	SR1	32 days	6 Aug '18	13 Sep '18
266	SR2	32 days	15 Aug '18	21 Sep '18
267	SR3	32 days	24 Aug '18	29 Sep '18
268	**North Tower Zone**	**65 days**	**22 Jun '18**	**7 Sep '18**
269	O1	35 days	27 Jul '18	7 Sep '18
270	O4	35 days	22 Jun '18	1 Aug '18
271	**South Tower**	**65 days**	**13 Jun '18**	**30 Aug '18**
272	O3	35 days	19 Jul '18	30 Aug '18
273	O6	35 days	13 Jun '18	24 Jul '18
274	**Central Zone**	**42 days**	**4 Aug '18**	**24 Sep '18**
275	O2	35 days	4 Aug '18	15 Sep '18
276	O5	35 days	14 Aug '18	24 Sep '18
277	**Zone F1 Construction**	**128 days**	**8 Aug '17**	**9 Jan '18**
278	L1 Construction	38 days	8 Aug '17	22 Sep '17
279	New B1 Construction	30 days	23 Sep '17	28 Oct '17
280	Demolition of Existing B3 & Excavation to new B2 Level	30 days	30 Oct '17	2 Dec '17
281	New B2 Construction	30 days	4 Dec '17	9 Jan '18
282	**Zone F2 Construction**	**152 days**	**23 Sep '17**	**24 Mar '18**
283	Diversion back of Utility Services & Construction of Plot 6 Service Road	40 days	23 Sep '17	9 Nov '17
284	Service Road Closure - Application & Approval	30 days	5 Oct '17	9 Nov '17

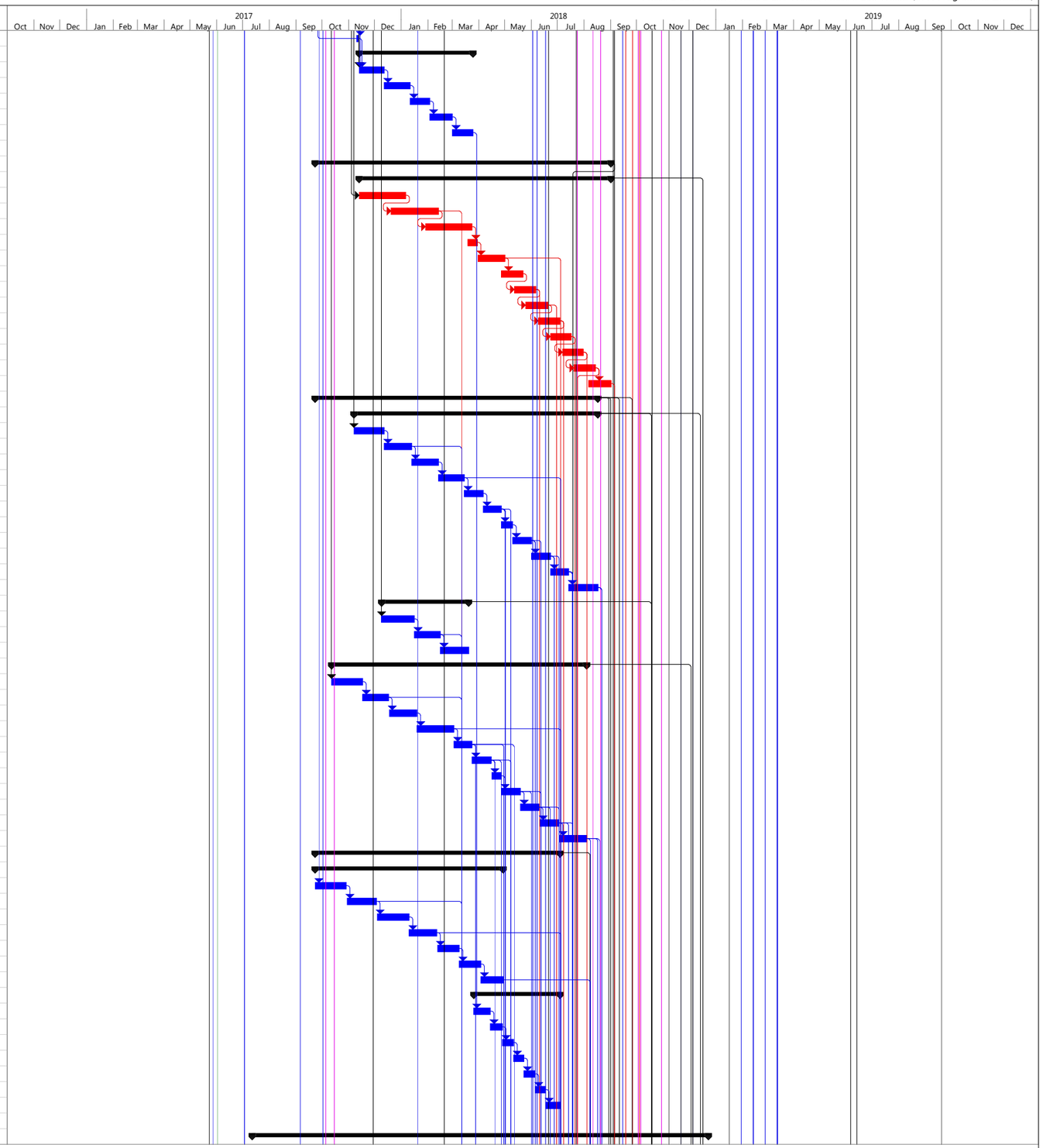


Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

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Date: _____

ID	Task Name	Duration	Start	Finish
285	Closure of Service Road to Excelsior Hotel	2 days	10 Nov '17	11 Nov '17
286	**Substructure Works**	**110 days**	**13 Nov '17**	**24 Mar '18**
287	Excavation to New B2 Level	25 days	13 Nov '17	11 Dec '17
288	New B2 Construction	24 days	12 Dec '17	10 Jan '18
289	New B1 Construction	20 days	11 Jan '18	2 Feb '18
290	Removal of Temporary Secant Piles	20 days	3 Feb '18	28 Feb '18
291	New L1 Construction	21 days	1 Mar '18	24 Mar '18
292				
293	**Superstructure Construction**	**283 days**	**23 Sep '17**	**31 Aug '18**
294	**Serviced Residence (RC Works)**	**241 days**	**13 Nov '17**	**31 Aug '18**
295	L2 Construction	45 days	13 Nov '17	5 Jan '18
296	L3 Construction	45 days	20 Dec '17	12 Feb '18
297	L4 Construction	45 days	29 Jan '18	23 Mar '18
298	Tower Crane Transfer (TC1)	10 days	19 Mar '18	29 Mar '18
299	L5 Construction	26 days	31 Mar '18	30 Apr '18
300	L6 Construction	20 days	27 Apr '18	21 May '18
301	L7 Construction	20 days	12 May '18	5 Jun '18
302	L8 Construction	20 days	25 May '18	19 Jun '18
303	L9 Construction	20 days	9 Jun '18	3 Jul '18
304	L10 Construction	20 days	23 Jun '18	16 Jul '18
305	L11 Construction	20 days	7 Jul '18	30 Jul '18
306	L12 Construction	20 days	20 Jul '18	13 Aug '18
307	Roof Construction	21 days	6 Aug '18	31 Aug '18
308	**Office Tower**	**271 days**	**23 Sep '17**	**16 Aug '18**
309	**North Tower - Zone O1 & O4**	**234 days**	**7 Nov '17**	**16 Aug '18**
310	L2 Construction	30 days	7 Nov '17	11 Dec '17
311	L3 Construction	26 days	12 Dec '17	12 Jan '18
312	L4 Construction	26 days	13 Jan '18	12 Feb '18
313	L5 Construction	24 days	13 Feb '18	14 Mar '18
314	L6 Construction	18 days	15 Mar '18	5 Apr '18
315	L7 Construction	18 days	6 Apr '18	26 Apr '18
316	Tower Crane Transfer (TC2)	10 days	27 Apr '18	9 May '18
317	L8 Construction	18 days	10 May '18	31 May '18
318	L9 Construction	18 days	1 Jun '18	22 Jun '18
319	L10 Construction	18 days	23 Jun '18	13 Jul '18
320	Roof Construction	28 days	14 Jul '18	16 Aug '18
321	**Central Zone - Zone O2 & O5**	**82 days**	**9 Dec '17**	**19 Mar '18**
322	L2 Construction	30 days	9 Dec '17	15 Jan '18
323	L3 Construction	26 days	16 Jan '18	14 Feb '18
324	L4 Construction	26 days	15 Feb '18	19 Mar '18
325	**South Tower - Zone O3 & O6**	**245 days**	**12 Oct '17**	**3 Aug '18**
326	L2 Construction	30 days	12 Oct '17	16 Nov '17
327	L3 Construction	26 days	17 Nov '17	16 Dec '17
328	L4 Construction	26 days	18 Dec '17	18 Jan '18
329	L5 Construction	35 days	19 Jan '18	2 Mar '18
330	L6 Construction	18 days	3 Mar '18	23 Mar '18
331	L7 Construction	18 days	24 Mar '18	14 Apr '18
332	Tower Crane Transfer (TC3)	10 days	16 Apr '18	26 Apr '18
333	L8 Construction	18 days	27 Apr '18	18 May '18
334	L9 Construction	18 days	19 May '18	9 Jun '18
335	L10 Construction	18 days	11 Jun '18	2 Jul '18
336	Roof Construction	28 days	3 Jul '18	3 Aug '18
337	**Finger Zone**	**234 days**	**23 Sep '17**	**3 Jul '18**
338	**Zone F1**	**181 days**	**23 Sep '17**	**28 Apr '18**
339	L2 Construction	30 days	23 Sep '17	28 Oct '17
340	L3 Construction	30 days	30 Oct '17	2 Dec '17
341	L4 Construction	30 days	4 Dec '17	9 Jan '18
342	L5 Construction	28 days	10 Jan '18	10 Feb '18
343	L6 Construction	20 days	12 Feb '18	8 Mar '18
344	L7 Construction	20 days	9 Mar '18	2 Apr '18
345	Roof Construction	23 days	3 Apr '18	28 Apr '18
346	**Zone F2**	**82 days**	**26 Mar '18**	**3 Jul '18**
347	L2 Construction	16 days	26 Mar '18	13 Apr '18
348	L3 Construction	12 days	14 Apr '18	27 Apr '18
349	L4 Construction	10 days	28 Apr '18	10 May '18
350	L5 Construction	10 days	11 May '18	22 May '18
351	L6 Construction	10 days	23 May '18	4 Jun '18
352	L7 Construction	10 days	5 Jun '18	16 Jun '18
353	Roof Construction	14 days	18 Jun '18	3 Jul '18
354				
355	**3B. Tower Crane Erection & Dismantling**	**440 days**	**12 Jul '17**	**22 Dec '18**

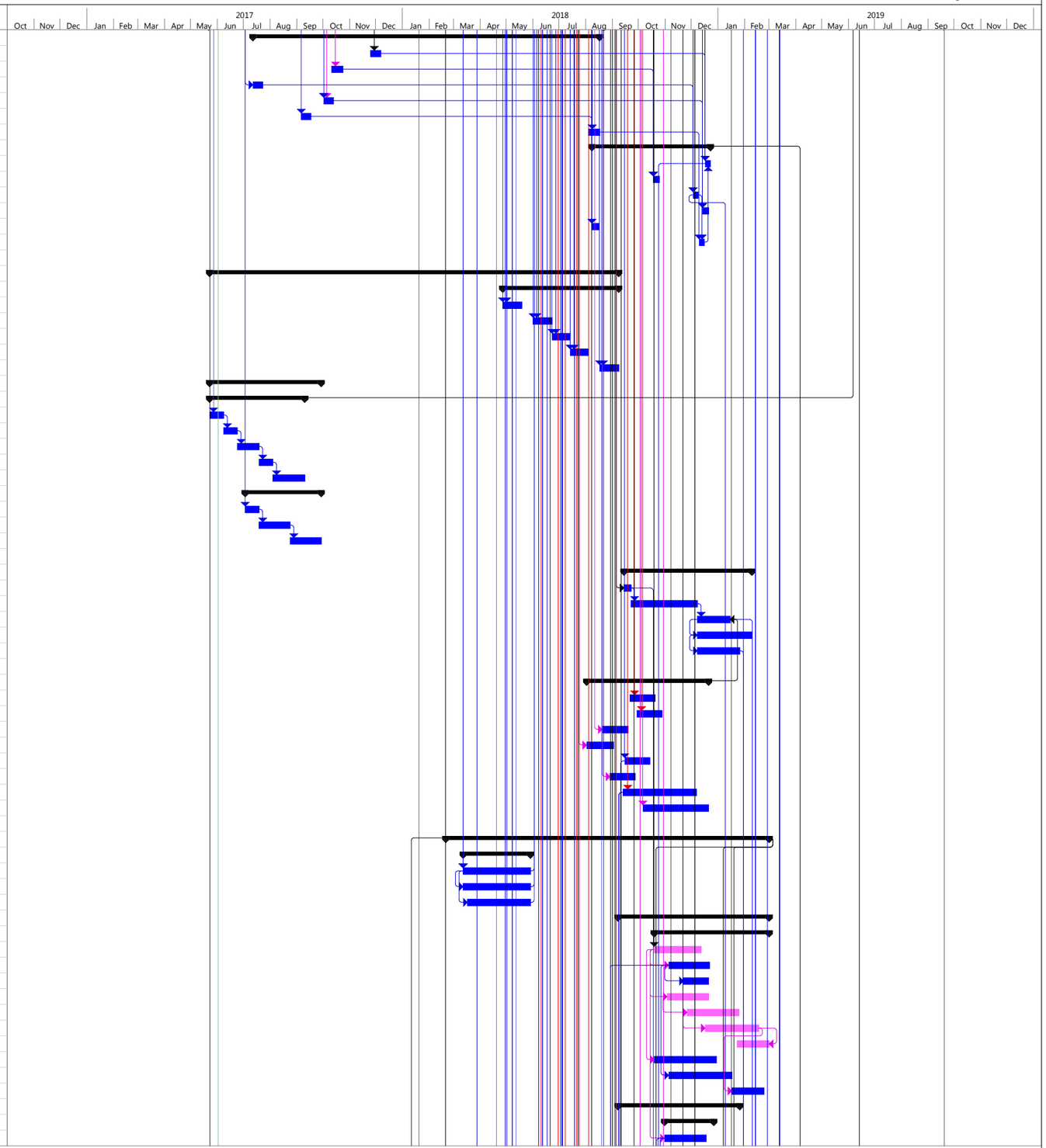


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
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ID	Task Name	Duration	Start	Finish
356	**Erection of TC**	**332 days**	**12 Jul '17**	**16 Aug '18**
357	TC1 (Zone SA1, SA2, SA3)	10 days	25 Nov '17	6 Dec '17
358	TC2 (Zone O1,O2)	10 days	11 Oct '17	23 Oct '17
359	TC3 (Zone O3)	10 days	12 Jul '17	22 Jul '17
360	TC4 (Zone O4, O5, O6)	10 days	2 Oct '17	12 Oct '17
361	TC5 (Zone F1, F2)	10 days	6 Sep '17	16 Sep '17
362	TC6 (Zone O3 Roof)	10 days	4 Aug '18	16 Aug '18
363	**Dismantle of TC**	**115 days**	**8 Aug '18**	**22 Dec '18**
364	TC1 (Zone SA1, SA2, SA3)	6 days	17 Dec '18	22 Dec '18
365	TC2 (Zone O1,O2)	6 days	18 Oct '18	24 Oct '18
366	TC3 (Zone O3)	6 days	3 Dec '18	8 Dec '18
367	TC4 (Zone O4, O5, O6)	6 days	14 Dec '18	20 Dec '18
368	TC5 (Zone F1, F2)	6 days	8 Aug '18	15 Aug '18
369	TC6 (Zone O3 Roof)	6 days	10 Dec '18	15 Dec '18
370				
371	**3C. Miscellaneous Structures**	**393 days**	**23 May '17**	**7 Sep '18**
372	**Bridges Linking North and South Office Towers**	**110 days**	**27 Apr '18**	**7 Sep '18**
373	Level 7	18 days	27 Apr '18	18 May '18
374	Level 8	18 days	1 Jun '18	22 Jun '18
375	Level 9	18 days	23 Jun '18	13 Jul '18
376	Level 10	18 days	14 Jul '18	3 Aug '18
377	Roof	18 days	17 Aug '18	7 Sep '18
378	**Pedestrian Overhead Bridge**	**109 days**	**23 May '17**	**28 Sep '17**
379	Hill Street	93 days	23 May '17	9 Sep '17
380	Backpropping Works	14 days	23 May '17	7 Jun '17
381	Hacking of Bridge	14 days	8 Jun '17	23 Jun '17
382	Micropile Installation	21 days	24 Jun '17	18 Jul '17
383	Column Casting	14 days	19 Jul '17	3 Aug '17
384	Reinstate of Works	30 days	4 Aug '17	9 Sep '17
385	North Bridge Road (Adelphi) - Prior to O4 CBP Works	74 days	3 Jul '17	28 Sep '17
386	Preparation Works	14 days	3 Jul '17	18 Jul '17
387	Removal of Bridge	30 days	19 Jul '17	23 Aug '17
388	Reinstate of Works	30 days	24 Aug '17	28 Sep '17
389				
390	**3D. Central Void Deck Related Works**	**122 days**	**14 Sep '18**	**8 Feb '19**
391	L1 Temporary deck dismantle	7 days	14 Sep '18	21 Sep '18
392	Tree of Life	65 days	22 Sep '18	7 Dec '18
393	L5 Skylight (Balance)	30 days	8 Dec '18	14 Jan '19
394	Architectural Works (Balance)	50 days	8 Dec '18	8 Feb '19
395	MEP Works (Balance)	40 days	8 Dec '18	25 Jan '19
396				
397	**3E. Excavation Muck Holes & Hoisting Opening Closure (B3 to L1)**	**118 days**	**2 Aug '18**	**20 Dec '18**
398	Muck Hole @ Zone SR2	25 days	21 Sep '18	19 Oct '18
399	Muck Hole @ Zone SR3	25 days	29 Sep '18	27 Oct '18
400	Muck Hole @ Zone O2	25 days	20 Aug '18	18 Sep '18
401	Muck Hole @ Zone O3	25 days	2 Aug '18	1 Sep '18
402	Muck Hole @ Zone O6	25 days	15 Sep '18	13 Oct '18
403	Muck Hole @ Zone O5	25 days	29 Aug '18	26 Sep '18
404	Hoisting Opening @ Zone SR1	72 days	13 Sep '18	6 Dec '18
405	Hoisting Opening @ Zone O5	64 days	6 Oct '18	20 Dec '18
406				
407	**4A. Architectural & M&E Works (Basement/Retails/Shops/Restaurants)**	**310 days**	**20 Feb '18**	**28 Feb '19**
408	**Retail Mock Ups**	**65 days**	**12 Mar '18**	**28 May '18**
409	Retail Toilet (On Site)	65 days	12 Mar '18	28 May '18
410	Retail Lift Lobby (On Site)	65 days	12 Mar '18	28 May '18
411	Retail Corridor (On Site)	60 days	17 Mar '18	28 May '18
412	**Basement 4**	**145 days**	**7 Sep '18**	**28 Feb '19**
413	**Architectural Works**	**109 days**	**19 Oct '18**	**28 Feb '19**
414	Skim coat & Plaster to wall and columns and ceiling	45 days	19 Oct '18	11 Dec '18
415	Painting Works	40 days	5 Nov '18	21 Dec '18
416	Column Guards	25 days	22 Nov '18	20 Dec '18
417	Carpark Screeding	40 days	3 Nov '18	20 Dec '18
418	Wheel Stopper	50 days	26 Nov '18	24 Jan '19
419	Epoxy Coating	50 days	17 Dec '18	16 Feb '19
420	Carpark lot marking (include directional signs)	30 days	23 Jan '19	28 Feb '19
421	Lift Lobbies Works	60 days	19 Oct '18	29 Dec '18
422	Store Rooms	60 days	5 Nov '18	16 Jan '19
423	Signages	30 days	17 Jan '19	22 Feb '19
424	**M&E Works**	**118 days**	**7 Sep '18**	**25 Jan '19**
425	M&E 2nd Fix	47 days	31 Oct '18	26 Dec '18
426	ACMV Works	40 days	31 Oct '18	17 Dec '18

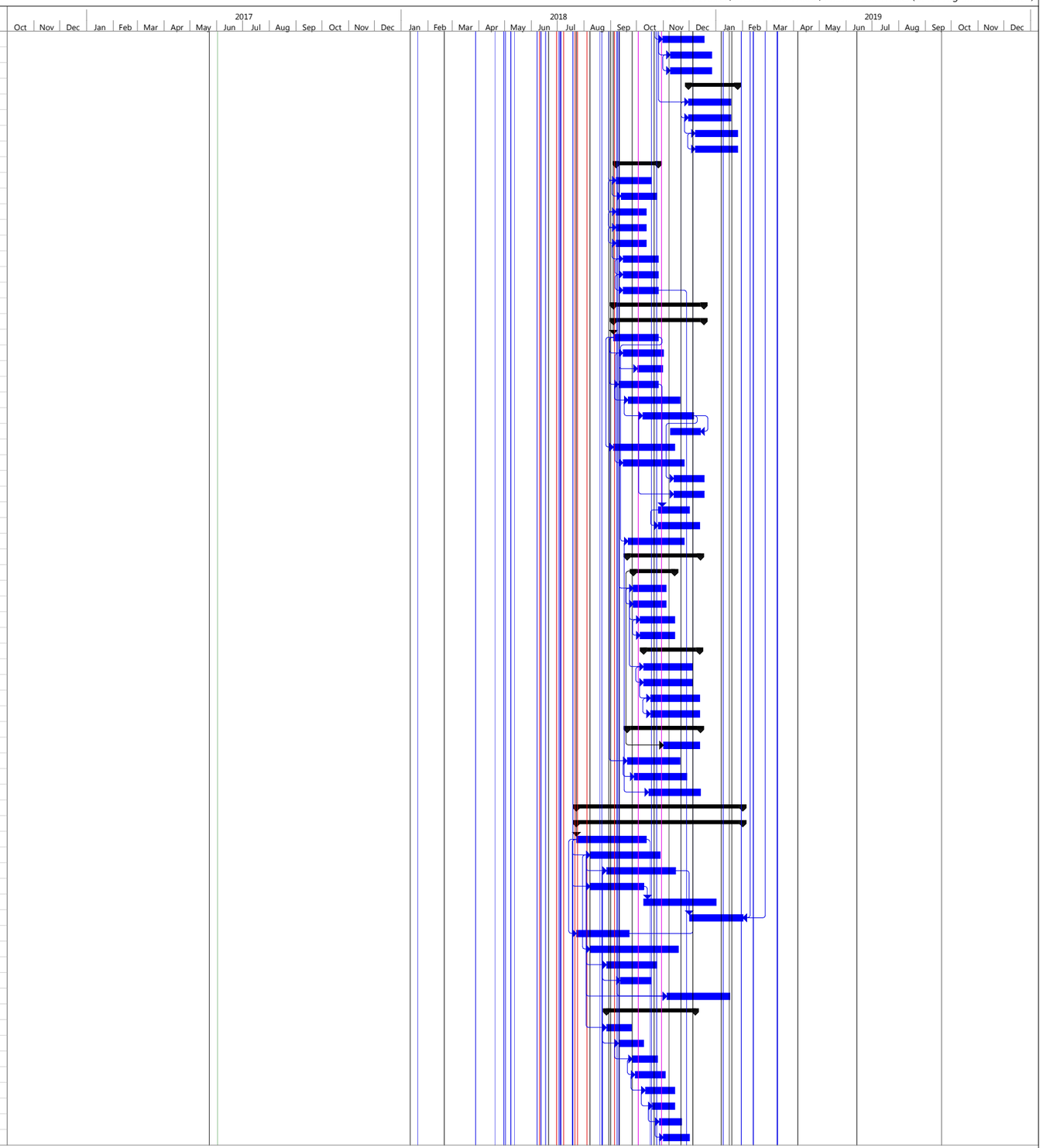


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
Critical Task — Milestone — Rolled Up Task — Rolled Up Milestone — Split — Project Summary — Deadline

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ID	Task Name	Duration	Start	Finish
427	Fire Protection Works	40 days	31 Oct '18	17 Dec '18
428	Plumbing Works	40 days	9 Nov '18	26 Dec '18
429	Electrical Works	40 days	9 Nov '18	26 Dec '18
430	M&E Final Fix & T&C	47 days	30 Nov '18	25 Jan '19
431	ACMV Works	40 days	30 Nov '18	17 Jan '19
432	Fire Protection Works	40 days	30 Nov '18	17 Jan '19
433	Plumbing Works	40 days	8 Dec '18	25 Jan '19
434	Electrical Works	40 days	8 Dec '18	25 Jan '19
435	**Others**	**42 days**	**7 Sep '18**	**25 Oct '18**
436	Charging Station & Smart Carpark System	35 days	7 Sep '18	17 Oct '18
437	Underground Fuel Tank	35 days	13 Sep '18	23 Oct '18
438	Underground Irrigation Tank	30 days	7 Sep '18	11 Oct '18
439	Divertor	30 days	7 Sep '18	11 Oct '18
440	Newater RC Transfer Tank	30 days	7 Sep '18	11 Oct '18
441	Domestic Water Tank RC Transfer Tank	35 days	15 Sep '18	25 Oct '18
442	Ejector Pump	35 days	15 Sep '18	25 Oct '18
443	Fire Pump Room	35 days	15 Sep '18	25 Oct '18
444	**Basement 3**	**89 days**	**4 Sep '18**	**17 Dec '18**
445	**Architectural Works**	**89 days**	**4 Sep '18**	**17 Dec '18**
446	Skim coat & Plaster to wall and columns and ceiling	45 days	4 Sep '18	25 Oct '18
447	Painting Works	40 days	15 Sep '18	31 Oct '18
448	Column Guards	25 days	2 Oct '18	30 Oct '18
449	Carpark Screeding	40 days	10 Sep '18	25 Oct '18
450	Wheel Stopper	50 days	21 Sep '18	19 Nov '18
451	Epoxy Coating	50 days	8 Oct '18	5 Dec '18
452	Carpark lot marking (include directional signs)	30 days	9 Nov '18	13 Dec '18
453	Lift Lobbies Works	60 days	4 Sep '18	13 Nov '18
454	Store Rooms	60 days	15 Sep '18	24 Nov '18
455	Signages	30 days	13 Nov '18	17 Dec '18
456	Double Tier Bicycle Lots Parking	30 days	13 Nov '18	17 Dec '18
457	Mail Box Area	30 days	26 Oct '18	30 Nov '18
458	Mobile Deployment Space	40 days	26 Oct '18	12 Dec '18
459	Management Office / MCST / Server Room	55 days	21 Sep '18	24 Nov '18
460	**M&E Works**	**72 days**	**20 Sep '18**	**13 Dec '18**
461	M&E 2nd Fix	40 days	27 Sep '18	13 Nov '18
462	ACMV Works	33 days	27 Sep '18	3 Nov '18
463	Fire Protection Works	33 days	27 Sep '18	3 Nov '18
464	Plumbing Works	33 days	5 Oct '18	13 Nov '18
465	Electrical Works	33 days	5 Oct '18	13 Nov '18
466	M&E Final Fix & T&C	55 days	9 Oct '18	12 Dec '18
467	ACMV Works	48 days	9 Oct '18	4 Dec '18
468	Fire Protection Works	48 days	9 Oct '18	4 Dec '18
469	Plumbing Works	48 days	17 Oct '18	12 Dec '18
470	Electrical Works	48 days	17 Oct '18	12 Dec '18
471	**Others**	**72 days**	**20 Sep '18**	**13 Dec '18**
472	Charging Station / Smart Carpark System	35 days	1 Nov '18	12 Dec '18
473	Divertor	51 days	20 Sep '18	19 Nov '18
474	Grease Separator Space	51 days	28 Sep '18	27 Nov '18
475	Kitchen Exhaust Fan Room	51 days	15 Oct '18	13 Dec '18
476	**Basement 2**	**161 days**	**23 Jul '18**	**31 Jan '19**
477	Architectural Works	161 days	23 Jul '18	31 Jan '19
478	Partition Wall Erection	68 days	23 Jul '18	11 Oct '18
479	Wall Plastering Works	68 days	8 Aug '18	27 Oct '18
480	Painting Works	68 days	27 Aug '18	14 Nov '18
481	Corridor Walkways & Ceiling Works	51 days	8 Aug '18	8 Oct '18
482	Water Feature Works	70 days	9 Oct '18	31 Dec '18
483	Rock Climbing Area Works	51 days	1 Dec '18	31 Jan '19
484	Rehearsal Room Works	51 days	23 Jul '18	21 Sep '18
485	Lift Lobbies Works	85 days	8 Aug '18	17 Nov '18
486	Concierge	50 days	27 Aug '18	23 Oct '18
487	CSFS Store	30 days	12 Sep '18	16 Oct '18
488	Food Hall	60 days	5 Nov '18	16 Jan '19
489	Male & Female & Handicapped Toilets Works	88 days	27 Aug '18	7 Dec '18
490	M&E 1st Fix	25 days	27 Aug '18	24 Sep '18
491	Waterproofing Works	25 days	10 Sep '18	8 Oct '18
492	Screeding Works	25 days	26 Sep '18	24 Oct '18
493	Plastering Works	30 days	29 Sep '18	2 Nov '18
494	M&E 2nd Fix	28 days	11 Oct '18	13 Nov '18
495	Tiling Works	21 days	19 Oct '18	13 Nov '18
496	Ceiling Works	21 days	27 Oct '18	21 Nov '18
497	Carpentry Works & Mirror Installation	25 days	1 Nov '18	30 Nov '18

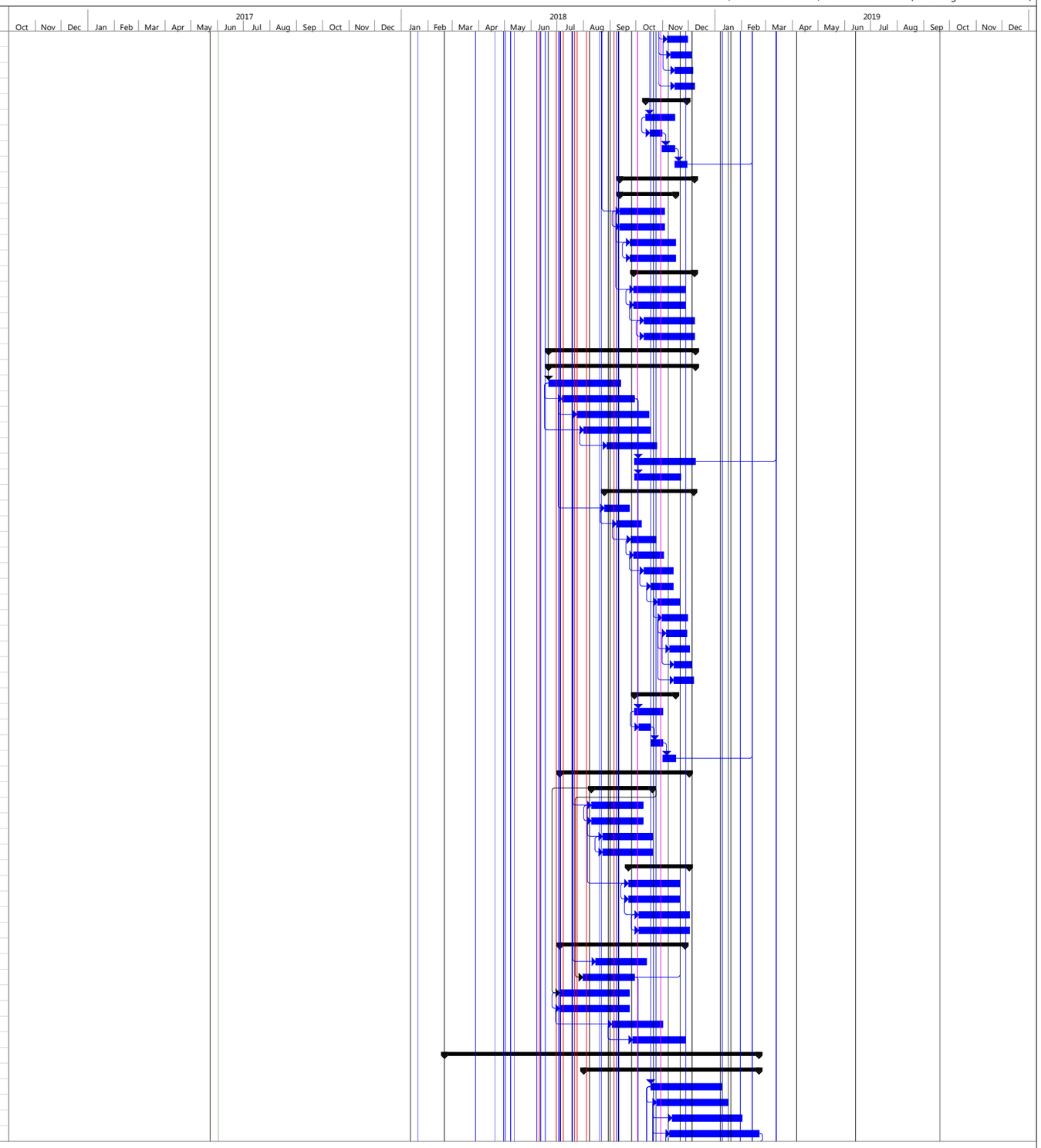


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ID	Task Name	Duration	Start	Finish
498	Bathroom & Sanitary Accessories	20 days	6 Nov '18	29 Nov '18
499	Door installation	20 days	10 Nov '18	3 Dec '18
500	M&E Final Fix	18 days	15 Nov '18	5 Dec '18
501	Loose ID Works	20 days	15 Nov '18	7 Dec '18
502	**Janitor Room**	**40 days**	**12 Oct '18**	**28 Nov '18**
503	M&E Works	28 days	12 Oct '18	14 Nov '18
504	Plastering Works	12 days	17 Oct '18	30 Oct '18
505	Painting Works	12 days	31 Oct '18	14 Nov '18
506	Tiling Works	12 days	15 Nov '18	28 Nov '18
507	**M&E Works**	**74 days**	**12 Sep '18**	**7 Dec '18**
508	M&E 2nd Fix	55 days	12 Sep '18	15 Nov '18
509	ACMV Works	45 days	12 Sep '18	2 Nov '18
510	Fire Protection Works	45 days	12 Sep '18	2 Nov '18
511	Plumbing Works	45 days	24 Sep '18	15 Nov '18
512	Electrical Works	45 days	24 Sep '18	15 Nov '18
513	M&E Final Fix & T&C	60 days	28 Sep '18	7 Dec '18
514	ACMV Works	50 days	28 Sep '18	26 Nov '18
515	Fire Protection Works	50 days	28 Sep '18	26 Nov '18
516	Plumbing Works	50 days	10 Oct '18	7 Dec '18
517	Electrical Works	50 days	10 Oct '18	7 Dec '18
518	**Basement 1**	**144 days**	**21 Jun '18**	**8 Dec '18**
519	**Architectural Works**	**144 days**	**21 Jun '18**	**8 Dec '18**
520	Partition Wall Erection	70 days	21 Jun '18	12 Sep '18
521	Wall Plastering Works	70 days	7 Jul '18	28 Sep '18
522	Painting Works	70 days	24 Jul '18	15 Oct '18
523	Corridor Walkways & Ceiling Works	65 days	1 Aug '18	17 Oct '18
524	Lift Lobbies Works	50 days	28 Aug '18	24 Oct '18
525	Cooking Studio	60 days	29 Sep '18	8 Dec '18
526	Storage	45 days	29 Sep '18	21 Nov '18
527	Male & Female & Handicapped Toilets Works	88 days	25 Aug '18	6 Dec '18
528	M&E 1st Fix	25 days	25 Aug '18	22 Sep '18
529	Waterproofing Works	25 days	8 Sep '18	6 Oct '18
530	Screeding Works	25 days	25 Sep '18	23 Oct '18
531	Plastering Works	30 days	28 Sep '18	1 Nov '18
532	M&E 2nd Fix	28 days	10 Oct '18	12 Nov '18
533	Tiling Works	21 days	18 Oct '18	12 Nov '18
534	Ceiling Works	21 days	26 Oct '18	20 Nov '18
535	Carpentry Works & Mirror Installation	25 days	31 Oct '18	29 Nov '18
536	Bathroom & Sanitary Accessories	20 days	5 Nov '18	28 Nov '18
537	Door installation	20 days	9 Nov '18	1 Dec '18
538	M&E Final Fix	18 days	14 Nov '18	4 Dec '18
539	Loose ID Works	20 days	14 Nov '18	6 Dec '18
540	**Janitor Room**	**40 days**	**29 Sep '18**	**15 Nov '18**
541	M&E Works	28 days	29 Sep '18	31 Oct '18
542	Plastering Works	12 days	4 Oct '18	17 Oct '18
543	Painting Works	12 days	18 Oct '18	31 Oct '18
544	Tiling Works	12 days	1 Nov '18	15 Nov '18
545	**M&E Works**	**127 days**	**4 Jul '18**	**1 Dec '18**
546	M&E 2nd Fix	60 days	10 Aug '18	19 Oct '18
547	ACMV Works	50 days	10 Aug '18	8 Oct '18
548	Fire Protection Works	50 days	10 Aug '18	8 Oct '18
549	Plumbing Works	50 days	23 Aug '18	19 Oct '18
550	Electrical Works	50 days	23 Aug '18	19 Oct '18
551	M&E Final Fix & T&C	60 days	22 Sep '18	1 Dec '18
552	ACMV Works	50 days	22 Sep '18	20 Nov '18
553	Fire Protection Works	50 days	22 Sep '18	20 Nov '18
554	Plumbing Works	50 days	4 Oct '18	1 Dec '18
555	Electrical Works	50 days	4 Oct '18	1 Dec '18
556	**Others**	**122 days**	**4 Jul '18**	**26 Nov '18**
557	Retail/Office/SR Security & Isolation Rooms	50 days	15 Aug '18	12 Oct '18
558	MDF Room	50 days	31 Jul '18	28 Sep '18
559	Transformer Room	68 days	4 Jul '18	22 Sep '18
560	LV Switch Room	68 days	4 Jul '18	22 Sep '18
561	J-Drum Compactor	51 days	3 Sep '18	31 Oct '18
562	Food Digestor / Recycling Area	51 days	27 Sep '18	26 Nov '18
563	**Level 1**	**303 days**	**20 Feb '18**	**20 Feb '19**
564	**Architectural Works**	**168 days**	**1 Aug '18**	**20 Feb '19**
565	Partition Wall Erection	68 days	18 Oct '18	8 Jan '19
566	Wall Plastering Works	68 days	25 Oct '18	15 Jan '19
567	Painting Works	68 days	12 Nov '18	31 Jan '19
568	Concrete Pavings	85 days	9 Nov '18	20 Feb '19

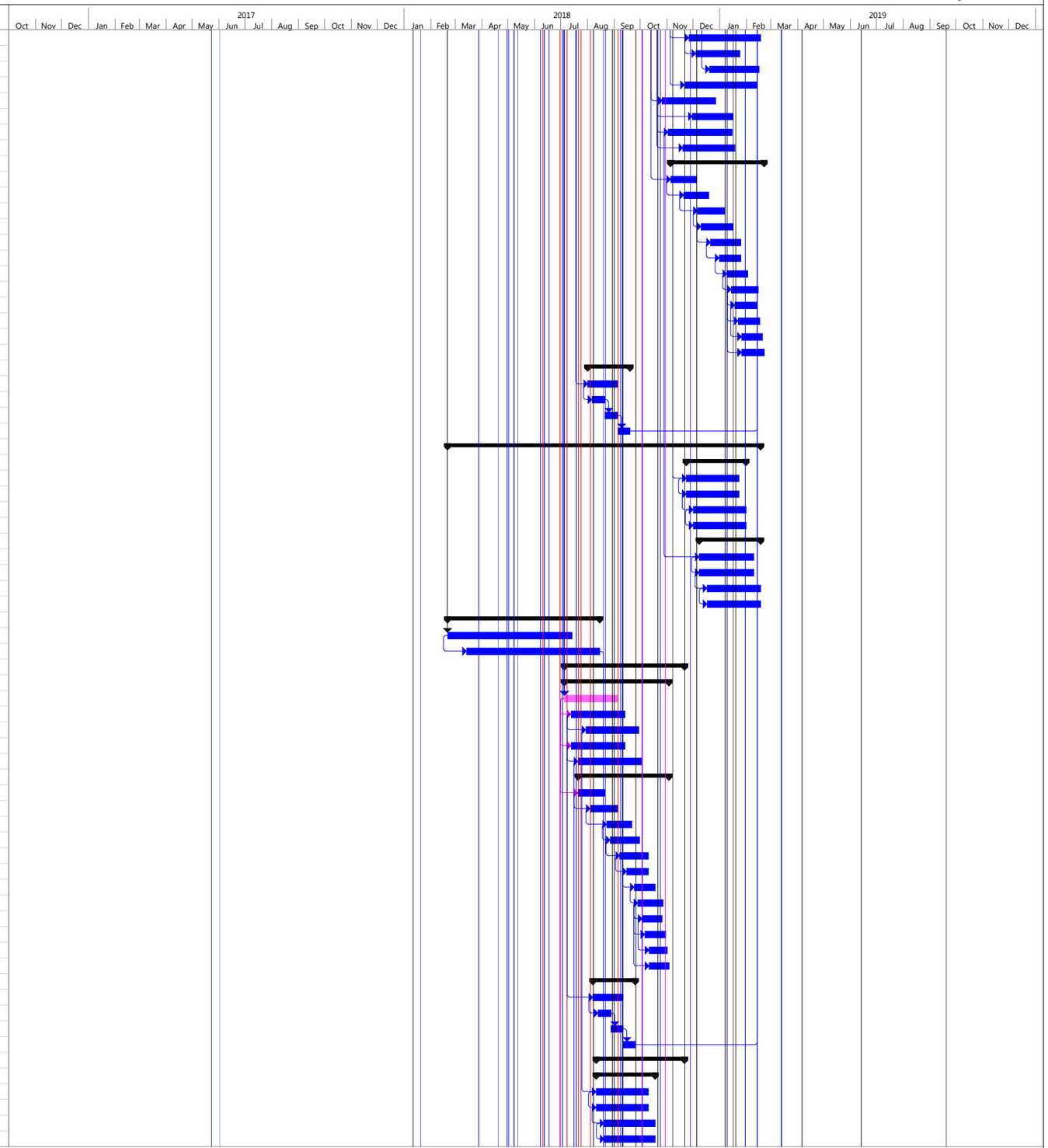


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ID	Task Name	Duration	Start	Finish
569	Timber Planks	68 days	26 Nov '18	16 Feb '19
570	Concrete Wall	42 days	4 Dec '18	23 Jan '19
571	Cycling Parking Racks	45 days	20 Dec '18	14 Feb '19
572	Softscape Works	68 days	21 Nov '18	12 Feb '19
573	Lift Lobbies Works	51 days	26 Oct '18	26 Dec '18
574	Taxi Stand / Drop Off	38 days	30 Nov '18	15 Jan '19
575	Corridor Walkways & Ceiling Works	60 days	2 Nov '18	14 Jan '19
576	Kinetic Wall	50 days	19 Nov '18	17 Jan '19
577	Male & Female & Handicapped Toilets Works	88 days	5 Nov '18	20 Feb '19
578	M&E 1st Fix	25 days	5 Nov '18	4 Dec '18
579	Waterproofing Works	25 days	20 Nov '18	18 Dec '18
580	Screeding Works	25 days	6 Dec '18	5 Jan '19
581	Plastering Works	30 days	10 Dec '18	15 Jan '19
582	M&E 2nd Fix	28 days	21 Dec '18	24 Jan '19
583	Tiling Works	21 days	31 Dec '18	24 Jan '19
584	Ceiling Works	21 days	9 Jan '19	1 Feb '19
585	Carpentry Works & Mirror Installation	25 days	14 Jan '19	13 Feb '19
586	Bathroom & Sanitary Accessories	20 days	18 Jan '19	12 Feb '19
587	Door installation	20 days	22 Jan '19	15 Feb '19
588	M&E Final Fix	18 days	26 Jan '19	18 Feb '19
589	Loose ID Works	20 days	26 Jan '19	20 Feb '19
590	**Janitor Room**	**40 days**	**1 Aug '18**	**18 Sep '18**
591	M&E Works	28 days	1 Aug '18	4 Sep '18
592	Plastering Works	12 days	6 Aug '18	20 Aug '18
593	Painting Works	12 days	21 Aug '18	4 Sep '18
594	Tiling Works	12 days	5 Sep '18	18 Sep '18
595	**M&E Works**	**300 days**	**20 Feb '18**	**16 Feb '19**
596	M&E 2nd Fix	57 days	23 Nov '18	30 Jan '19
597	ACMV Works	50 days	23 Nov '18	22 Jan '19
598	Fire Protection Works	50 days	23 Nov '18	22 Jan '19
599	Plumbing Works	50 days	1 Dec '18	30 Jan '19
600	Electrical Works	50 days	1 Dec '18	30 Jan '19
601	M&E Final Fix & T&C	57 days	8 Dec '18	16 Feb '19
602	ACMV Works	50 days	8 Dec '18	8 Feb '19
603	Fire Protection Works	50 days	8 Dec '18	8 Feb '19
604	Plumbing Works	50 days	17 Dec '18	16 Feb '19
605	Electrical Works	50 days	17 Dec '18	16 Feb '19
606	**Others**	**146 days**	**20 Feb '18**	**14 Aug '18**
607	FCC Room	120 days	20 Feb '18	13 Jul '18
608	Cable Chamber / Consumer Switchroom / SPPG Switchroom	127 days	14 Mar '18	14 Aug '18
609	**Level 2**	**116 days**	**5 Jul '18**	**20 Nov '18**
610	**Architectural Works**	**102 days**	**5 Jul '18**	**2 Nov '18**
611	Partition Wall Erection	51 days	5 Jul '18	4 Sep '18
612	Wall Plastering Works	51 days	13 Jul '18	12 Sep '18
613	Painting Works	51 days	30 Jul '18	28 Sep '18
614	Lift Lobbies Works	51 days	13 Jul '18	12 Sep '18
615	Corridor Walkways & Ceiling Works	60 days	21 Jul '18	1 Oct '18
616	Male & Female & Handicapped Toilets Works	88 days	21 Jul '18	2 Nov '18
617	M&E 1st Fix	25 days	21 Jul '18	20 Aug '18
618	Waterproofing Works	25 days	4 Aug '18	4 Sep '18
619	Screeding Works	25 days	23 Aug '18	20 Sep '18
620	Plastering Works	30 days	27 Aug '18	29 Sep '18
621	M&E 2nd Fix	28 days	7 Sep '18	9 Oct '18
622	Tiling Works	21 days	15 Sep '18	9 Oct '18
623	Ceiling Works	21 days	24 Sep '18	17 Oct '18
624	Carpentry Works & Mirror Installation	25 days	28 Sep '18	26 Oct '18
625	Bathroom & Sanitary Accessories	20 days	3 Oct '18	25 Oct '18
626	Door installation	20 days	6 Oct '18	29 Oct '18
627	M&E Final Fix	18 days	11 Oct '18	31 Oct '18
628	Loose ID Works	20 days	11 Oct '18	2 Nov '18
629	**Janitor Room**	**40 days**	**7 Aug '18**	**24 Sep '18**
630	M&E Works	28 days	7 Aug '18	10 Sep '18
631	Plastering Works	12 days	13 Aug '18	27 Aug '18
632	Painting Works	12 days	28 Aug '18	10 Sep '18
633	Tiling Works	12 days	11 Sep '18	24 Sep '18
634	**M&E Works**	**85 days**	**11 Aug '18**	**20 Nov '18**
635	M&E 2nd Fix	57 days	11 Aug '18	17 Oct '18
636	ACMV Works	50 days	11 Aug '18	9 Oct '18
637	Fire Protection Works	50 days	11 Aug '18	9 Oct '18
638	Plumbing Works	50 days	20 Aug '18	17 Oct '18
639	Electrical Works	50 days	20 Aug '18	17 Oct '18

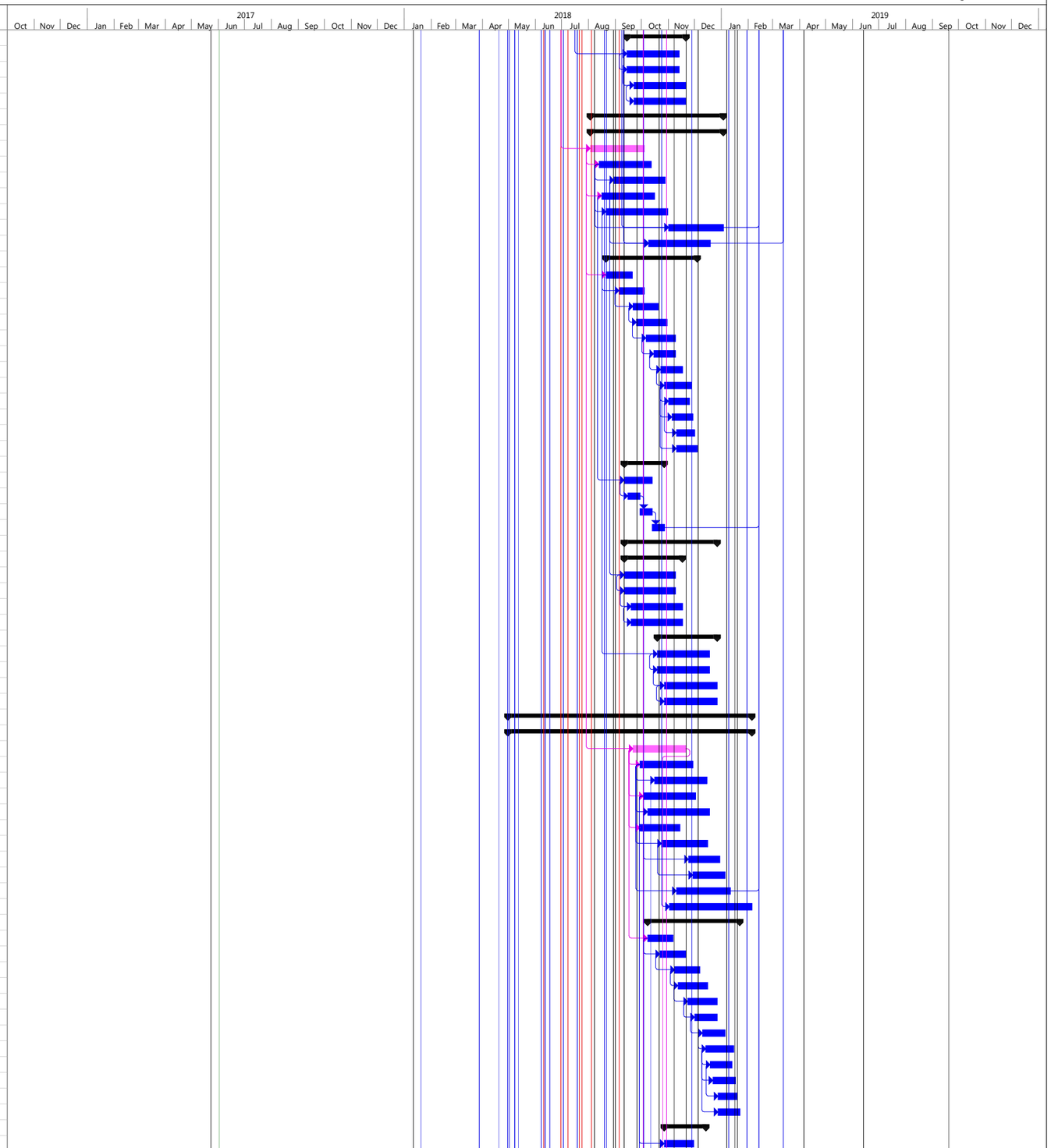


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ID	Task Name	Duration	Start	Finish
640	M&E Final Fix & T&C	57 days	14 Sep '18	20 Nov '18
641	ACMV Works	50 days	14 Sep '18	12 Nov '18
642	Fire Protection Works	50 days	14 Sep '18	12 Nov '18
643	Plumbing Works	50 days	22 Sep '18	20 Nov '18
644	Electrical Works	50 days	22 Sep '18	20 Nov '18
645	**Level 3**	**126 days**	**3 Aug '18**	**2 Jan '19**
646	**Architectural Works**	**126 days**	**3 Aug '18**	**2 Jan '19**
647	Partition Wall Erection	51 days	3 Aug '18	3 Oct '18
648	Wall Plastering Works	51 days	13 Aug '18	11 Oct '18
649	Painting Works	51 days	30 Aug '18	27 Oct '18
650	Lift Lobbies Works	51 days	16 Aug '18	15 Oct '18
651	Corridor Walkways & Ceiling Works	60 days	21 Aug '18	30 Oct '18
652	Gym	51 days	1 Nov '18	2 Jan '19
653	IT Operator	60 days	9 Oct '18	18 Dec '18
654	Male & Female & Handicapped Toilets Works	88 days	21 Aug '18	3 Dec '18
655	M&E 1st Fix	25 days	21 Aug '18	19 Sep '18
656	Waterproofing Works	25 days	5 Sep '18	3 Oct '18
657	Screeding Works	25 days	21 Sep '18	19 Oct '18
658	Plastering Works	30 days	25 Sep '18	29 Oct '18
659	M&E 2nd Fix	28 days	6 Oct '18	8 Nov '18
660	Tiling Works	21 days	15 Oct '18	8 Nov '18
661	Ceiling Works	21 days	23 Oct '18	16 Nov '18
662	Carpentry Works & Mirror Installation	25 days	27 Oct '18	26 Nov '18
663	Bathroom & Sanitary Accessories	20 days	1 Nov '18	24 Nov '18
664	Door installation	20 days	5 Nov '18	28 Nov '18
665	M&E Final Fix	18 days	10 Nov '18	30 Nov '18
666	Loose ID Works	20 days	10 Nov '18	3 Dec '18
667	**Janitor Room**	**40 days**	**11 Sep '18**	**26 Oct '18**
668	M&E Works	28 days	11 Sep '18	12 Oct '18
669	Plastering Works	12 days	15 Sep '18	28 Sep '18
670	Painting Works	12 days	29 Sep '18	12 Oct '18
671	Tiling Works	12 days	13 Oct '18	26 Oct '18
672	**M&E Works**	**90 days**	**11 Sep '18**	**26 Dec '18**
673	M&E 2nd Fix	57 days	11 Sep '18	16 Nov '18
674	ACMV Works	50 days	11 Sep '18	8 Nov '18
675	Fire Protection Works	50 days	11 Sep '18	8 Nov '18
676	Plumbing Works	50 days	19 Sep '18	16 Nov '18
677	Electrical Works	50 days	19 Sep '18	16 Nov '18
678	M&E Final Fix & T&C	57 days	19 Oct '18	26 Dec '18
679	ACMV Works	50 days	19 Oct '18	17 Dec '18
680	Fire Protection Works	50 days	19 Oct '18	17 Dec '18
681	Plumbing Works	50 days	27 Oct '18	26 Dec '18
682	Electrical Works	50 days	27 Oct '18	26 Dec '18
683	**Level 4**	**233 days**	**30 Apr '18**	**4 Feb '19**
684	**Architectural Works**	**233 days**	**30 Apr '18**	**4 Feb '19**
685	Partition Wall Erection	51 days	21 Sep '18	20 Nov '18
686	Wall Plastering Works	51 days	29 Sep '18	28 Nov '18
687	Painting Works	51 days	16 Oct '18	14 Dec '18
688	Lift Lobbies Works	51 days	3 Oct '18	1 Dec '18
689	Corridor Walkways & Ceiling Works	60 days	8 Oct '18	17 Dec '18
690	Serviced Apartment Lounge Lobby / Bar Café / FOH Office	38 days	29 Sep '18	13 Nov '18
691	Glass House	45 days	24 Oct '18	15 Dec '18
692	Landscape Area	30 days	24 Nov '18	29 Dec '18
693	Covered Terrace	30 days	29 Nov '18	4 Jan '19
694	Gym	51 days	10 Nov '18	10 Jan '19
695	Swimming Pool & Jacuzzi	78 days	2 Nov '18	4 Feb '19
696	**Male & Female & Handicapped Toilets Works**	**88 days**	**8 Oct '18**	**21 Jan '19**
697	M&E 1st Fix	25 days	8 Oct '18	5 Nov '18
698	Waterproofing Works	25 days	22 Oct '18	20 Nov '18
699	Screeding Works	25 days	8 Nov '18	6 Dec '18
700	Plastering Works	30 days	12 Nov '18	15 Dec '18
701	M&E 2nd Fix	28 days	23 Nov '18	26 Dec '18
702	Tiling Works	21 days	1 Dec '18	26 Dec '18
703	Ceiling Works	21 days	10 Dec '18	4 Jan '19
704	Carpentry Works & Mirror Installation	25 days	14 Dec '18	14 Jan '19
705	Bathroom & Sanitary Accessories	20 days	19 Dec '18	12 Jan '19
706	Door installation	20 days	22 Dec '18	16 Jan '19
707	M&E Final Fix	18 days	28 Dec '18	18 Jan '19
708	Loose ID Works	20 days	28 Dec '18	21 Jan '19
709	**Janitor Room**	**40 days**	**27 Oct '18**	**13 Dec '18**
710	M&E Works	28 days	27 Oct '18	29 Nov '18

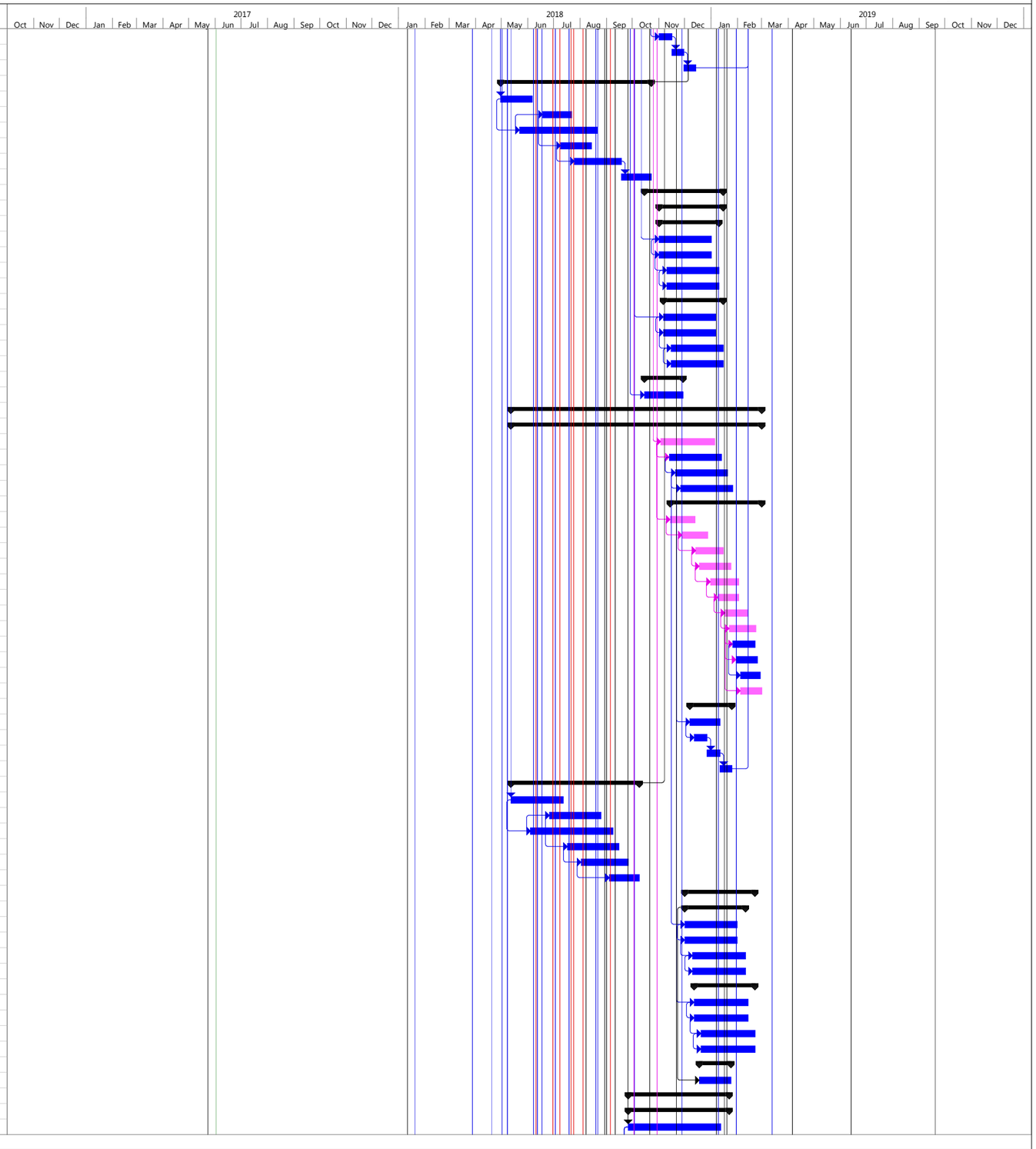


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Date: _____

ID	Task Name	Duration	Start	Finish
711	Plastering Works	12 days	1 Nov '18	15 Nov '18
712	Painting Works	12 days	16 Nov '18	29 Nov '18
713	Tiling Works	12 days	30 Nov '18	13 Dec '18
714	**Threatre**	**146 days**	**30 Apr '18**	**22 Oct '18**
715	Cavity Brick wall	30 days	30 Apr '18	5 Jun '18
716	Plastering Works	30 days	18 Jun '18	21 Jul '18
717	M&E 2nd Fix	75 days	22 May '18	20 Aug '18
718	Precast Concrete Panels	30 days	9 Jul '18	13 Aug '18
719	Back of House Works	45 days	25 Jul '18	17 Sep '18
720	M&E Final Fix & T&C	30 days	18 Sep '18	22 Oct '18
721	**M&E Works**	**76 days**	**15 Oct '18**	**14 Jan '19**
722	**M&E Works**	**61 days**	**1 Nov '18**	**14 Jan '19**
723	M&E 2nd Fix	57 days	1 Nov '18	9 Jan '19
724	ACMV Works	50 days	1 Nov '18	31 Dec '18
725	Fire Protection Works	50 days	1 Nov '18	31 Dec '18
726	Plumbing Works	50 days	10 Nov '18	9 Jan '19
727	Electrical Works	50 days	10 Nov '18	9 Jan '19
728	M&E Final Fix & T&C	57 days	6 Nov '18	14 Jan '19
729	ACMV Works	50 days	6 Nov '18	5 Jan '19
730	Fire Protection Works	50 days	6 Nov '18	5 Jan '19
731	Plumbing Works	50 days	15 Nov '18	14 Jan '19
732	Electrical Works	50 days	15 Nov '18	14 Jan '19
733	**Others**	**38 days**	**15 Oct '18**	**28 Nov '18**
734	Jacuzzi / Massage Jets	38 days	15 Oct '18	28 Nov '18
735	**Level 5**	**242 days**	**12 May '18**	**28 Feb '19**
736	**Architectural Works**	**242 days**	**12 May '18**	**28 Feb '19**
737	Partition Wall Erection	51 days	3 Nov '18	4 Jan '19
738	Wall Plastering Works	51 days	13 Nov '18	12 Jan '19
739	Painting Works	51 days	20 Nov '18	19 Jan '19
740	Lift Lobbies Works	51 days	26 Nov '18	25 Jan '19
741	Male & Female & Handicapped Toilets Works	88 days	14 Nov '18	28 Feb '19
742	M&E 1st Fix	25 days	14 Nov '18	12 Dec '18
743	Waterproofing Works	25 days	28 Nov '18	27 Dec '18
744	Screeding Works	25 days	14 Dec '18	14 Jan '19
745	Plastering Works	30 days	18 Dec '18	23 Jan '19
746	M&E 2nd Fix	28 days	31 Dec '18	1 Feb '19
747	Tiling Works	21 days	9 Jan '19	1 Feb '19
748	Ceiling Works	21 days	17 Jan '19	12 Feb '19
749	Carpentry Works & Mirror Installation	25 days	22 Jan '19	21 Feb '19
750	Bathroom & Sanitary Accessories	20 days	26 Jan '19	20 Feb '19
751	Door installation	20 days	30 Jan '19	23 Feb '19
752	M&E Final Fix	18 days	4 Feb '19	26 Feb '19
753	Loose ID Works	20 days	4 Feb '19	28 Feb '19
754	**Janitor Room**	**40 days**	**7 Dec '18**	**24 Jan '19**
755	M&E Works	28 days	7 Dec '18	10 Jan '19
756	Plastering Works	12 days	12 Dec '18	26 Dec '18
757	Painting Works	12 days	27 Dec '18	10 Jan '19
758	Tiling Works	12 days	11 Jan '19	24 Jan '19
759	**Cinema**	**124 days**	**12 May '18**	**8 Oct '18**
760	Cavity Brick wall	50 days	12 May '18	11 Jul '18
761	Plastering Works	50 days	26 Jun '18	24 Aug '18
762	M&E 2nd Fix	80 days	4 Jun '18	7 Sep '18
763	Precast Concrete Panels	50 days	17 Jul '18	14 Sep '18
764	Back of House Works	45 days	2 Aug '18	25 Sep '18
765	M&E Final Fix & T&C	30 days	4 Sep '18	8 Oct '18
766	**M&E Works**	**66 days**	**1 Dec '18**	**20 Feb '19**
767	M&E 2nd Fix	57 days	1 Dec '18	9 Feb '19
768	ACMV Works	50 days	1 Dec '18	30 Jan '19
769	Fire Protection Works	50 days	1 Dec '18	30 Jan '19
770	Plumbing Works	50 days	10 Dec '18	9 Feb '19
771	Electrical Works	50 days	10 Dec '18	9 Feb '19
772	M&E Final Fix & T&C	57 days	12 Dec '18	20 Feb '19
773	ACMV Works	50 days	12 Dec '18	12 Feb '19
774	Fire Protection Works	50 days	12 Dec '18	12 Feb '19
775	Plumbing Works	50 days	20 Dec '18	20 Feb '19
776	Electrical Works	50 days	20 Dec '18	20 Feb '19
777	**Others**	**30 days**	**18 Dec '18**	**23 Jan '19**
778	SSL	30 days	18 Dec '18	23 Jan '19
779	**Level 7 (Retail Only)**	**98 days**	**26 Sep '18**	**21 Jan '19**
780	Architectural Works	98 days	26 Sep '18	21 Jan '19
781	Urban Farm @ Roof	90 days	26 Sep '18	11 Jan '19

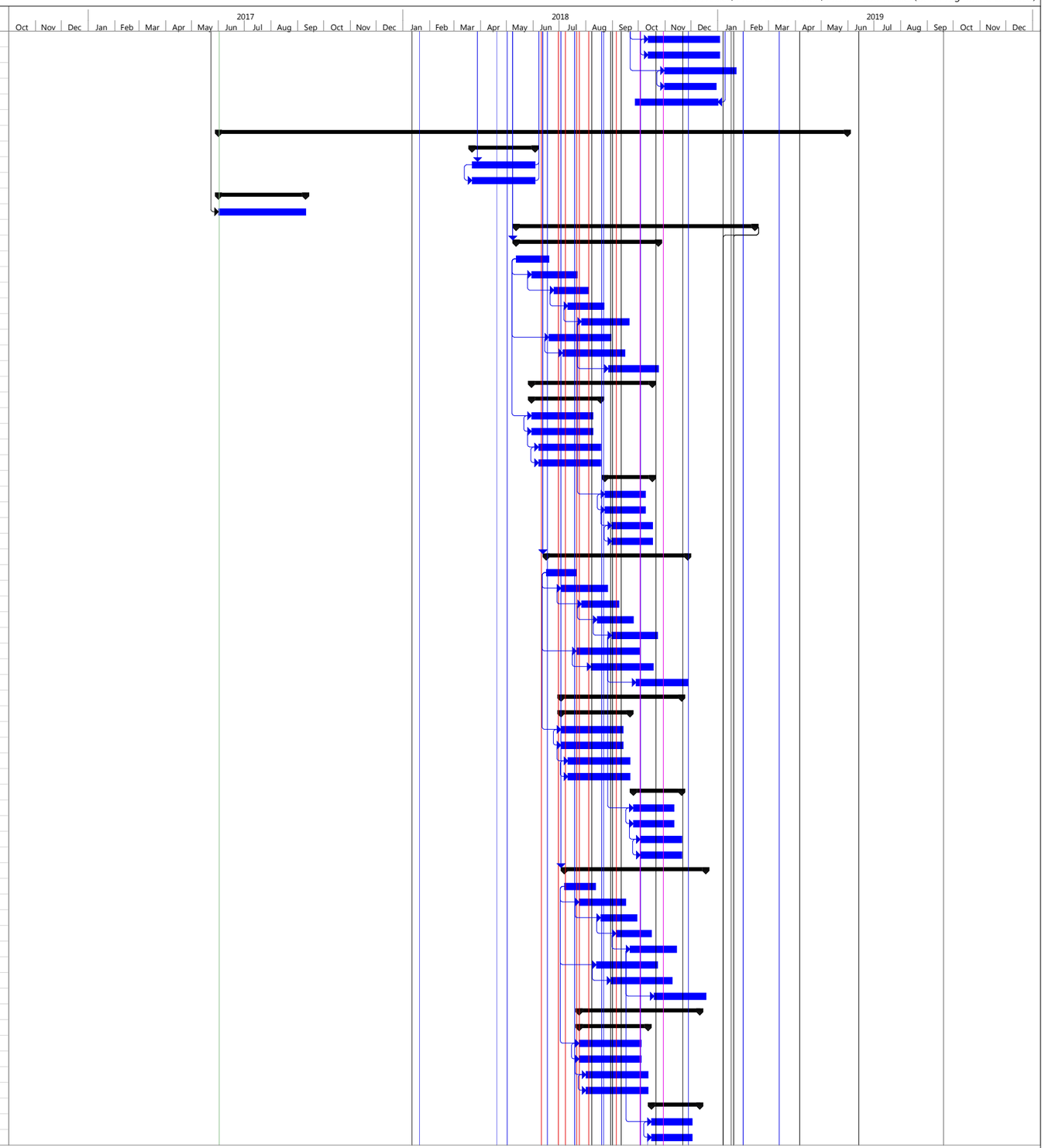


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
Critical Task — Milestone — Rolled Up Task — Rolled Up Milestone — Split — Project Summary — Deadline

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ID	Task Name	Duration	Start	Finish
782	Sports Facilities	68 days	12 Oct '18	2 Jan '19
783	Café/Restaurant	68 days	12 Oct '18	2 Jan '19
784	Lawn Gardens @ Roof	68 days	31 Oct '18	21 Jan '19
785	Futsal Court	50 days	31 Oct '18	29 Dec '18
786	Softscape Works	80 days	27 Sep '18	31 Dec '18
787				
788	**4B. Architectural & M&E Works (Offices & Serviced Residence)**	**605 days**	**1 Jun '17**	**30 May '19**
789	**Office Mock Ups**	**60 days**	**22 Mar '18**	**2 Jun '18**
790	Office Toilets (On Site)	60 days	22 Mar '18	2 Jun '18
791	Office Lift Lobby (On Site)	60 days	22 Mar '18	2 Jun '18
792	**Serviced Residence Mock Ups**	**85 days**	**1 Jun '17**	**9 Sep '17**
793	Serviced Residence Unit Mock Up (Off Site)	85 days	1 Jun '17	9 Sep '17
794	**Architectural Works (Phase 1 Offices L5 - L11)**	**228 days**	**12 May '18**	**12 Feb '19**
795	**Level 5**	**137 days**	**12 May '18**	**23 Oct '18**
796	Skim coat & Plaster to wall and columns	30 days	12 May '18	18 Jun '18
797	Raised Floor	45 days	30 May '18	21 Jul '18
798	Perforated Ceiling Panels	35 days	25 Jun '18	3 Aug '18
799	Partition Wall Erection	35 days	11 Jul '18	21 Aug '18
800	Painting Works	45 days	27 Jul '18	19 Sep '18
801	Lift Lobbies Works	60 days	19 Jun '18	29 Aug '18
802	Male & Female Toilets	60 days	5 Jul '18	14 Sep '18
803	Touch-Up Works	50 days	27 Aug '18	23 Oct '18
804	M&E Works	117 days	30 May '18	16 Oct '18
805	M&E 2nd Fix	67 days	30 May '18	17 Aug '18
806	ACMV Works	60 days	30 May '18	8 Aug '18
807	Fire Protection Works	60 days	30 May '18	8 Aug '18
808	Plumbing Works	60 days	7 Jun '18	17 Aug '18
809	Electrical Works	60 days	7 Jun '18	17 Aug '18
810	M&E Final Fix & T&C	47 days	23 Aug '18	16 Oct '18
811	ACMV Works	40 days	23 Aug '18	8 Oct '18
812	Fire Protection Works	40 days	23 Aug '18	8 Oct '18
813	Plumbing Works	40 days	31 Aug '18	16 Oct '18
814	Electrical Works	40 days	31 Aug '18	16 Oct '18
815	**Level 6**	**137 days**	**16 Jun '18**	**26 Nov '18**
816	Skim coat & Plaster to wall and columns	30 days	16 Jun '18	20 Jul '18
817	Raised Floor	45 days	3 Jul '18	25 Aug '18
818	Perforated Ceiling Panels	35 days	27 Jul '18	7 Sep '18
819	Partition Wall Erection	35 days	14 Aug '18	24 Sep '18
820	Painting Works	45 days	31 Aug '18	22 Oct '18
821	Lift Lobbies Works	60 days	21 Jul '18	1 Oct '18
822	Male & Female Toilets	60 days	7 Aug '18	17 Oct '18
823	Touch-Up Works	50 days	28 Sep '18	26 Nov '18
824	M&E Works	117 days	3 Jul '18	19 Nov '18
825	M&E 2nd Fix	67 days	3 Jul '18	20 Sep '18
826	ACMV Works	60 days	3 Jul '18	12 Sep '18
827	Fire Protection Works	60 days	3 Jul '18	12 Sep '18
828	Plumbing Works	60 days	11 Jul '18	20 Sep '18
829	Electrical Works	60 days	11 Jul '18	20 Sep '18
830	M&E Final Fix & T&C	47 days	25 Sep '18	19 Nov '18
831	ACMV Works	40 days	25 Sep '18	10 Nov '18
832	Fire Protection Works	40 days	25 Sep '18	10 Nov '18
833	Plumbing Works	40 days	3 Oct '18	19 Nov '18
834	Electrical Works	40 days	3 Oct '18	19 Nov '18
835	**Level 7**	**137 days**	**7 Jul '18**	**17 Dec '18**
836	Skim coat & Plaster to wall and columns	30 days	7 Jul '18	11 Aug '18
837	Raised Floor	45 days	24 Jul '18	15 Sep '18
838	Perforated Ceiling Panels	35 days	18 Aug '18	28 Sep '18
839	Partition Wall Erection	35 days	5 Sep '18	15 Oct '18
840	Painting Works	45 days	21 Sep '18	13 Nov '18
841	Lift Lobbies Works	60 days	13 Aug '18	22 Oct '18
842	Male & Female Toilets	60 days	30 Aug '18	8 Nov '18
843	Touch-Up Works	50 days	19 Oct '18	17 Dec '18
844	M&E Works	117 days	24 Jul '18	10 Dec '18
845	M&E 2nd Fix	67 days	24 Jul '18	11 Oct '18
846	ACMV Works	60 days	24 Jul '18	3 Oct '18
847	Fire Protection Works	60 days	24 Jul '18	3 Oct '18
848	Plumbing Works	60 days	1 Aug '18	11 Oct '18
849	Electrical Works	60 days	1 Aug '18	11 Oct '18
850	M&E Final Fix & T&C	47 days	16 Oct '18	10 Dec '18
851	ACMV Works	40 days	16 Oct '18	1 Dec '18
852	Fire Protection Works	40 days	16 Oct '18	1 Dec '18

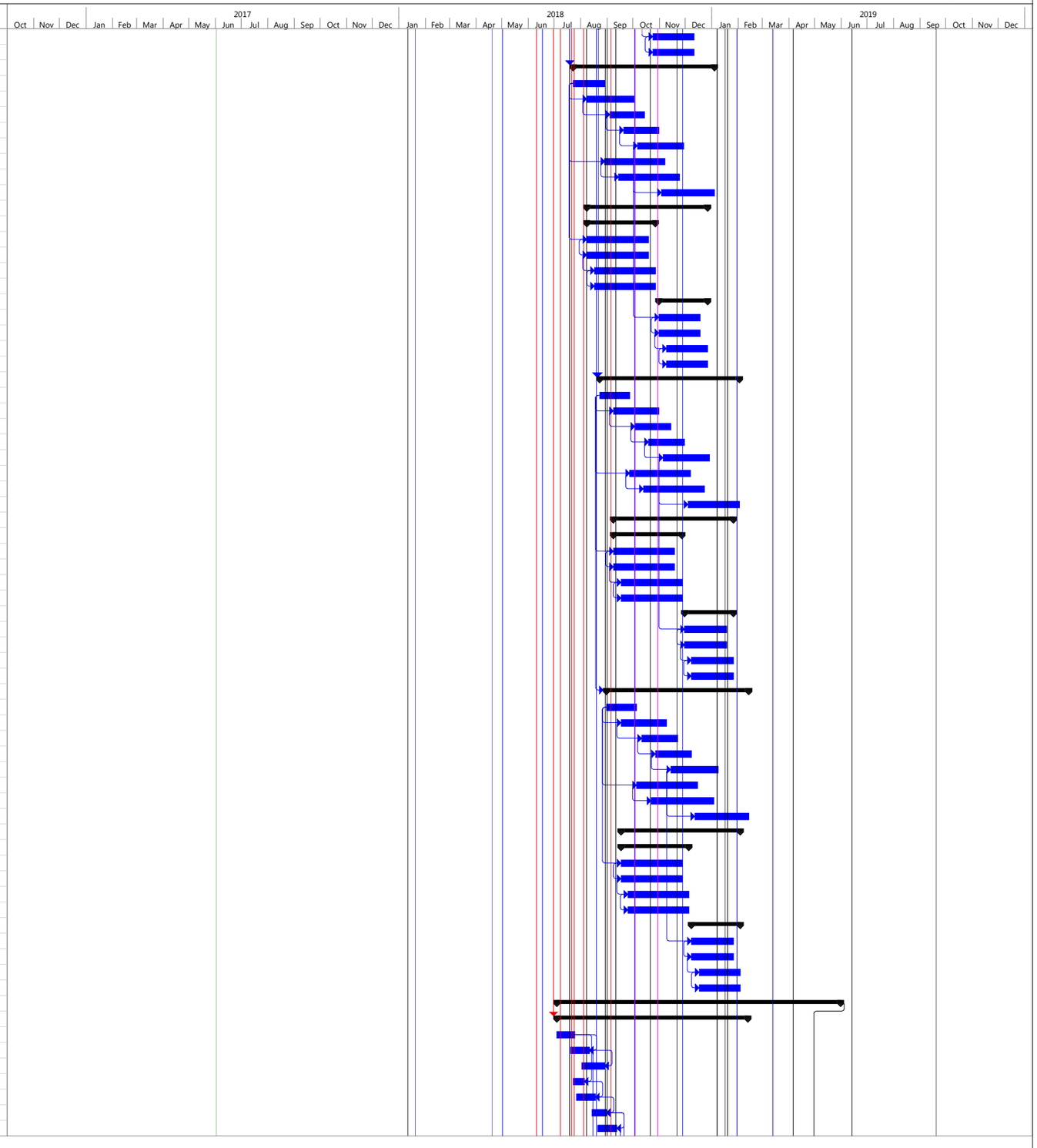


Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

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ID	Task Name	Duration	Start	Finish
853	Plumbing Works	40 days	24 Oct '18	10 Dec '18
854	Electrical Works	40 days	24 Oct '18	10 Dec '18
855	**Level 8**	**137 days**	**23 Jul '18**	**3 Jan '19**
856	Skim coat & Plaster to wall and columns	30 days	23 Jul '18	28 Aug '18
857	Raised Floor	45 days	8 Aug '18	1 Oct '18
858	Perforated Ceiling Panels	35 days	4 Sep '18	13 Oct '18
859	Partition Wall Erection	35 days	20 Sep '18	30 Oct '18
860	Painting Works	45 days	6 Oct '18	28 Nov '18
861	Lift Lobbies Works	60 days	29 Aug '18	6 Nov '18
862	Male & Female Toilets	60 days	14 Sep '18	23 Nov '18
863	Touch-Up Works	50 days	3 Nov '18	3 Jan '19
864	M&E Works	117 days	8 Aug '18	26 Dec '18
865	M&E 2nd Fix	67 days	8 Aug '18	26 Oct '18
866	ACMV Works	60 days	8 Aug '18	18 Oct '18
867	Fire Protection Works	60 days	8 Aug '18	18 Oct '18
868	Plumbing Works	60 days	17 Aug '18	26 Oct '18
869	Electrical Works	60 days	17 Aug '18	26 Oct '18
870	M&E Final Fix & T&C	47 days	31 Oct '18	26 Dec '18
871	ACMV Works	40 days	31 Oct '18	17 Dec '18
872	Fire Protection Works	40 days	31 Oct '18	17 Dec '18
873	Plumbing Works	40 days	9 Nov '18	26 Dec '18
874	Electrical Works	40 days	9 Nov '18	26 Dec '18
875	**Level 9**	**137 days**	**23 Aug '18**	**1 Feb '19**
876	Skim coat & Plaster to wall and columns	30 days	23 Aug '18	26 Sep '18
877	Raised Floor	45 days	8 Sep '18	30 Oct '18
878	Perforated Ceiling Panels	35 days	3 Oct '18	13 Nov '18
879	Partition Wall Erection	35 days	19 Oct '18	29 Nov '18
880	Painting Works	45 days	5 Nov '18	28 Dec '18
881	Lift Lobbies Works	60 days	27 Sep '18	6 Dec '18
882	Male & Female Toilets	60 days	13 Oct '18	22 Dec '18
883	Touch-Up Works	50 days	4 Dec '18	1 Feb '19
884	M&E Works	117 days	8 Sep '18	25 Jan '19
885	M&E 2nd Fix	67 days	8 Sep '18	26 Nov '18
886	ACMV Works	60 days	8 Sep '18	17 Nov '18
887	Fire Protection Works	60 days	8 Sep '18	17 Nov '18
888	Plumbing Works	60 days	17 Sep '18	26 Nov '18
889	Electrical Works	60 days	17 Sep '18	26 Nov '18
890	M&E Final Fix & T&C	47 days	30 Nov '18	25 Jan '19
891	ACMV Works	40 days	30 Nov '18	17 Jan '19
892	Fire Protection Works	40 days	30 Nov '18	17 Jan '19
893	Plumbing Works	40 days	8 Dec '18	25 Jan '19
894	Electrical Works	40 days	8 Dec '18	25 Jan '19
895	**Level 10**	**137 days**	**31 Aug '18**	**12 Feb '19**
896	Skim coat & Plaster to wall and columns	30 days	31 Aug '18	4 Oct '18
897	Raised Floor	45 days	17 Sep '18	8 Nov '18
898	Perforated Ceiling Panels	35 days	11 Oct '18	21 Nov '18
899	Partition Wall Erection	35 days	27 Oct '18	7 Dec '18
900	Painting Works	45 days	14 Nov '18	7 Jan '19
901	Lift Lobbies Works	60 days	5 Oct '18	14 Dec '18
902	Male & Female Toilets	60 days	22 Oct '18	2 Jan '19
903	Touch-Up Works	50 days	12 Dec '18	12 Feb '19
904	M&E Works	117 days	17 Sep '18	2 Feb '19
905	M&E 2nd Fix	67 days	17 Sep '18	4 Dec '18
906	ACMV Works	60 days	17 Sep '18	26 Nov '18
907	Fire Protection Works	60 days	17 Sep '18	26 Nov '18
908	Plumbing Works	60 days	25 Sep '18	4 Dec '18
909	Electrical Works	60 days	25 Sep '18	4 Dec '18
910	M&E Final Fix & T&C	47 days	8 Dec '18	2 Feb '19
911	ACMV Works	40 days	8 Dec '18	25 Jan '19
912	Fire Protection Works	40 days	8 Dec '18	25 Jan '19
913	Plumbing Works	40 days	17 Dec '18	2 Feb '19
914	Electrical Works	40 days	17 Dec '18	2 Feb '19
915	**Architectural Works (Phase 2 Serviced Residence L5 - L12)**	**275 days**	**4 Jul '18**	**30 May '19**
916	**Level 5**	**184 days**	**4 Jul '18**	**11 Feb '19**
917	Wet area kerb	18 days	4 Jul '18	24 Jul '18
918	Brickwork	18 days	20 Jul '18	10 Aug '18
919	Door / Window outer frame	21 days	2 Aug '18	28 Aug '18
920	Structural ponding test	12 days	23 Jul '18	4 Aug '18
921	Waterproofing	18 days	27 Jul '18	17 Aug '18
922	Waterponding test	14 days	14 Aug '18	30 Aug '18
923	M&E 1st fix	18 days	21 Aug '18	11 Sep '18

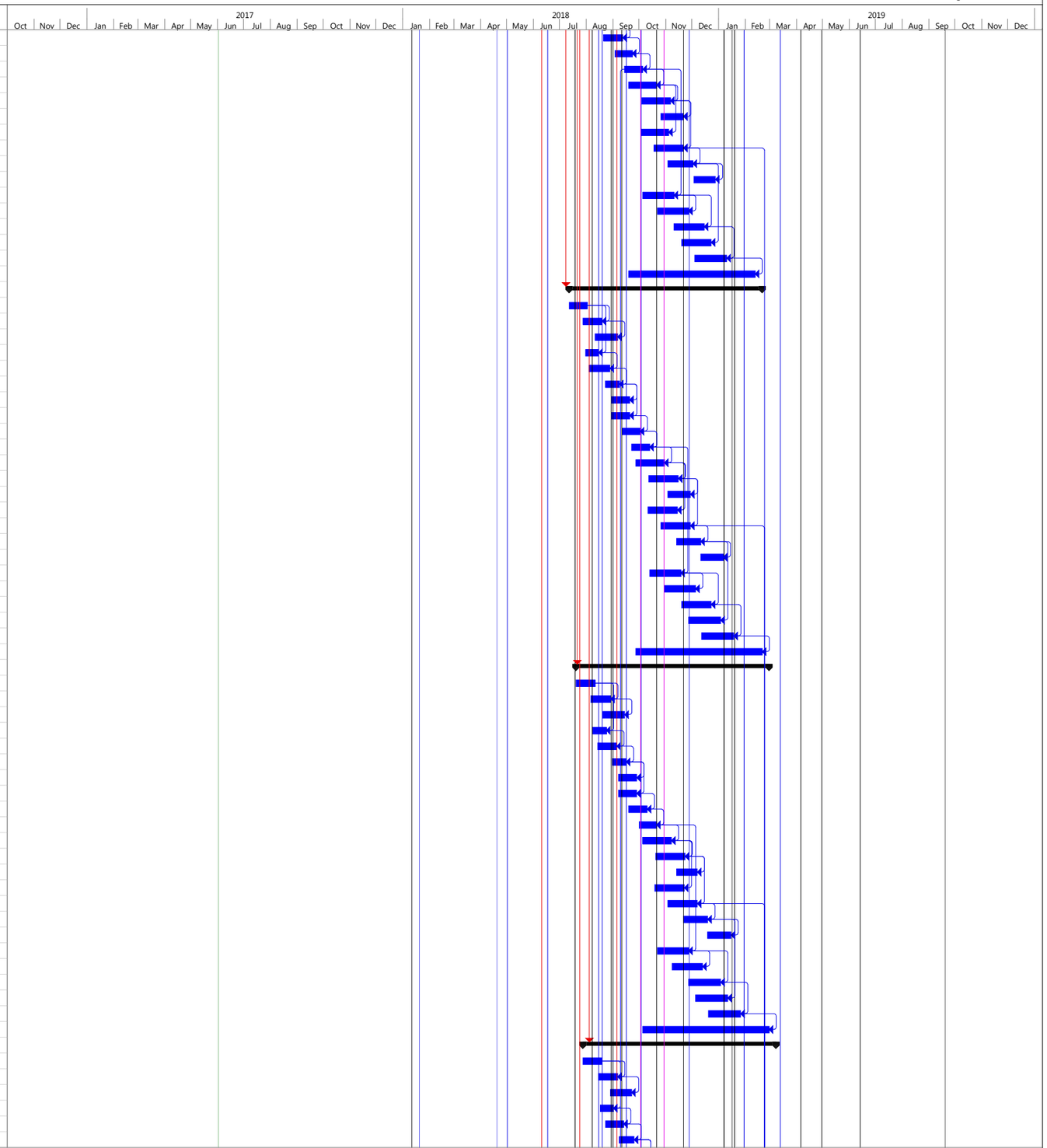


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Date: _____

ID	Task Name	Duration	Start	Finish
924	Floor screed	18 days	21 Aug '18	11 Sep '18
925	Wall base coat	18 days	3 Sep '18	22 Sep '18
926	Wall final coat	18 days	14 Sep '18	4 Oct '18
927	Bathroom tiling works	28 days	19 Sep '18	20 Oct '18
928	Bathroom vanity cabinet carcass	28 days	4 Oct '18	5 Nov '18
929	Bathroom vanity top & sink	21 days	26 Oct '18	20 Nov '18
930	Ceiling grid	28 days	3 Oct '18	3 Nov '18
931	M&E 2nd fix	28 days	18 Oct '18	20 Nov '18
932	Ceiling board	24 days	3 Nov '18	1 Dec '18
933	Sanitary wares	21 days	3 Dec '18	27 Dec '18
934	Sealer & 1st painting coat	30 days	5 Oct '18	9 Nov '18
935	Floor finishing	30 days	22 Oct '18	26 Nov '18
936	Doors installation / Ironmongery Installation	30 days	10 Nov '18	14 Dec '18
937	Final painting	30 days	19 Nov '18	22 Dec '18
938	Final touchup & cleaning	30 days	4 Dec '18	9 Jan '19
939	ID works (By ID Contractor)	120 days	19 Sep '18	11 Feb '19
940	**Level 6**	**184 days**	**12 Jul '18**	**19 Feb '19**
941	Wet area kerb	18 days	12 Jul '18	1 Aug '18
942	Brickwork	18 days	28 Jul '18	18 Aug '18
943	Door / Window outer frame	21 days	11 Aug '18	5 Sep '18
944	Structural ponding test	12 days	31 Jul '18	14 Aug '18
945	Waterproofing	18 days	4 Aug '18	27 Aug '18
946	Waterponding test	14 days	23 Aug '18	7 Sep '18
947	M&E 1st fix	18 days	30 Aug '18	19 Sep '18
948	Floor screed	18 days	30 Aug '18	19 Sep '18
949	Wall base coat	18 days	11 Sep '18	1 Oct '18
950	Wall final coat	18 days	22 Sep '18	12 Oct '18
951	Bathroom tiling works	28 days	27 Sep '18	29 Oct '18
952	Bathroom vanity cabinet carcass	28 days	12 Oct '18	14 Nov '18
953	Bathroom vanity top & sink	21 days	3 Nov '18	28 Nov '18
954	Ceiling grid	28 days	11 Oct '18	13 Nov '18
955	M&E 2nd fix	28 days	26 Oct '18	28 Nov '18
956	Ceiling board	24 days	13 Nov '18	10 Dec '18
957	Sanitary wares	21 days	11 Dec '18	5 Jan '19
958	Sealer & 1st painting coat	30 days	13 Oct '18	17 Nov '18
959	Floor finishing	30 days	30 Oct '18	4 Dec '18
960	Doors installation / Ironmongery Installation	30 days	19 Nov '18	22 Dec '18
961	Final painting	30 days	27 Nov '18	2 Jan '19
962	Final touchup & cleaning	30 days	12 Dec '18	17 Jan '19
963	ID works (By ID Contractor)	120 days	27 Sep '18	19 Feb '19
964	**Level 7**	**184 days**	**20 Jul '18**	**27 Feb '19**
965	Wet area kerb	18 days	20 Jul '18	10 Aug '18
966	Brickwork	18 days	6 Aug '18	28 Aug '18
967	Door / Window outer frame	21 days	20 Aug '18	13 Sep '18
968	Structural ponding test	12 days	8 Aug '18	23 Aug '18
969	Waterproofing	18 days	14 Aug '18	4 Sep '18
970	Waterponding test	14 days	31 Aug '18	15 Sep '18
971	M&E 1st fix	18 days	7 Sep '18	27 Sep '18
972	Floor screed	18 days	7 Sep '18	27 Sep '18
973	Wall base coat	18 days	19 Sep '18	9 Oct '18
974	Wall final coat	18 days	1 Oct '18	20 Oct '18
975	Bathroom tiling works	28 days	5 Oct '18	6 Nov '18
976	Bathroom vanity cabinet carcass	28 days	20 Oct '18	22 Nov '18
977	Bathroom vanity top & sink	21 days	13 Nov '18	6 Dec '18
978	Ceiling grid	28 days	19 Oct '18	21 Nov '18
979	M&E 2nd fix	28 days	3 Nov '18	6 Dec '18
980	Ceiling board	24 days	21 Nov '18	18 Dec '18
981	Sanitary wares	21 days	19 Dec '18	14 Jan '19
982	Sealer & 1st painting coat	30 days	22 Oct '18	26 Nov '18
983	Floor finishing	30 days	8 Nov '18	12 Dec '18
984	Doors installation / Ironmongery Installation	30 days	27 Nov '18	2 Jan '19
985	Final painting	30 days	5 Dec '18	10 Jan '19
986	Final touchup & cleaning	30 days	20 Dec '18	25 Jan '19
987	ID works (By ID Contractor)	120 days	5 Oct '18	27 Feb '19
988	**Level 8**	**184 days**	**28 Jul '18**	**7 Mar '19**
989	Wet area kerb	18 days	28 Jul '18	18 Aug '18
990	Brickwork	18 days	15 Aug '18	5 Sep '18
991	Door / Window outer frame	21 days	29 Aug '18	21 Sep '18
992	Structural ponding test	12 days	17 Aug '18	31 Aug '18
993	Waterproofing	18 days	23 Aug '18	12 Sep '18
994	Waterponding test	14 days	8 Sep '18	24 Sep '18

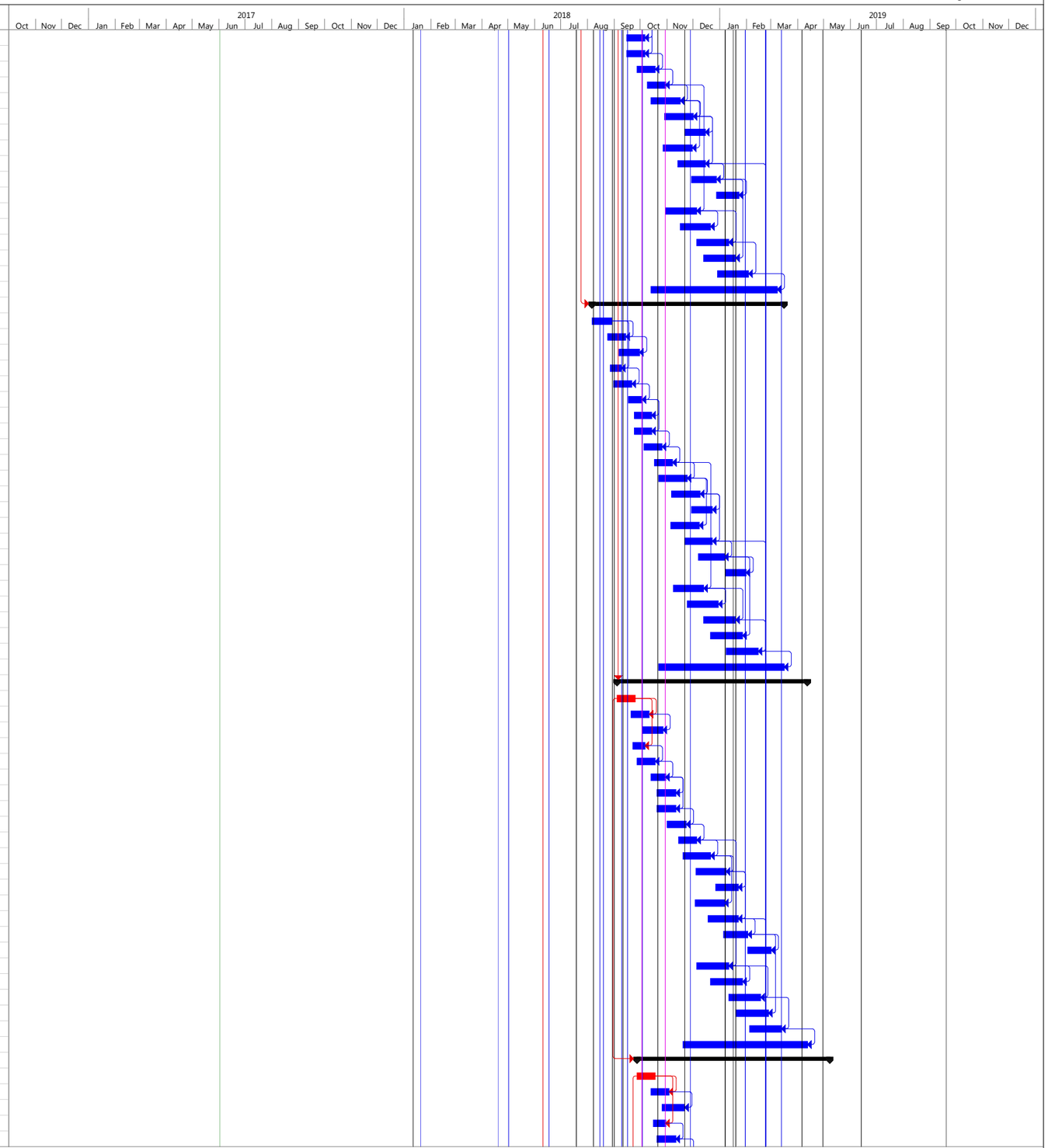


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
Critical Task — Milestone — Rolled Up Task — Rolled Up Milestone — Split — Project Summary — Deadline

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Date: _____

ID	Task Name	Duration	Start	Finish
995	M&E 1st fix	18 days	15 Sep '18	5 Oct '18
996	Floor screed	18 days	15 Sep '18	5 Oct '18
997	Wall base coat	18 days	27 Sep '18	17 Oct '18
998	Wall final coat	18 days	9 Oct '18	29 Oct '18
999	Bathroom tiling works	28 days	13 Oct '18	15 Nov '18
1000	Bathroom vanity cabinet carcass	28 days	29 Oct '18	30 Nov '18
1001	Bathroom vanity top & sink	21 days	21 Nov '18	14 Dec '18
1002	Ceiling grid	28 days	27 Oct '18	29 Nov '18
1003	M&E 2nd fix	28 days	13 Nov '18	14 Dec '18
1004	Ceiling board	24 days	29 Nov '18	27 Dec '18
1005	Sanitary wares	21 days	28 Dec '18	22 Jan '19
1006	Sealer & 1st painting coat	30 days	30 Oct '18	4 Dec '18
1007	Floor finishing	30 days	16 Nov '18	20 Dec '18
1008	Doors installation / Ironmongery Installation	30 days	5 Dec '18	10 Jan '19
1009	Final painting	30 days	13 Dec '18	18 Jan '19
1010	Final touchup & cleaning	30 days	29 Dec '18	2 Feb '19
1011	ID works (By ID Contractor)	120 days	13 Oct '18	7 Mar '19
1012	**Level 9**	**184 days**	**6 Aug '18**	**15 Mar '19**
1013	Wet area kerb	18 days	6 Aug '18	28 Aug '18
1014	Brickwork	18 days	24 Aug '18	13 Sep '18
1015	Door / Window outer frame	21 days	6 Sep '18	29 Sep '18
1016	Structural ponding test	12 days	27 Aug '18	8 Sep '18
1017	Waterproofing	18 days	31 Aug '18	20 Sep '18
1018	Waterponding test	14 days	17 Sep '18	2 Oct '18
1019	M&E 1st fix	18 days	24 Sep '18	13 Oct '18
1020	Floor screed	18 days	24 Sep '18	13 Oct '18
1021	Wall base coat	18 days	5 Oct '18	25 Oct '18
1022	Wall final coat	18 days	17 Oct '18	6 Nov '18
1023	Bathroom tiling works	28 days	22 Oct '18	23 Nov '18
1024	Bathroom vanity cabinet carcass	28 days	6 Nov '18	8 Dec '18
1025	Bathroom vanity top & sink	21 days	29 Nov '18	22 Dec '18
1026	Ceiling grid	28 days	5 Nov '18	7 Dec '18
1027	M&E 2nd fix	28 days	21 Nov '18	22 Dec '18
1028	Ceiling board	24 days	7 Dec '18	5 Jan '19
1029	Sanitary wares	21 days	7 Jan '19	30 Jan '19
1030	Sealer & 1st painting coat	30 days	8 Nov '18	12 Dec '18
1031	Floor finishing	30 days	24 Nov '18	29 Dec '18
1032	Doors installation / Ironmongery Installation	30 days	13 Dec '18	18 Jan '19
1033	Final painting	30 days	21 Dec '18	26 Jan '19
1034	Final touchup & cleaning	30 days	8 Jan '19	13 Feb '19
1035	ID works (By ID Contractor)	120 days	22 Oct '18	15 Mar '19
1036	**Level 10**	**184 days**	**4 Sep '18**	**11 Apr '19**
1037	Wet area kerb	18 days	4 Sep '18	24 Sep '18
1038	Brickwork	18 days	20 Sep '18	10 Oct '18
1039	Door / Window outer frame	21 days	3 Oct '18	26 Oct '18
1040	Structural ponding test	12 days	22 Sep '18	5 Oct '18
1041	Waterproofing	18 days	27 Sep '18	17 Oct '18
1042	Waterponding test	14 days	13 Oct '18	29 Oct '18
1043	M&E 1st fix	18 days	20 Oct '18	10 Nov '18
1044	Floor screed	18 days	20 Oct '18	10 Nov '18
1045	Wall base coat	18 days	1 Nov '18	22 Nov '18
1046	Wall final coat	18 days	14 Nov '18	4 Dec '18
1047	Bathroom tiling works	28 days	19 Nov '18	20 Dec '18
1048	Bathroom vanity cabinet carcass	28 days	4 Dec '18	7 Jan '19
1049	Bathroom vanity top & sink	21 days	27 Dec '18	21 Jan '19
1050	Ceiling grid	28 days	3 Dec '18	5 Jan '19
1051	M&E 2nd fix	28 days	18 Dec '18	21 Jan '19
1052	Ceiling board	24 days	5 Jan '19	1 Feb '19
1053	Sanitary wares	21 days	2 Feb '19	28 Feb '19
1054	Sealer & 1st painting coat	30 days	5 Dec '18	10 Jan '19
1055	Floor finishing	30 days	21 Dec '18	26 Jan '19
1056	Doors installation / Ironmongery Installation	30 days	11 Jan '19	16 Feb '19
1057	Final painting	30 days	19 Jan '19	25 Feb '19
1058	Final touchup & cleaning	30 days	4 Feb '19	12 Mar '19
1059	ID works (By ID Contractor)	120 days	19 Nov '18	11 Apr '19
1060	**Level 11**	**184 days**	**27 Sep '18**	**7 May '19**
1061	Wet area kerb	18 days	27 Sep '18	17 Oct '18
1062	Brickwork	18 days	13 Oct '18	2 Nov '18
1063	Door / Window outer frame	21 days	26 Oct '18	20 Nov '18
1064	Structural ponding test	12 days	16 Oct '18	29 Oct '18
1065	Waterproofing	18 days	20 Oct '18	10 Nov '18

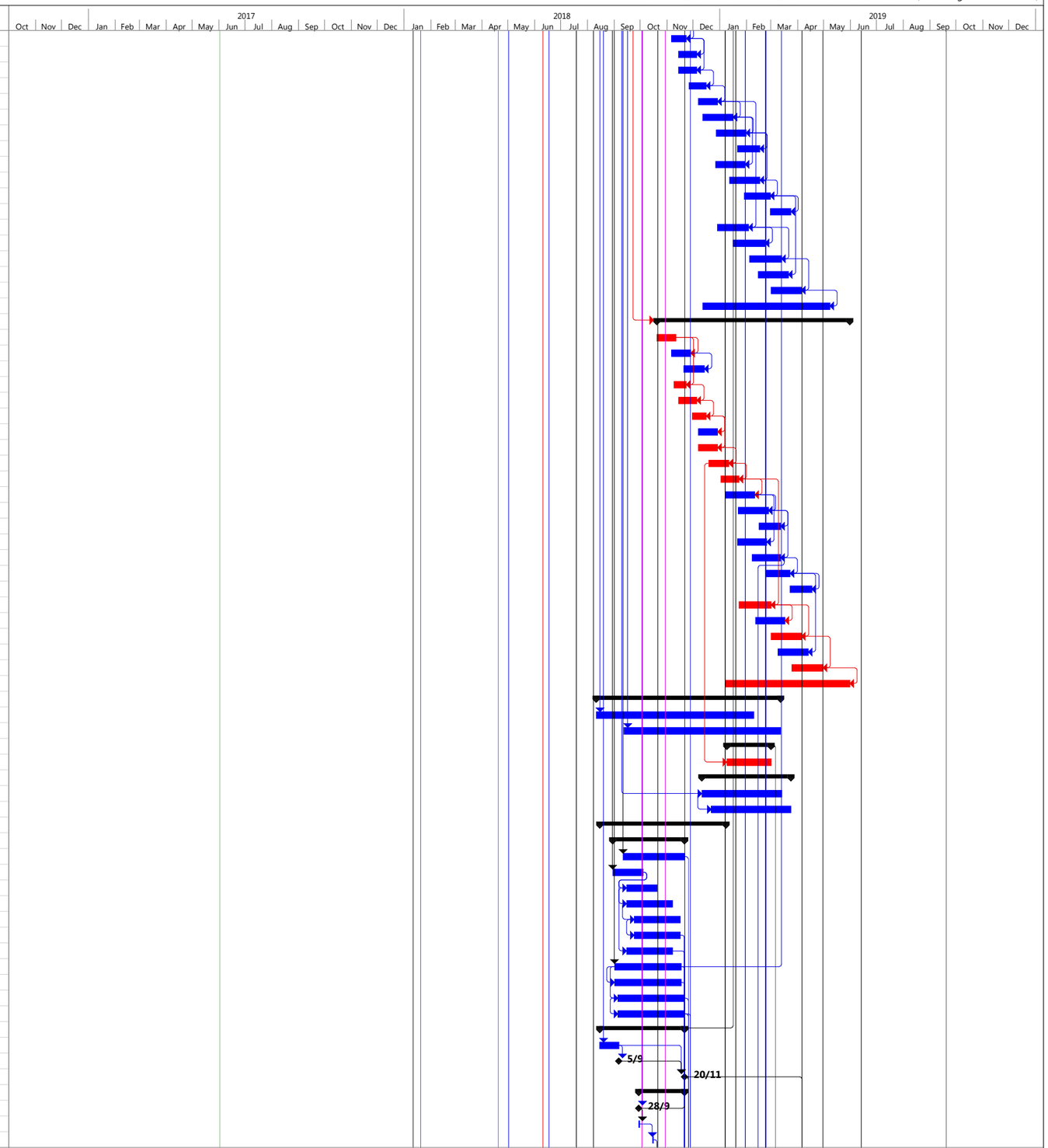


Task — Progress — Summary — Rolled Up Critical Task — Rolled Up Progress — External Tasks — Group By Summary
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ID	Task Name	Duration	Start	Finish
1066	Waterponding test	14 days	6 Nov '18	22 Nov '18
1067	M&E 1st fix	18 days	14 Nov '18	4 Dec '18
1068	Floor screed	18 days	14 Nov '18	4 Dec '18
1069	Wall base coat	18 days	26 Nov '18	15 Dec '18
1070	Wall final coat	18 days	7 Dec '18	28 Dec '18
1071	Bathroom tiling works	28 days	12 Dec '18	15 Jan '19
1072	Bathroom vanity cabinet carcass	28 days	28 Dec '18	30 Jan '19
1073	Bathroom vanity top & sink	21 days	21 Jan '19	15 Feb '19
1074	Ceiling grid	28 days	27 Dec '18	29 Jan '19
1075	M&E 2nd fix	28 days	12 Jan '19	15 Feb '19
1076	Ceiling board	24 days	29 Jan '19	27 Feb '19
1077	Sanitary wares	21 days	28 Feb '19	23 Mar '19
1078	Sealer & 1st painting coat	30 days	29 Dec '18	2 Feb '19
1079	Floor finishing	30 days	16 Jan '19	21 Feb '19
1080	Doors installation / Ironmongery Installation	30 days	4 Feb '19	12 Mar '19
1081	Final painting	30 days	14 Feb '19	20 Mar '19
1082	Final touchup & cleaning	30 days	1 Mar '19	4 Apr '19
1083	ID works (By ID Contractor)	120 days	12 Dec '18	7 May '19
1084	**Level 12**	**184 days**	**20 Oct '18**	**30 May '19**
1085	Wet area kerb	18 days	20 Oct '18	10 Nov '18
1086	Brickwork	18 days	6 Nov '18	27 Nov '18
1087	Door / Window outer frame	21 days	20 Nov '18	13 Dec '18
1088	Structural ponding test	12 days	9 Nov '18	22 Nov '18
1089	Waterproofing	18 days	14 Nov '18	4 Dec '18
1090	Waterponding test	14 days	30 Nov '18	15 Dec '18
1091	M&E 1st fix	18 days	7 Dec '18	28 Dec '18
1092	Floor screed	18 days	7 Dec '18	28 Dec '18
1093	Wall base coat	18 days	19 Dec '18	10 Jan '19
1094	Wall final coat	18 days	2 Jan '19	22 Jan '19
1095	Bathroom tiling works	28 days	7 Jan '19	9 Feb '19
1096	Bathroom vanity cabinet carcass	28 days	22 Jan '19	25 Feb '19
1097	Bathroom vanity top & sink	21 days	15 Feb '19	11 Mar '19
1098	Ceiling grid	28 days	21 Jan '19	23 Feb '19
1099	M&E 2nd fix	28 days	7 Feb '19	11 Mar '19
1100	Ceiling board	24 days	23 Feb '19	22 Mar '19
1101	Sanitary wares	21 days	23 Mar '19	16 Apr '19
1102	Sealer & 1st painting coat	30 days	23 Jan '19	28 Feb '19
1103	Floor finishing	30 days	11 Feb '19	16 Mar '19
1104	Doors installation / Ironmongery Installation	30 days	1 Mar '19	4 Apr '19
1105	Final painting	30 days	9 Mar '19	12 Apr '19
1106	Final touchup & cleaning	30 days	25 Mar '19	29 Apr '19
1107	ID works (By ID Contractor)	120 days	7 Jan '19	30 May '19
1108	**Common Areas/ Corridor**	**176 days**	**11 Aug '18**	**11 Mar '19**
1109	Archi Works	150 days	11 Aug '18	8 Feb '19
1110	M&E Works	150 days	12 Sep '18	11 Mar '19
1111	**Roof**	**42 days**	**9 Jan '19**	**28 Feb '19**
1112	Archi Works & Softscape	42 days	9 Jan '19	28 Feb '19
1113	**Back of House Works**	**85 days**	**11 Dec '18**	**23 Mar '19**
1114	Engineer's Workshop / Linen Room	75 days	11 Dec '18	12 Mar '19
1115	Chemical / Janitor's Room	75 days	22 Dec '18	23 Mar '19
1116	**Miscellaneous Ancillary Works**	**121 days**	**15 Aug '18**	**7 Jan '19**
1117	**M&E Ancillary Works @ Roof**	**70 days**	**30 Aug '18**	**20 Nov '18**
1118	LV Switch Room	60 days	11 Sep '18	20 Nov '18
1119	Genset	30 days	30 Aug '18	3 Oct '18
1120	SR Toilet Exhaust	30 days	15 Sep '18	19 Oct '18
1121	Corridor Pressurisation	45 days	15 Sep '18	6 Nov '18
1122	SR Corridor PAHU	45 days	24 Sep '18	15 Nov '18
1123	Retail PAHU	45 days	24 Sep '18	15 Nov '18
1124	Transformer	45 days	15 Sep '18	6 Nov '18
1125	Chiller Plant & Control Room	65 days	1 Sep '18	16 Nov '18
1126	Cooling Tower	65 days	1 Sep '18	16 Nov '18
1127	Domestic Storage Tank	65 days	5 Sep '18	20 Nov '18
1128	Newater Storage Tank	65 days	5 Sep '18	20 Nov '18
1129	**Permanent Power**	**82 days**	**15 Aug '18**	**20 Nov '18**
1130	PG Inspection	18 days	15 Aug '18	5 Sep '18
1131	ESS Handover	0 days	5 Sep '18	5 Sep '18
1132	Power Turn-On	0 days	20 Nov '18	20 Nov '18
1133	**MDF Room**	**44 days**	**28 Sep '18**	**20 Nov '18**
1134	MDF Room Handover to Service Provider	0 days	28 Sep '18	28 Sep '18
1135	TAS / SCV Riser Handover	1 day	29 Sep '18	29 Sep '18
1136	Inspection	1 day	15 Oct '18	15 Oct '18

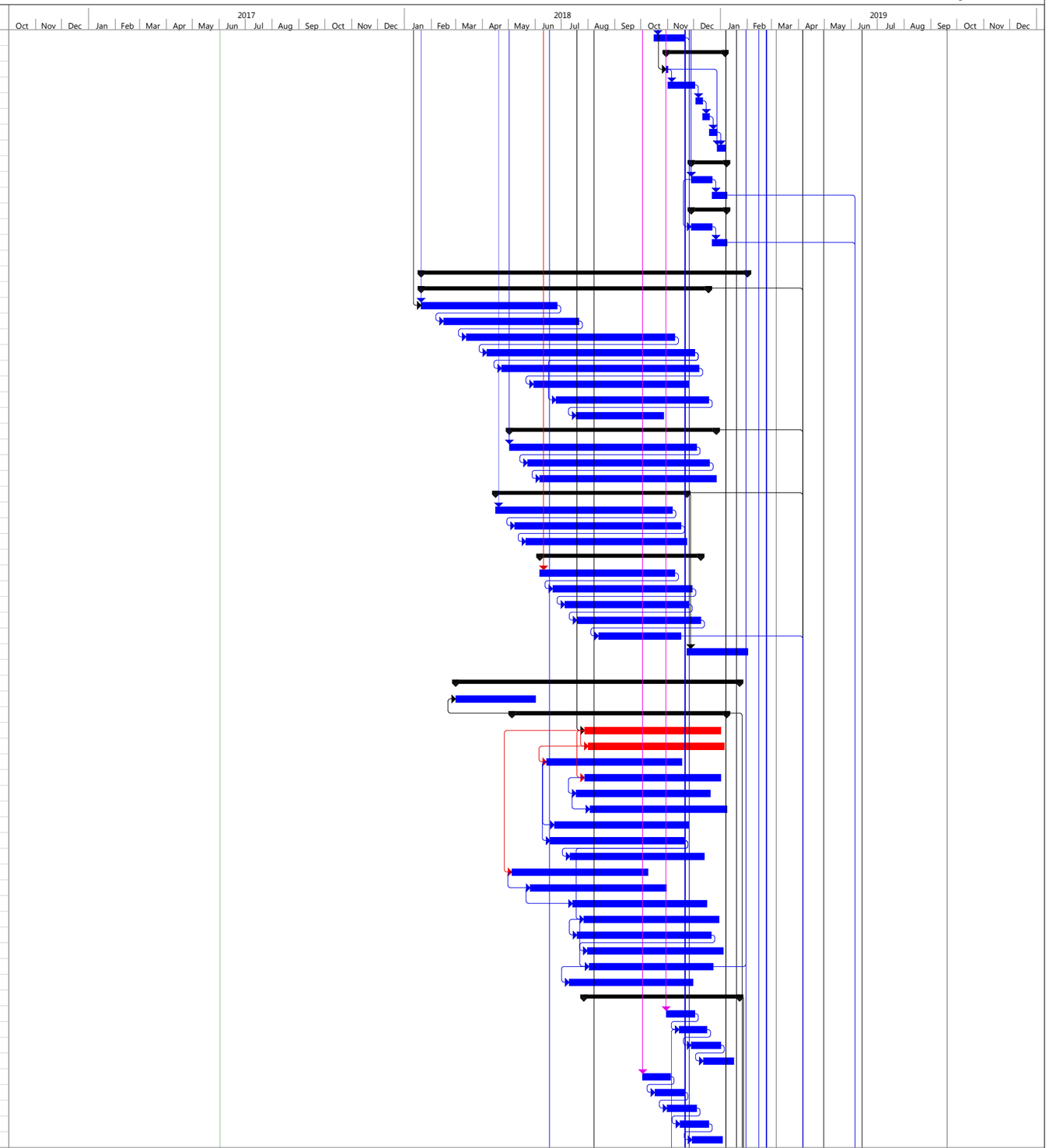


Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
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ID	Task Name	Duration	Start	Finish
1137	Cable Readiness Approval	30 days	16 Oct '18	20 Nov '18
1138	**Sewerage Department**	**56 days**	**30 Oct '18**	**5 Jan '19**
1139	Minor Sewer Inspection	2 days	30 Oct '18	31 Oct '18
1140	In-house Inspection	26 days	1 Nov '18	1 Dec '18
1141	Consultant Inspection	7 days	3 Dec '18	10 Dec '18
1142	QP submit Cert. of Supervision & Application of Sewerage wrks Insptn	7 days	11 Dec '18	18 Dec '18
1143	Inspection or NO inspection by SEW Department	7 days	19 Dec '18	27 Dec '18
1144	Certificate of Approval	7 days	28 Dec '18	5 Jan '19
1145	**Water Supply**	**33 days**	**28 Nov '18**	**7 Jan '19**
1146	PUB Water Service Inspection	21 days	28 Nov '18	21 Dec '18
1147	Water Turn-On	12 days	22 Dec '18	7 Jan '19
1148	**Gas Supply**	**33 days**	**28 Nov '18**	**7 Jan '19**
1149	City Gas Inspection	21 days	28 Nov '18	21 Dec '18
1150	City Gas Clearance	12 days	22 Dec '18	7 Jan '19
1151				
1152	**4C. Façade Works**	**312 days**	**20 Jan '18**	**31 Jan '19**
1153	**Podium Façade (L1 to L5)**	**275 days**	**20 Jan '18**	**17 Dec '18**
1154	External Plastering Works	128 days	20 Jan '18	25 Jun '18
1155	Painting Works	128 days	15 Feb '18	20 Jul '18
1156	Aluminium Cladding	200 days	13 Mar '18	8 Nov '18
1157	Aluminium Perforated Panels	200 days	6 Apr '18	1 Dec '18
1158	Precast Concrete Panels	190 days	23 Apr '18	6 Dec '18
1159	Façade Lightings	150 days	30 May '18	24 Nov '18
1160	Glass Canopy	148 days	25 Jun '18	17 Dec '18
1161	Sky Light	85 days	18 Jul '18	26 Oct '18
1162	**North Office Tower Façade (L5 to Roof)**	**199 days**	**2 May '18**	**26 Dec '18**
1163	Unitised Façade Panels	180 days	2 May '18	3 Dec '18
1164	Aluminium Lourves	175 days	23 May '18	18 Dec '18
1165	Extruded Aluminium Lightbox	170 days	6 Jun '18	26 Dec '18
1166	**South Office Tower Façade (L5 to Roof)**	**184 days**	**16 Apr '18**	**22 Nov '18**
1167	Unitised Façade Panels	170 days	16 Apr '18	5 Nov '18
1168	Aluminium Lourves	160 days	8 May '18	15 Nov '18
1169	Extruded Aluminium Lightbox	155 days	21 May '18	22 Nov '18
1170	**Serviced Apartment Façade (L5 to Roof)**	**156 days**	**6 Jun '18**	**8 Dec '18**
1171	Aluminium Window Frame & Glass	130 days	6 Jun '18	8 Nov '18
1172	Aluminium Cladding	135 days	21 Jun '18	28 Nov '18
1173	External Plastering Works	120 days	5 Jul '18	24 Nov '18
1174	Painting Works	120 days	19 Jul '18	8 Dec '18
1175	GFRC Cladding	80 days	13 Aug '18	15 Nov '18
1176	**Other Touch Up Works & Cleaning Works**	**58 days**	**23 Nov '18**	**31 Jan '19**
1177				
1178	**5. Lifts / Escalators Installation**	**272 days**	**1 Mar '18**	**22 Jan '19**
1179	Lift Car Mock Up (Off Site)	76 days	1 Mar '18	31 May '18
1180	**Lifts Installation & T&C (Note: PL8 to follow UPN Schedule)**	**205 days**	**5 May '18**	**7 Jan '19**
1181	FL 1 - B4 to Roof (Retail Service)	130 days	28 Jul '18	31 Dec '18
1182	FL 2 - B4 to Roof (Carpark/Retail)	130 days	1 Aug '18	4 Jan '19
1183	FL 3 - B4 to Roof (SR Service)	130 days	14 Jun '18	16 Nov '18
1184	FL 4 - B4 to Roof (SR Service/Fire/EVAC)	130 days	28 Jul '18	31 Dec '18
1185	FL 5 - B4 to L12 (Office Service)	130 days	18 Jul '18	19 Dec '18
1186	FL 6 - B4 to Roof (Retail Service)	130 days	3 Aug '18	7 Jan '19
1187	PL 1, PL 2, PL 3, PL 4 - L1 to Roof (Office Passenger/Handicap) With LMR	130 days	23 Jun '18	24 Nov '18
1188	PL 14 - L1 to L4 (SR Passenger/Handicap)	130 days	18 Jun '18	19 Nov '18
1189	PL 15 & PL 16 - L4 to Roof (SR Passenger/Handicap)	130 days	11 Jul '18	12 Dec '18
1190	PL 17 - L1 to L2 (Retail Passenger/Handicap)	130 days	5 May '18	8 Oct '18
1191	PL 18 - B2 to L2 (Retail Passenger/Handicap)	130 days	26 May '18	29 Oct '18
1192	GL1 - B1 to L4	130 days	14 Jul '18	15 Dec '18
1193	PL 5 & PL 6 - B4 to L8 (Carpark/Retail/Office Handicap) With LMR	130 days	27 Jul '18	29 Dec '18
1194	PL 7 - B4 to L5 (Carpark/Retail Handicap)	130 days	19 Jul '18	20 Dec '18
1195	PL 12 & PL 13 - B4 to L4 (Carpark/SR/Retail/Office Handicap)	130 days	31 Jul '18	3 Jan '19
1196	SL 1 - B4 to L4 (Retail Service), PL19 - 2M, 3rd, 3M Retail @ TOL)	120 days	2 Aug '18	22 Dec '18
1197	PL 8, PL 9, PL 10, PL 11 - L1 to Roof (Office Passenger/Handicap) With LMR	120 days	10 Jul '18	29 Nov '18
1198	**Escalators Installation (Phase 1)**	**149 days**	**27 Jul '18**	**22 Jan '19**
1199	E1 & E2 - Bsmt 4 to Bsmt 3	28 days	30 Oct '18	1 Dec '18
1200	E3 & E4 - Bsmt 3 to Bsmt 2	28 days	14 Nov '18	15 Dec '18
1201	E5 & E6 - Bsmt 2 to Bsmt 1	28 days	28 Nov '18	31 Dec '18
1202	E13 & E14 - Bsmt 1 to L1	28 days	12 Dec '18	15 Jan '19
1203	E35 & E36 - L3 to L4	28 days	3 Oct '18	3 Nov '18
1204	E25 & E26 - L2 to L3	28 days	17 Oct '18	19 Nov '18
1205	E23 & E24 - L1 to L2	28 days	31 Oct '18	3 Dec '18
1206	E9 & E10 - Bsmt 2 to Bsmt 1	28 days	15 Nov '18	17 Dec '18
1207	E11 & E12 - Bsmt 1 to L1	28 days	29 Nov '18	2 Jan '19

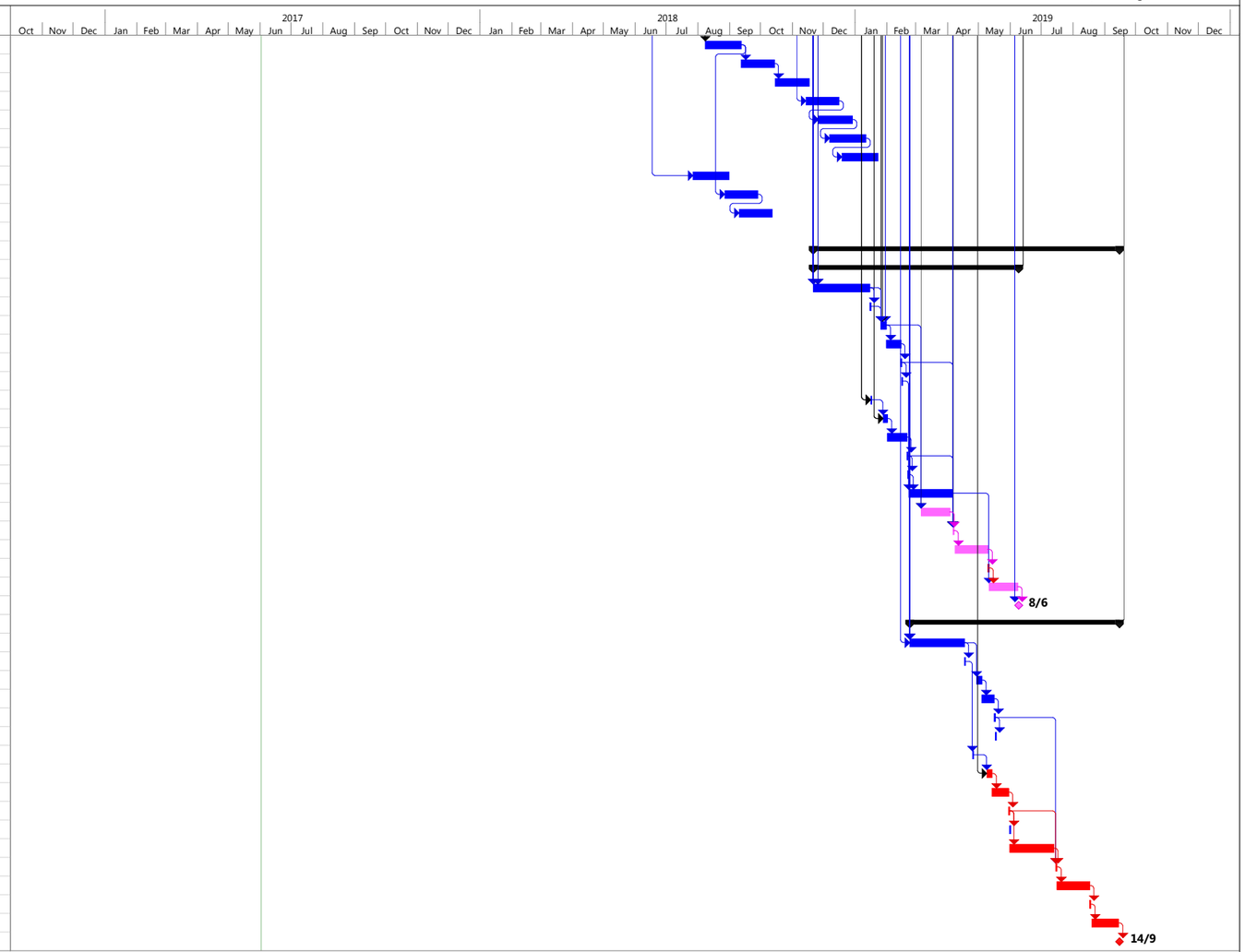


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ID	Task Name	Duration	Start	Finish
1208	E15 & E16 - Bsmt 1 to L1	28 days	8 Aug '18	11 Sep '18
1209	E17 & E18 - L1 to L2	28 days	12 Sep '18	13 Oct '18
1210	E21 & E22 - L1 to L2	28 days	15 Oct '18	16 Nov '18
1211	E37 & E38 - L4 to L5	28 days	14 Nov '18	15 Dec '18
1212	E33 & E34 - L3 to L4	28 days	26 Nov '18	28 Dec '18
1213	E27 & E28 - L2 to L3	28 days	7 Dec '18	10 Jan '19
1214	E19 & E20 - L1 to L2	28 days	19 Dec '18	22 Jan '19
1215	E7 & E8 - Bsmt 2 to Bsmt 1	28 days	27 Jul '18	30 Aug '18
1216	E31 & E32 - L3 to L4	28 days	27 Aug '18	27 Sep '18
1217	E29 & E30 - L2 to L3	28 days	10 Sep '18	11 Oct '18
1218				
1219	**6. TOP (Phase 1 and 2)**	**247 days**	**21 Nov '18**	**14 Sep '19**
1220	**Temporary Occupation Permit Phase 1 (Basement/Retail/Carpark/Office)**	**165 days**	**21 Nov '18**	**8 Jun '19**
1221	M&E Intergrated Testing & Commissioning	45 days	21 Nov '18	14 Jan '19
1222	Pre M&E RI Inspection	1 day	15 Jan '19	15 Jan '19
1223	M&E RI Inspection	4 days	26 Jan '19	30 Jan '19
1224	M&E Rectification works	10 days	31 Jan '19	13 Feb '19
1225	M&E RI Final Inspection	1 day	14 Feb '19	14 Feb '19
1226	Form 2 Issuance (M&E)	1 day	15 Feb '19	15 Feb '19
1227	Pre Architectural RI Inspection	1 day	16 Jan '19	16 Jan '19
1228	Architectural RI Inspection	4 days	28 Jan '19	31 Jan '19
1229	Architectural Rectification Works	14 days	1 Feb '19	19 Feb '19
1230	Architectural RI Final Inspection	1 day	20 Feb '19	20 Feb '19
1231	Form 2 Issuance (Archi)	1 day	21 Feb '19	21 Feb '19
1232	TFP application and approval	36 days	22 Feb '19	4 Apr '19
1233	URA Inspection	24 days	6 Mar '19	2 Apr '19
1234	BCA TOP / Green Mark Inspection (1st)	1 day	6 Apr '19	6 Apr '19
1235	BCA TOP / Green Mark Rectifications	26 days	8 Apr '19	9 May '19
1236	BCA TOP / Green Mark Inspection (2nd)	1 day	10 May '19	10 May '19
1237	TOP lodgement and approval	23 days	11 May '19	7 Jun '19
1238	TOP obtained	1 day	8 Jun '19	8 Jun '19
1239	**Temporary Occupation Permit Phase 2 (Serviced Residence)**	**170 days**	**23 Feb '19**	**14 Sep '19**
1240	M&E Final Testing & Commissioning	45 days	23 Feb '19	16 Apr '19
1241	Pre M&E RI Inspection	1 day	17 Apr '19	17 Apr '19
1242	M&E RI Inspection	4 days	29 Apr '19	3 May '19
1243	M&E Rectification works	10 days	4 May '19	15 May '19
1244	M&E RI Final Inspection	1 day	16 May '19	16 May '19
1245	Form 2 Issuance (M&E)	1 day	17 May '19	17 May '19
1246	Pre Architectural RI Inspection	1 day	25 Apr '19	25 Apr '19
1247	Architectural RI Inspection	4 days	9 May '19	13 May '19
1248	Architectural Rectification Works	14 days	14 May '19	29 May '19
1249	Architectural RI Final Inspection	1 day	30 May '19	30 May '19
1250	Form 2 Issuance (Archi)	1 day	31 May '19	31 May '19
1251	TFP application and approval	36 days	31 May '19	12 Jul '19
1252	BCA TOP / Green Mark Inspection (1st)	1 day	15 Jul '19	15 Jul '19
1253	BCA TOP / Green Mark Rectifications	26 days	16 Jul '19	16 Aug '19
1254	BCA TOP / Green Mark Inspection (2nd)	1 day	17 Aug '19	17 Aug '19
1255	TOP lodgement and approval	23 days	19 Aug '19	13 Sep '19
1256	TOP obtained	1 day	14 Sep '19	14 Sep '19



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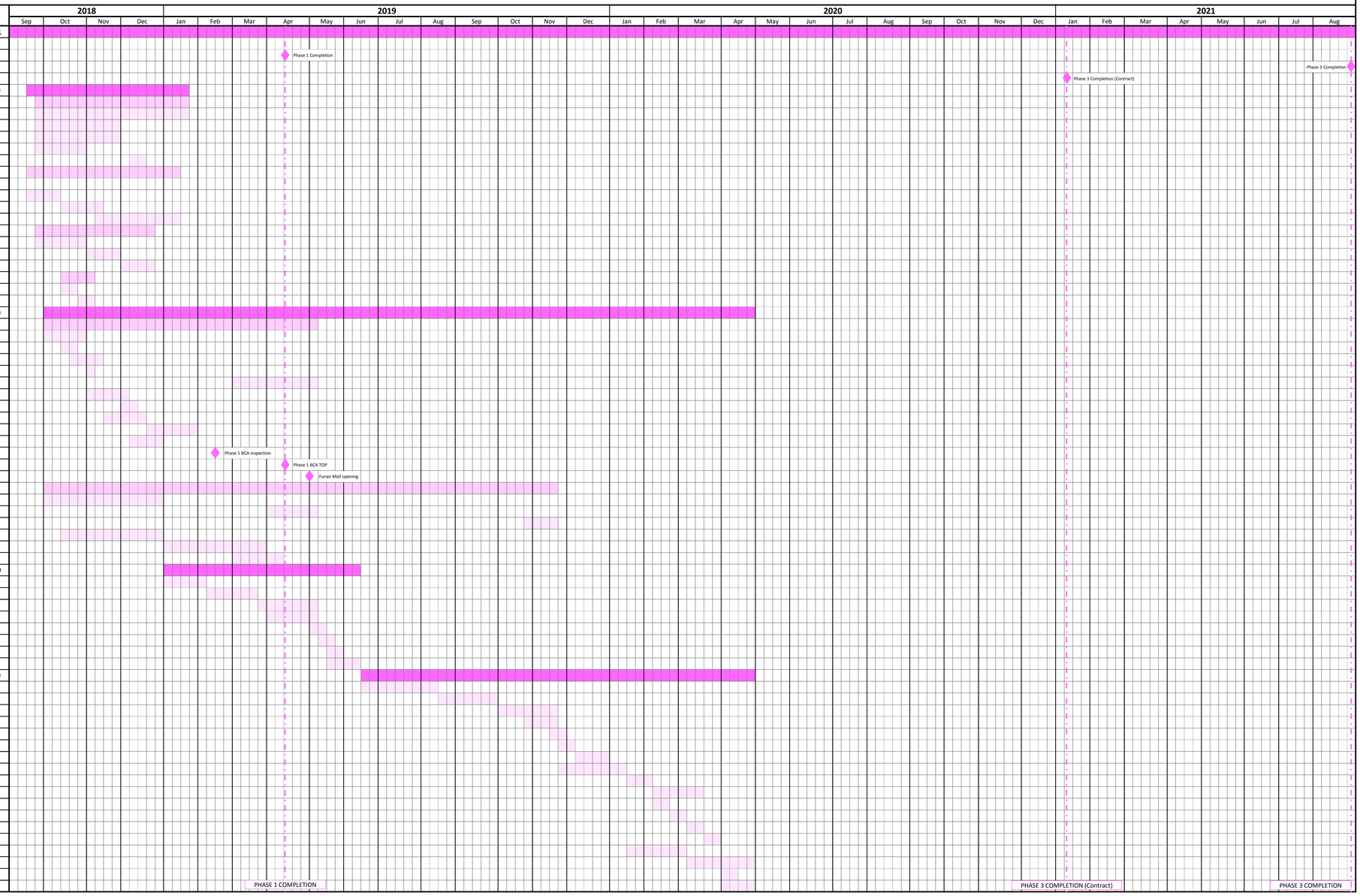
WOH HUP - OBAYASHI JOINT VENTURE
(FUNAN)

FUNAN REDEVELOPMENT

PHASE 3 - UPL Programe (3m Shifting Scheme + Capitol sequence changed)

21-Jan-2019
UPL Master Programme rev 7

ID	TASKS	Duration	Target Start	Target Finish
1	**1. Key Milestones Dates**	**1688 days**	**16-Jan-17**	**30-Aug-21**
2	Constract Commencement Date	1 days	16-Jan-17	16-Jan-17
3	Phase 1 Completion	1 days	9-Apr-19	9-Apr-19
4	Phase 3 Completion	1 days	30-Aug-21	30-Aug-21
5	Phase 3 Completion (Contract)	1 days	10-Jan-21	10-Jan-21
6	**2. Stage 0 Funan / Adelphi**	**133 days**	**17-Sep-18**	**27-Jan-19**
7	**2.1. Authorities Approval**	**126 days**	**24-Sep-18**	**27-Jan-19**
8	URA/SLA Approval	126 days	24-Sep-18	27-Jan-19
9	BCA Launching Shaft Amendment	70 days	24-Sep-18	2-Dec-18
10	BCA Temporary Decking Approval	70 days	24-Sep-18	2-Dec-18
11	LTA Traffic Diversion 2+2, 1+3	42 days	24-Sep-18	4-Nov-18
12	BCA Temporary TOP application (2+2)	14 days	10-Dec-18	23-Dec-18
13	**2.2. Utilities support**	**126 days**	**17-Sep-18**	**20-Jan-19**
14	PUB Clearance (Water+gas)	1 days	7-Oct-18	7-Oct-18
15	Trial holes	28 days	17-Sep-18	14-Oct-18
16	Hanging steel design & fabrication	35 days	15-Oct-18	18-Nov-18
17	Micropile and steel Installation	70 days	12-Nov-18	20-Jan-19
18	**2.3. Instrumentation**	**98 days**	**24-Sep-18**	**30-Dec-18**
19	Installation (GL Q to V)	42 days	24-Sep-18	4-Nov-18
20	Installation (GL V to Y)	28 days	5-Nov-18	2-Dec-18
21	Installation (GL Y to AB)	28 days	3-Dec-18	30-Dec-18
22	**2.4. Ground Anchor Detection**	**28 days**	**15-Oct-18**	**11-Nov-18**
23	Drill hole on lane 3, 20 nos	14 days	15-Oct-18	28-Oct-18
24	Magnetic logging 20 points	14 days	29-Oct-18	11-Nov-18
25	**3. Stage 1 Funan/Adelphi Area Construction**	**581 days**	**1-Oct-18**	**3-May-20**
26	**3.1. Existing Launching Shaft Area**	**224 days**	**1-Oct-18**	**12-May-19**
27	Demobilize & Jacking unit removal	35 days	1-Oct-18	4-Nov-18
28	Gantry Demobilize	10 days	13-Oct-18	22-Oct-18
29	Temporary structure hacking	28 days	22-Oct-18	18-Nov-18
30	Temporary decking removal	7 days	5-Nov-18	11-Nov-18
31	Tunnel eye hacking (to salvage)	70 days	4-Mar-19	12-May-19
32	New stamp/wall, Roof slab, Beam, gantry beam	35 days	5-Nov-18	9-Dec-18
33	Metro deck	14 days	3-Dec-18	16-Dec-18
34	PUB drain, Water proof, Backfill	35 days	19-Nov-18	23-Dec-18
35	Roadside finishings, Ingress	42 days	24-Dec-18	3-Feb-19
36	Traffic Diversion Stage 1 to Stage 2 (0+4 to 2+2)	28 days	10-Dec-18	6-Jan-19
37	Phase 1 BCA inspection	1 days	15-Feb-19	15-Feb-19
38	Phase 1 BCA TOP	1 days	9-Apr-19	9-Apr-19
39	Funan Mall opening	1 days	1-May-19	1-May-19
40	**3.2. Underground services diversion**	**420 days**	**1-Oct-18**	**24-Nov-19**
41	Application for Singtel diversion at Adelphi	98 days	1-Oct-18	6-Jan-19
42	Singtel diversion works preparation on site	42 days	1-Apr-19	12-May-19
43	Singtel diversion works shifting on site	28 days	28-Oct-19	24-Nov-19
44	Application for Gas/Water pipe diversion	84 days	15-Oct-18	6-Jan-19
45	Gas/Water pipe diversion works on site	84 days	7-Jan-19	31-Mar-19
46	Starhub/Superloop diversion works on site	42 days	4-Mar-19	14-Apr-19
47	**4. Stage 2 Funan/Adelphi Area Construction (2+2 area)**	**161 days**	**7-Jan-19**	**16-Jun-19**
48	CBP D1200: 7 piles , D900, 11 piles	35 days	7-Jan-19	10-Feb-19
49	JGP D1200: 455 piles	42 days	11-Feb-19	24-Mar-19
50	Excavation, RC roof, gantry beam, stamp/wall	49 days	25-Mar-19	12-May-19
51	Preparation for Singtel diversion	42 days	1-Apr-19	12-May-19
52	Waterproof on roof	14 days	6-May-19	19-May-19
53	Metro deck + Backfill	14 days	13-May-19	26-May-19
54	BCA Temporary TOP application (4+0)	14 days	20-May-19	2-Jun-19
55	Trafice Diversion Stage 2 to Stage 3 (2+2 to 4+0)	28 days	20-May-19	16-Jun-19
56	**5. Stage 2 Funan/Adelphi Area Construction (4+0 area)**	**322 days**	**17-Jun-19**	**3-May-20**
57	CBP D1200: 8 piles, D900: 55 piles	63 days	17-Jun-19	18-Aug-19
58	JGP 136 piles	49 days	19-Aug-19	6-Oct-19
59	Excavation, RC roof, stamp/wall	49 days	7-Oct-19	24-Nov-19
60	Singtel diversion	28 days	28-Oct-19	24-Nov-19
61	Waterproof on roof + Backfill	14 days	18-Nov-19	1-Dec-19
62	Metro deck	14 days	25-Nov-19	8-Dec-19
63	Pile 1.5m hacking	28 days	9-Dec-19	5-Jan-20
64	Excavation & Raft Construction	56 days	25-Nov-19	19-Jan-20
65	CBP hacking (H8m, 22 piles) for launching shaft	21 days	20-Jan-20	9-Feb-20
66	Tunnel eye setting and casting	42 days	10-Feb-20	22-Mar-20
67	Wall (H8m, 140m2) at New launching shaft area	14 days	10-Feb-20	23-Feb-20
68	Back up equipment delivery for tunneling	14 days	24-Feb-20	8-Mar-20
69	Temporary opening 2nos cast back	14 days	9-Mar-20	22-Mar-20
70	Waterproof on remaining area	14 days	23-Mar-20	5-Apr-20
71	Adelphi Connection structure	49 days	20-Jan-20	8-Mar-20
72	Adelphi Connection Opening	56 days	9-Mar-20	3-May-20
73	BCA Temporary TOP application (1+3)	14 days	6-Apr-20	19-Apr-20
74	Traffic Diversion Stage 3 to Stage 4 (4+0 to 1+3)	28 days	6-Apr-20	3-May-20



WOH HUP - OBAYASHI JOINT VENTURE
(FUNAN)

FUNAN REDEVELOPMENT

PHASE 3 - UPL Programe (3m Shifting Scheme + Capitol sequence changed)

21-Jan-2019
UPL Master Programme rev 7

ID	TASKS	Duration	Target Start	Target Finish
75	**6. Stage 4 Funan/Adelphi/Tunnel**	**483 days**	**4-May-20**	**29-Aug-21**
76	**6.1. Tunnelling**	**287 days**	**4-May-20**	**14-Feb-21**
77	Deck removal + column casting for Gantry crane	7 days	4-May-20	10-May-20
78	Gantry crane erection	7 days	4-May-20	10-May-20
79	TBM setting, T&C	42 days	11-May-20	21-Jun-20
80	Tunnel eye hacking	21 days	1-Jun-20	21-Jun-20
81	Tunnel drive	154 days	22-Jun-20	22-Nov-20
82	TBM retrieval	42 days	23-Nov-20	3-Jan-21
83	Gantry crance demobilize	7 days	28-Dec-20	3-Jan-21
84	Tunnel cast in situ, replacement grout	28 days	4-Jan-21	31-Jan-21
85	Tunnel inside slab casting	14 days	1-Feb-21	14-Feb-21
86	**6.2. Funan structure**	**112 days**	**4-Jan-21**	**25-Apr-21**
87	B2 Temporary structure hacking & removal	42 days	4-Jan-21	14-Feb-21
88	B2 slab (FW200m2, RB 5t, Con 30m3)	14 days	1-Feb-21	14-Feb-21
89	Basement wall (FW 400m2, RB 36t, Con 120m3)	14 days	15-Feb-21	28-Feb-21
90	Launching shaft roof slab (FW 132m2, RB 20t, Con 66m3)	14 days	1-Mar-21	14-Mar-21
91	Pile 1.5m, Temporary struct hacking	14 days	15-Mar-21	28-Mar-21
92	Waterproof on roof	14 days	22-Mar-21	4-Apr-21
93	BCA Temporary TOP application (4+0)	14 days	29-Mar-21	11-Apr-21
94	Traffic Diversion Stage 4 to Stage 5 (1+3 to 4+0)	28 days	29-Mar-21	25-Apr-21
95	**7. Stage 5 Funan/Adelphi Area Construction**	**224 days**	**18-Jan-21**	**29-Aug-21**
96	Deck removal	7 days	26-Apr-21	2-May-21
97	Remaining pop out structure	21 days	3-May-21	23-May-21
98	Escalator/Lift delivery	14 days	18-Jan-21	31-Jan-21
99	Escalator installation	56 days	15-Mar-21	9-May-21
100	M&E and Finishing works	126 days	15-Mar-21	18-Jul-21
101	Lift installation	56 days	24-May-21	18-Jul-21
102	Inspections	28 days	2-Aug-21	29-Aug-21
103	**8. Capitol Area Construction**	**1065 days**	**1-Oct-18**	**30-Aug-21**
104	**8.1. Authority Approval**	**448 days**	**1-Oct-18**	**22-Dec-19**
105	Capitol BCA structure amendment	84 days	1-Oct-18	23-Dec-18
106	Application for Capitol Powergas clearance	126 days	15-Oct-18	17-Feb-19
107	Capitol Powergas support/protection (TBC) part 1	56 days	25-Mar-19	19-May-19
108	Capitol Powergas support/protection (TBC) part 2	56 days	15-Jul-19	8-Sep-19
109	Capitol Decking and Night 2 lane closure for JGP	42 days	15-Oct-18	25-Nov-18
110	Capitol Decking and Night 2 lane closure for JGP+RC	56 days	5-Nov-18	30-Dec-18
111	Capitol BCA Temporary TOP for decking	14 days	11-Mar-19	24-Mar-19
112	Capitol BCA Temporary TOP for RC roof	14 days	9-Dec-19	22-Dec-19
113	**8.2. Micropile / Decking / JGP (Daytime)**	**350 days**	**15-Oct-18**	**29-Sep-19**
114	Micropile 68 + Soft 52 piles	77 days	15-Oct-18	30-Dec-18
115	Traffic Diversion Ph2 to Ph2A	7 days	31-Dec-18	6-Jan-19
116	Micropile 5 piles	14 days	7-Jan-19	20-Jan-19
117	Traffic Diversion Ph2A to Ph2B	7 days	21-Jan-19	27-Jan-19
118	Micropile 9 piles	21 days	28-Jan-19	17-Feb-19
119	King post for decking 10 nos (TBC)	7 days	18-Feb-19	24-Feb-19
120	Decking at Capitol area	42 days	11-Feb-19	24-Mar-19
121	JGP 121 piles	56 days	25-Mar-19	19-May-19
122	Traffic Diversion Ph2B to Ph2A	7 days	20-May-19	26-May-19
123	JGP 56 piles	28 days	27-May-19	23-Jun-19
124	Traffic Diversion Ph2A to Ph2	7 days	24-Jun-19	30-Jun-19
125	JGP 137 piles	70 days	1-Jul-19	8-Sep-19
126	Traffic Diversion Ph2B to Ph2 + F1	14 days	16-Sep-19	29-Sep-19
127	**8.3. Micropile / Decking / JGP (Nighttime)**	**329 days**	**5-Nov-18**	**29-Sep-19**
128	Micropile 33 piles	56 days	5-Nov-18	30-Dec-18
129	Micropile 5 piles	14 days	7-Jan-19	20-Jan-19
130	Micropile 14 piles	28 days	28-Jan-19	24-Feb-19
131	JGP 66 piles	84 days	11-Mar-19	2-Jun-19
132	Partial deck removal	7 days	3-Jun-19	9-Jun-19
133	JGP 90 piles	105 days	3-Jun-19	15-Sep-19
134	JGP 42 piles	56 days	11-Mar-19	5-May-19
135	Partial deck removal	7 days	6-May-19	12-May-19
136	JGP 133 piles	133 days	6-May-19	15-Sep-19
137	Traffic Diversion Ph2B to Ph2 + F1	14 days	16-Sep-19	29-Sep-19
138	**8.3. Capitol Substructure**	**357 days**	**30-Sep-19**	**20-Sep-20**
139	Excavation, RC roof, Temporary wall	70 days	30-Sep-19	8-Dec-19
140	Waterproof on roof	28 days	2-Dec-19	29-Dec-19
141	Deck removal, Backfill, Road reinstate	28 days	30-Dec-19	26-Jan-20
142	Excavation, 1st strut	42 days	9-Dec-19	19-Jan-20
143	Excavation, 2nd strut	56 days	20-Jan-20	15-Mar-20
144	Excavation, Raft	49 days	16-Mar-20	3-May-20
145	Perimeter innner RC wall	42 days	4-May-20	14-Jun-20
146	Raker strut (TBA)	28 days	4-May-20	31-May-20
147	Removal of RC strut	28 days	15-Jun-20	12-Jul-20
148	Capitol connection opening (part 1)	42 days	13-Jul-20	23-Aug-20
149	Staircase structure partial (ground level)	56 days	13-Jul-20	6-Sep-20
150	Traffic Diversion Ph2 + F1	14 days	7-Sep-20	20-Sep-20
151	**8.4. Capitol Conection (After TBM)**	**281 days**	**23-Nov-20**	**30-Aug-21**
152	Hack micropile, Excavation, Roof connection Part 1 Peninsula	42 days	23-Nov-20	3-Jan-21
153	Bottom slab connection Peninsula	28 days	4-Jan-21	31-Jan-21
154	Tunnel opening at peninsula	28 days	1-Feb-21	28-Feb-21
155	Staircase struct at basement	42 days	4-Jan-21	14-Feb-21
156	Hack micropile, Excavation, Roof connection Part 2 Capitol	42 days	4-Jan-21	14-Feb-21
157	Capitol connection opening (part 2)	56 days	15-Feb-21	11-Apr-21
158	Bottom slab connection Capitol	28 days	15-Feb-21	14-Mar-21
159	Tunnel opening at Capitol	28 days	15-Mar-21	11-Apr-21
160	M&E and Finishing works	126 days	29-Mar-21	1-Aug-21
161	Inspections	28 days	2-Aug-21	29-Aug-21
162	Phase 3 BCA TOP	1 days	30-Aug-21	30-Aug-21



SECTION 4

PROGRAMME

4.2 Authority Submission Status for M&E Services – 1st Submission

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd	01/03/2016								01/06/2016
Power Supply Substation	SP PowerGrid Ltd	15/03/2016	15/03/2017							10/04/2017
MDF Room	TFCC	15/03/2016	26/04/2016							18/05/2017
Sanitary Installation	PUB Water Reclamation (Network) Dept	01/08/2017	19/08/2017							21/08/2017
Domestic Water Supply	PUB (Water Supply) Network Dept	03/07/2017	04/07/2017	22/10/2017	11/10/2017					
Gas Supply Installation	City Gas Pte Ltd	01/08/2017	19/09/2017	19/10/2017	06/10/2017					
Air Conditioning & Ventilation Inst.	FSSD	02/05/2018								
Fire Fighting & Alarm Installation	FSSD	15/05/2018								
Emergency Voice Communication	FSSD	15/04/2018								
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision	-								
Fuel Storage	FSSD	15/04/2018								
Ejector Pump	CBPU-NEA	30/11/2017								

SECTION 4

PROGRAMME

4.3 Authority Submission Status for M&E Services (Amendments) - 2nd Submission – NOT APPLICABLE

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd									
Power Supply Substation	SP PowerGrid Ltd									
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept									
Domestic Water Supply	PUB (Water Supply) Network Dept									
Gas Supply Installation	City Gas Pte Ltd									
Air Conditioning & Ventilation Inst.	FSSD									
Fire Fighting & Alarm Installation	FSSD									
Telephone Installation	TFCC									
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 5

PROJECT RECORDS

5.1 List of Internal Files

Standard Files

File Ref:		File Ref:	
- Owner	✓	- Architect	✓
- Authorities	✓	- Other Consultants	
- Contractors	✓	- CC	
- CF	✓	- PQP/QSP	✓

Project Files to be initiated by PM as and when required

File Ref:		File Ref:		File Ref:	

(✓*where applicable*)

SECTION 5

PROJECT RECORDS

5.2 Filing of Drawings

The following team members shall take charge of filing of drawings, stamping "SUPERSEDED" drawings, etc.

Description	Team Member
Incoming Architectural Floor Plans	CM
Incoming Architectural Sketches/Details	CM
Incoming Structural Drawings	CM
M&E Drawings	
- Electrical Installation	RBS
- Lift & Escalator Installation	RBS
- Air Conditioning & Ventilation Installation	CM
- Fire Fighting & Alarm Installation	CM
- Plumbing & Sanitary Installation	CM
- Swimming Pool & Filtration Installation	CM
Other Drawings	
- Drawings in Softcopy	Server

SECTION 6

INTERFACING

6.1 Method of Interface

Description	Method of Interface	
Client's Review & Approval	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface With External Design Teams	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface Between Internal Design Teams	Telephone	✓
	Email	✓
	Internal Project Team Meeting	✓
	Circulation of Information	✓

(✓ *where applicable*)

SECTION 6

INTERFACING

6.2 Internal Design Interface

Item No.	Description*	Required From	Required By	Date Required	Remarks
1	Mechanical schematic design	CKH, CM, TEL	CCG	15 Mar 2016	
2	Electrical schematic design	LYM	GSH	15 Mar 2016	
3	Mechanical detail design	CKH, CM, TEL	CCG	15 Jul 2016	
4	Electrical detail design	LYM	GSH	15 Jul 2016	
5	Mechanical tender documentation	CKH, CM, TEL	CCG	15 Aug 2016	
6	Electrical tender documentation	LYM	GSH	15 Aug 2016	

** Information required by INTERNAL DESIGN TEAM MEMBERS*

SECTION 6

INTERFACING

6.3 Circulation of Documents to External Parties

	Code: A - Approval Required C - For Comments I - For Information Only	Client/ Client Rep.	Client's Project Manager	Architect	Structural Engineer	Quantity Surveyor	
1.	**Letters/Fax:**						
a.	Project Design	A	A	C	I	I	
b.	Project Administration	A	A	C	I	I	
c.	Project Cost Estimate/Contract Cost	A	A	-	-	I	
2.	**Drawings**						
a.	Outline Design Drgs.	C	C	C	I	I	
b.	Sketch Design Drgs.	C	C	C	I	I	
c.	Final Design Drgs.	A	A	C	I	I	
d.	Shop Drawings	I	I	I	I	-	
e.	As Built Drgs.	I	I	I	I	-	
3.	**Other Document**						
a.	Specification	C	C	I	I	I	
b.	Tender Document	A	A	I	I	I	
c.	Tender Evaluation Report	A	A	I	I	I	
d.	Design Report	A	A	I	-	-	
e.	Progress Report	A	A	I	I	I	
f.	Financial Report	A	A	I	I	C	
g.	Minutes of Meeting	I	I	I	I	I	
h.	Inspection Report	I	I	I	-	-	
i.	Testing & Comm. Report	I	I	I	-	-	
j.	O & M Manual	I	I	I	-	-	

SECTION 7

WORK AUTHORISATION

Activity \ Authorised Signatories	PD	QP	PM	AE	SS
General Correspondences with Client	✓	✓	✓	✓	
General Correspondences with Other Consultants	✓	✓	✓	✓	
M&E Cost Estimate Report	✓	✓	✓		
M&E Design Report	✓	✓	✓		
Check Prints	✓	✓	✓	✓	
Tender Drawing Approval	✓	✓	✓		
Tender Specification Approval	✓	✓	✓		
List of Tenderers	✓	✓	✓		
Tender Questionnaires	✓	✓	✓		
Tender Reports	✓	✓	✓		
Draft Letter of Award	✓	✓	✓		
Review of Contractor's Shop Drawing	✓	✓	✓	✓	
Review of Contractor's Technical Submittal	✓	✓	✓	✓	
Review of Contractor's Sample Submittal	✓	✓	✓	✓	
Contractor's Request for Deviation	✓	✓	✓		
Progress Payment Valuation Form	✓	✓	✓		
Final Account Valuation	✓	✓	✓		
Draft Variation Order	✓	✓	✓		
Engineer/Architect's Instruction/Direction	✓	✓	✓		
Site Instruction/Direction	✓	✓	✓		✓
Correspondence/Submission to Authorities	✓	✓	✓		

(✓*where authorised*)

Key to abbreviations:-

PD : Project Director
QP : Qualified Person
PM : Project Manager/Assistant Project Manager
AE : Assistant Engineer
SS : ACEPL Site Staff

SECTION 8

DESIGN INPUT & METHODOLOGY

8.1 List of Client's Standards, Reference Documents or Brief

ITEM	KEPT BY
M&E Design Guidelines for Shopping Mall (Rev. 2)	S:\Project\6221-Funan\Design\Owner-Design-Brief
M&E Design Guidelines for Office	S:\Project\6221-Funan\Design\Owner-Design-Brief
M&E Design Guidelines for Service Apartment	S:\Project\6221-Funan\Design\Owner-Design-Brief

8.2 List of Applicable Code of Practice and Regulations

Services	Title of Code of Practice/Standard
Electrical Wiring	Singapore Standard CP 5: 1998 Code of Practice for Electrical Installations
Lightning Protection System	Singapore Standard SS 555: 2010 Code of Practice for Protection against Lightning
Emergency Voice Communication System	Singapore Standard CP 546: 2009 Code of Practice for Emergency Voice Communication Systems in Buildings
Air Conditioning & Ventilation Installation	Singapore Standard CP 553: 2009 Code of Practice for Air-conditioning and Mechanical Ventilation in Buildings
Lift & Escalator Installation	Singapore Standard CP 550: 2009 Code of Practice for Installation, Operation and Maintenance of Electric Passenger and Goods Lifts
Sprinkler System	Singapore Standard CP 52: 2004 Code of Practice for Automatic Fire Sprinkler System
Dry Riser System	Singapore Standard CP SS 575: 2012 Code of Practice for Fire Hydrant, Rising Mains and Hose Reel Systems
Automatic Fire Alarm System	Singapore Standard CP 10: 2005 Code of Practice for Installation and Servicing of Electrical Fire Alarm Systems
Sanitary System	Code of Practice on Sewerage & Sanitary Works
Plumbing System	Singapore Standard CP 48: 2005 Code of Practice for Water Services
Town Gas/LPG Supply System	Singapore Standard SS 608: 2015 Code of Practice for Gas Installation
Boiler and Steam Supply System	-
Mechanical Smoke Control System	Code of Practice for Fire Precautions in Building 2013

SECTION 8

DESIGN INPUT & METHODOLOGY

8.3 List of Design Guide or Handbook Used

Carrier's Handbook of Air Conditioning System Design

ASHRAE Handbooks

Institute of Plumbing's Plumbing Services Design Guide

8.4 List of Pre-Consultation and Waiver – NOT APPLICABLE

S/N	Description	Date of Application	Date of Approval	Remarks
1	*Clause number in Code of Practice for (Services) which require clarification or waiver. Consultation Ref No. Waiver Ref. No.			
2	*Clause number in Code of Practice for (Services) which require clarification or waiver. Consultation Ref No. Waiver Ref. No.			
3	*Clause number in Code of Practice for (Services) which require clarification or waiver. Consultation Ref No. Waiver Ref. No.			

*To fill in actual information

8.5 List of Applicable Quality System Procedures

Alpha Consulting Engineers Pte Ltd's Quality Management System Procedures

Section	Title	✓ where applicable
M1	Preparation of Consultancy Offer	✓
M2	Project Commissioning and Service Agreement	✓
M3	Design Control	✓
M4	Design Change Control	✓
M5	Tender Process and Evaluation	✓
M6	Authority Submission	✓
M7	Construction Process Control	✓
M8	Testing and Commissioning	✓
S1	Document Control	✓
S2	Documentation of Quality & Environmental Management System Procedure	✓
S3	Documentation of Project Quality Plan	✓
S4	Specification Control	
S5	Library Control	
S6	Archive Control	✓
S7	Filing Control	✓
S8	Drawing Control	✓
S9	Administration Control	✓
S10	Purchasing Control	
S11	Training Control	
S12	Computer Control	
S13	Non-Conformity and Corrective Action Procedures	✓
S14	Quality & Environmental System Audit	✓
S15	Feedback Reporting	✓
S16	Clients Feedback	✓
S17	Management Review	✓
S18	Risk Identification, Assessment & Control	✓

8.6 List of Software Used For Design/Analysis

DESCRIPTION/ PACKAGE NAME	VERSION	SUPPLIER/ SOURCE	PURPOSE	
Calculux	2.30	Philips	Lighting design	
Cophos	3.31	Zumtobel	Lighting design	
Carrier E20-II	3.21	Carrier	Programme for determination of heat load, duct size and its losses, etc.	✓
Gensize 2	2.1	Onan	Generator sizing	
Lift Traffic	-	Alpha Consulting Engineers Pte Ltd	Lift traffic calculation	
Econdial	2.5	Merlin Gerlin	Design for low voltage network	
Hyena	4.00.1	ACADS-BSG	Fire Sprinkler & Hydrant Analysis	
Fault Level Calculation	-	Alpha Consulting Engineers Pte Ltd	Calculation of voltage drop and fault level	✓
Dialux	4.11	Freeware	Lighting design	✓
Lift Traffic	7.18	Elevate	Lift traffic calculation	✓
Fault Level Calculation	11.1.1	ETAP	Calculation of fault level and voltage drop	✓

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features / Criteria

Item	Remarks
Green Mark criteria	Gold Plus
Green Design Features	-

9.2 Site PPE Requirement

The necessary Personal Protective Equipment (detailed below) shall be provided by the main contractor / Company in accordance to the site EHS requirements prior to the site monitoring.

PPE	✓ where applicable
Safety Helmet	✓
Safety Shoes	✓
Eye Protection	-
Ear Protection	-
Safety Harness / Belt	✓
Others:	

9.3 Site Emergency Preparedness

Site staff shall comply with the site emergency preparedness and response procedure, established by the main contractor / owner, which shall include the following details.

Items	✓ where applicable
Evacuation Route	✓
Emergency Exit	✓
Assembly Point	✓
Emergency Contact List / Person	✓
Alarm system / methods	✓

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.4 Reporting of Environmental Non-conformances

When encountering environmental non-conformances, Site Staff shall be responsible to feedback to the main contractor.

9.5 List of Applicable Environmental management system Procedures

Alpha Consulting Engineers Pte Ltd's Environmental Management System Procedures

Section	Title	✓ where applicable
E1	Aspect / Impact Identification, Risk Assessment & Risk Control	✓
E2	Identifying Legal & Other Requirements	✓
E3	Objectives, Targets & Programmes	✓
E4	Communication	✓
E5	Emergency Preparedness & Response	✓
E6	Monitoring & Measurement	✓
E7	Control of Air & Noise Pollution	✓
E8	Management of Wastes	✓

SECTION 10

CLIENT'S REQUIREMENTS

10.1 List of Output Required by Client:-

Item	* Remarks
M&E Design Report	A
M&E Cost Estimate Report	A
Pre-Qualification of Tenderers	A
Tender Documents	A
Tender Report	A
Payment Valuation for QS	A
Certificates of Supervision for TOP/CSC	Re

** Remarks*

A: for approval C: for comment I: for Information Re: for record

Other purposes and for action: please specify.

10.2 Specific Procedures Required By Client *(If applicable)*

NOT APPLICABLE

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers – NOT APPLICABLE

Sub Job No	Description	Allocation Details