Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

PUNGGOL RIPPLES

For

HOUSING & DEVELOPMENT BOARD

Copy No.	1

Prepared By: Yip Yoke Fun

Authorised By: Loh Fook Yuen

Date: 28 February 2012

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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	6109-PQP	28 February 2012

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	26 May 2010	1 to 11	28	+2 pgs (Section 4.1 – Overall Programme)
1	5 Jan 2011	1 to 11	28	+23 pgs (Section 4.1 – Overall Programme)
2	28 Feb 2012	1 to 11	28	+23 pgs (Section 4.1 – Overall Programme) +1 pg (Section 9.1 - Sustainable Design Features)

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Residential

Statistics of Development	
Site Area, m²	15000
Nett Floor Area, m²	-
Gross Floor Area, m²	45000
Covered Carpark, m²	155
No. of Covered Carpark Lots	197
No. of Apartments/Houses	472
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	-
No. of Blocks / No. of Storeys	4 Blocks of 16-Storey
No. of Phases	

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)										
Services	EI	ACVI	LEI	FFAI	PSI	SPFI				
Estimate	5.40	0.01	0.97	0.35	4.09	-				
Awarded	3.491	-	-	0.45	3.77					

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate			68.8
Awarded		Included	59.33

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

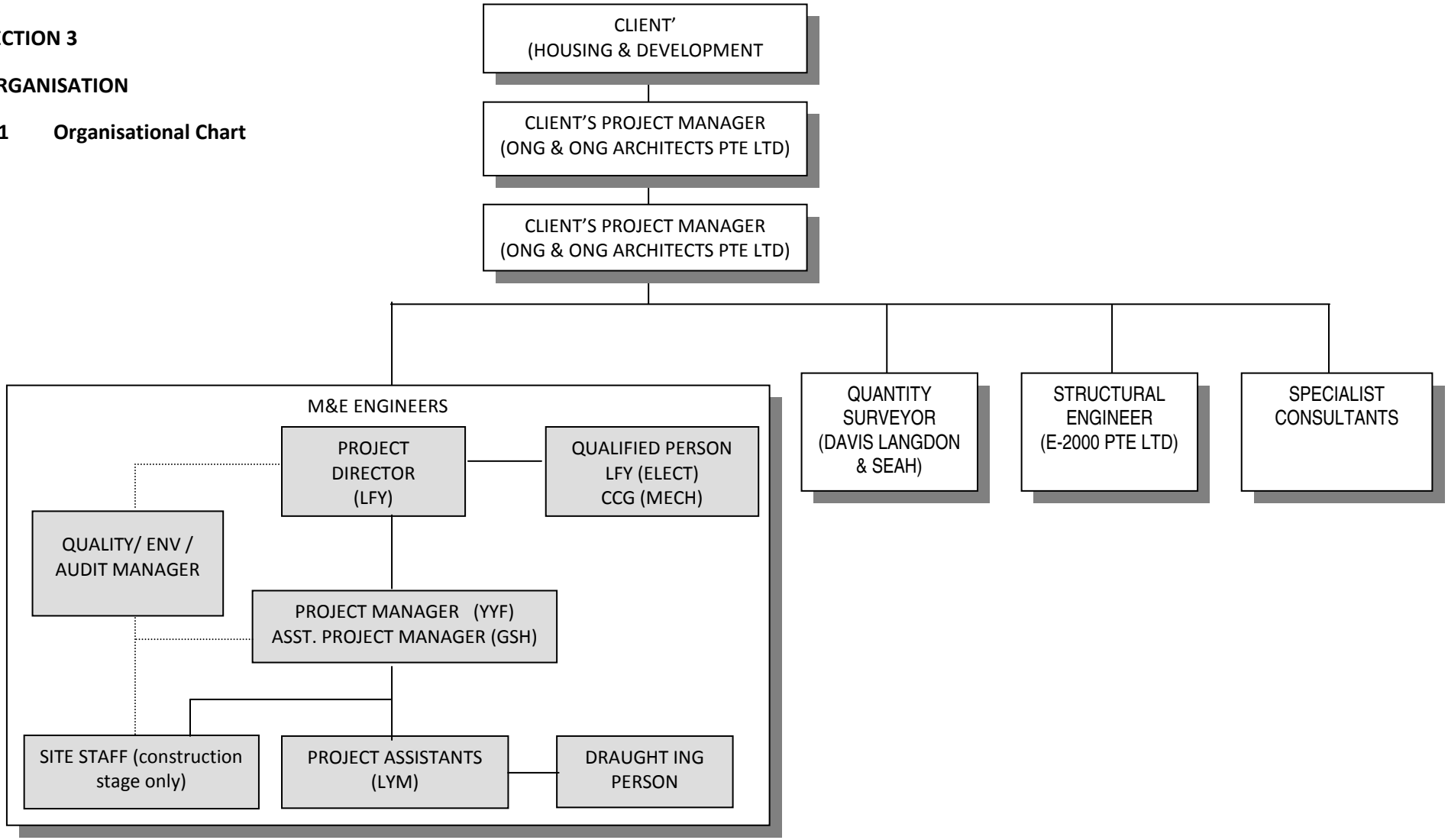
EJECTOR & DIVERTER		SUMP PUMP		FUEL OIL TANK		LIFT & ESCALATOR	✓	PRESSURE VESSEL	✓	HOISTS		FOAM	

(✓*where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 ACEPL's Project Team Member

TITLE		NAME
Project Director		Loh Fook Yuen (LFY)
Qualified Person	Mechanical	Choong Choon Guan (CCG)
	Electrical	Loh Fook Yuen (LFY)
Project Manager		Yip Yoke Fun (YYF)
Assistant Project Manager		Goh Soon Huat (GSH)
Project Assistant (Mech)		-
Project Assistant (Elect)		Loke Yik Mun (LYM)
Draughtsperson		Common Pool
Resident Engineer (M&E)		
Assistant Resident Engineer (M&E)		
Clerk-of-Work (M&E)		

3.3 Client/Client's Representatives

Client:- Housing & Development Board

Address:- HDB Hub
480 Lorong 6, Toa Payoh
Singapore 310480

Tel:- 6490 2043

Fax:- 6490 2080

Client's Representatives:-

Name of Company	Contact Person	Contact
Housing & Development Board	Name: Mr Loo Say Kian Position: Senior Engineer	Tel: 6490 3115 Fax: 6854 3208 Email: lsk13@hdb.gov.sg
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.4 Other Consultants (Local)

Function / Name of Company	Contact Person	Contact
Architect Ong & Ong Architects Pte Ltd	Name: Mr Yap Weng Seng Position: Director	Tel: 6258 8666 Fax: 6259 8646 Handphone: - Email: pwc14@ong-ong.com
Quantity Surveyor Davis Langdon & Seah Singapore Pte Ltd	Name: Mr Sunny Tan Position: Director	Tel: 6222 3888 Fax: 6224 7089 Handphone: - Email: 5679@dls.com.sg
Structural Engineer E2000 Pte Ltd	Name: Mr William Ng Position: Director	Tel: 6221 0388 Fax: 6221 2600 Handphone: - Email: eng2000@singnet.com.sg
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.4 Other Consultants (Overseas) – **NOT USED**

Function / Name of Company	Contact Person	Contact
Architect	Name: Position:	Tel: Fax: Handphone: Email:
M&E Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Quantity Surveyor	Name: Position:	Tel: Fax: Handphone: Email:
Structural Engineer	Name: Position:	Tel: Fax: Handphone: Email:
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.5 Contractors/Sub-Contractors

Function / Name of Company	Contract *	Contact Person	Contact
Main Contractor Sunhuan Construction Pte Ltd	DC	Name: Mr Liew Choon Min Position: Project Manager	Tel: 6455 2002 Fax: 6454 2002 Handphone: 93885433 Email:punggolwestc14@sunhuan.com.sg
Air Conditioning & Ventilation Installation Sub-Contractor		Name: Position:	Tel: Fax: Handphone: Email:
Plumbing & Sanitary Installation Sub-Contractor B-Construction Pte Ltd	DSC	Name: Mr Khor Siang Tai Position: Project Manager	Tel: 6858 1118 Fax: 6858 1191 Handphone: 9069 2892 Email: mail@b-con.sg.sg
Electrical Installation Sub-Contractor Joho Engineering & Services Pte Ltd	DSC	Name: Mr Chai Ah Bee Position: Project Manager	Tel: 6756 3313 Fax: 6756 4567 Handphone: Email: mailto:johopl@singnet.com.sg
Lift & Escalator Installation Sub-Contractor Fujitec S'pore Corporation Ltd	DSC	Name: Mr Anthony Lim Position: Project Manager	Tel: 6241 6222 Fax: 6444 7620 Handphone: 9239 0222 Email:
Fire Fighting & Alarm Installation Sub-Contractor B- Construction Pte Ltd	DSC	Name: Mr Khor Siang Tai Position: Project Manager	Tel: 6858 1118 Fax: 6858 1191 Handphone: 90692892 Email: mail@b-con.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor -		Name: Position:	Tel: Fax: Handphone: Email:
Carpark System Installation Sub-Contractor -		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	Francis Chang / Koh Kian Yian, Kristyn	6378 8555/ 6378 8572/6378 8564
(b) Diversion		
SP Services:		
(a) Customer Supply	Liong Chee Wei/Kristy Koh	6378 8794/6378 8289/6378 8527
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC:		
(a) SCV	Mohd Adam	6825 6196
(b) SingTel	Lim Qi Kang	9721 6031
(c) IDA	Tan Huay San	6211 1870
BCA:		
(a) Building Plan		
FSSD:		
(a) Building Plan	Ridzuwan Supari	6848 1418/6848 1490
(b) M&E Plan	Lau Heng Hui	6848 1413/6848 1490
PUB (Water Supply) Network Dept:		
(a) Water Conservation	Chee Beng Huat	6380 9825/6731 3020
(b) Plumbing Plan	Kuthubdeen Zaman	6731 3762
(c) Diversion		
PUB Water Reclamation (Network) Dept:		
(a) Building Plan/CBPU	Low Boon Hong, Arron	6732 7733/6731 9725
(b) M&E Plan		
(c) Diversion		
City Gas Pte Ltd:		
(a) Planning/Submission	Liew Khee Boon	6578 7603/6578 7819
(b) Installation/Inspection	Misnal Bin Pagi	6578 7816
PowerGas Pte Ltd		
(a) Diversion		
NEA (Pollution Control)		
(a) Planning/Submission		
(b) Inspection		

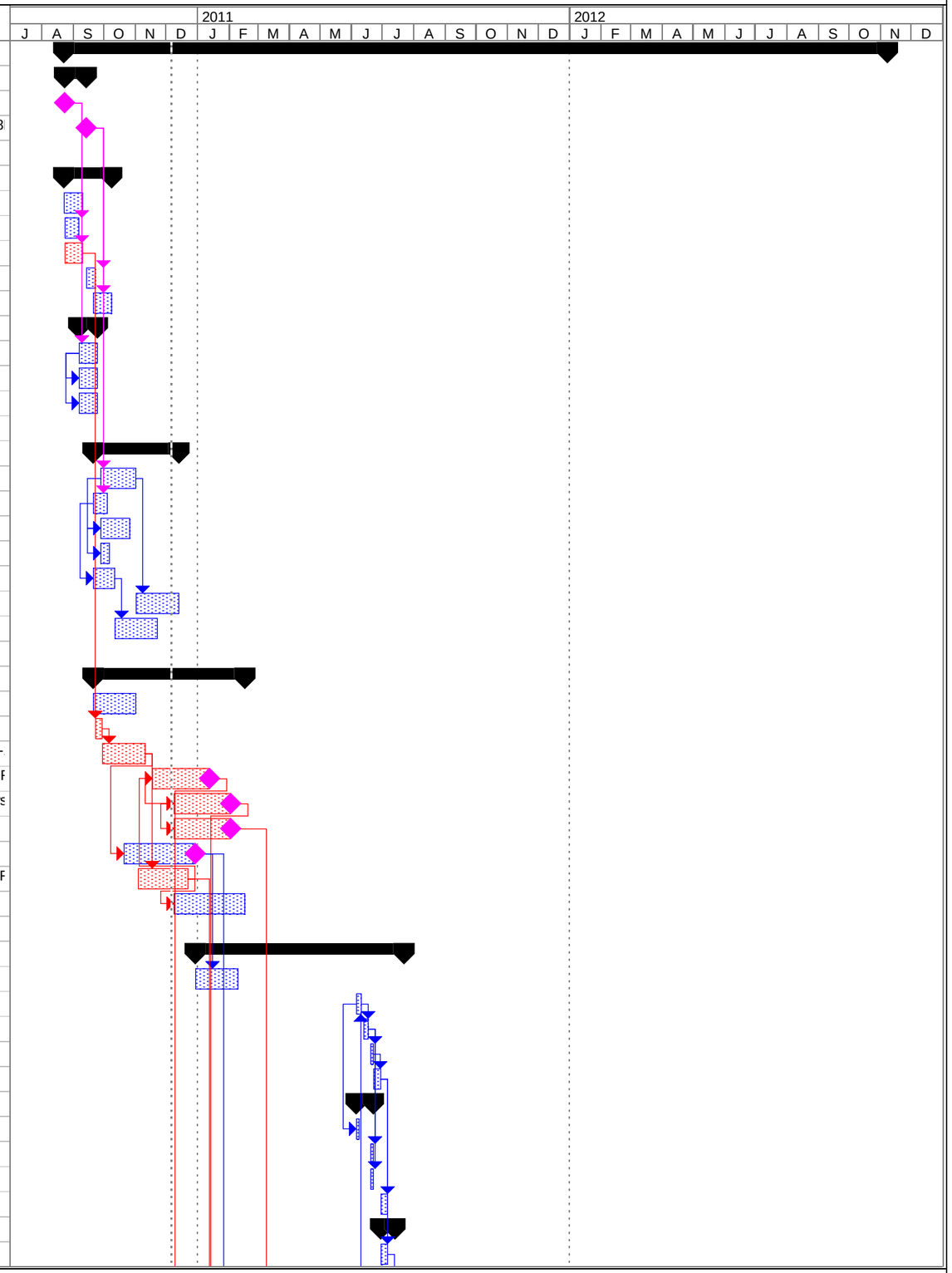
SECTION 4

PROGRAMME

4.1 Overall Programme (Refer to attached Master Programme)

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																									

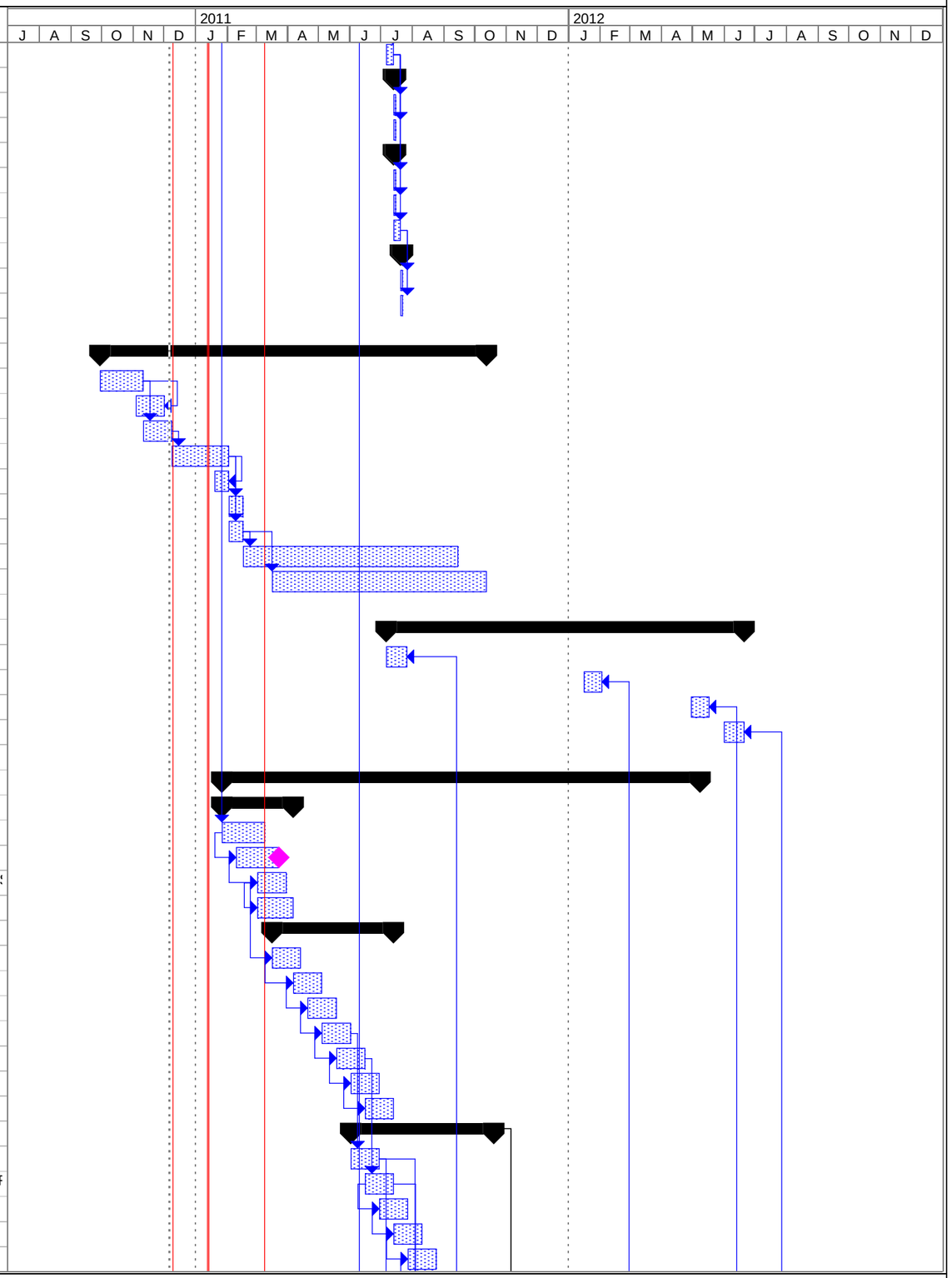
ID	Task Name	Duration	Start	Finish	Successors
1	**MASTER PROGRAMME FOR PGLW C14**	**578 days**	**Aug 23 '10**	**Nov 7 '12**	
2	**Contract Period (26 months)**	**15 days**	**Aug 24 '10**	**Sep 14 '10**	
3	Letter of Award	0 days	Aug 24 '10	Aug 24 '10	8,9,13FS+10 days
4	Contract Commencement Date	0 days	Sep 14 '10	Sep 14 '10	10,11FS+5 days,18
5					
6	**Preliminaries - Submission/Approval (Authorities/Others)**	**35 days**	**Aug 23 '10**	**Oct 8 '10**	
7	MOM Factory Permit	15 days	Aug 23 '10	Sep 10 '10	
8	Insurance	10 days	Aug 24 '10	Sep 6 '10	
9	BCA Permit to Commence Work	14 days	Aug 24 '10	Sep 10 '10	28FS+8 days
10	PUB (ECM-PE Design)	7 days	Sep 14 '10	Sep 22 '10	
11	LTA/NPARKS/HDB for Temporary Access	14 days	Sep 21 '10	Oct 8 '10	
12	**Others**	**14 days**	**Sep 7 '10**	**Sep 24 '10**	
13	Pre-Condition Survey	14 days	Sep 7 '10	Sep 24 '10	14SS,15SS
14	Cable Detection	14 days	Sep 7 '10	Sep 24 '10	
15	Method Statement for Piling & ULT Works	14 days	Sep 7 '10	Sep 24 '10	
16					
17	**Preliminaries - Site Facilities**	**60 days**	**Sep 21 '10**	**Dec 13 '10**	
18	Site Office & Signages	25 days	Sep 28 '10	Nov 1 '10	20SS,23
19	Wash Bay	10 days	Sep 21 '10	Oct 4 '10	22SS
20	Hoarding	21 days	Sep 28 '10	Oct 26 '10	21SS
21	Site Temporary Access	7 days	Sep 28 '10	Oct 6 '10	
22	ECM	15 days	Sep 21 '10	Oct 11 '10	24
23	Installation of Instrumentation Instruments	30 days	Nov 2 '10	Dec 13 '10	
24	Cutting of Earth to Proposed Platform Level	30 days	Oct 12 '10	Nov 22 '10	
25					
26	**Piling Works**	**107 days**	**Sep 21 '10**	**Feb 16 '11**	
27	LTA Submission/Approval	30 days	Sep 21 '10	Nov 1 '10	
28	Mobilisation	5 days	Sep 23 '10	Sep 29 '10	29
29	Ultimate Load Test	30 days	Sep 30 '10	Nov 10 '10	34FS-5 days,33FS-
30	Blk 211A	40 days	Nov 18 '10	Jan 12 '11	31SS+15 days,162F
31	Blk 211B	40 days	Dec 9 '10	Feb 2 '11	32SS,392FS-5 days
32	Blk 211C	40 days	Dec 9 '10	Feb 2 '11	621FS+25 days
33	Blk 211	50 days	Oct 21 '10	Dec 29 '10	81FS+20 days,38
34	Blk 211D	35 days	Nov 4 '10	Dec 22 '10	850FS+15 days,30F
35	Working Load Test	50 days	Dec 9 '10	Feb 16 '11	
36					
37	**Sample Units + Trade Demos (2nd & 3rd Sty Blk 211A & 211B)**	**147 days**	**Dec 30 '10**	**Jul 22 '11**	
38	Timber Mock-Up	30 days	Dec 30 '10	Feb 9 '11	
39	Ceiling Skimming	5 days	Jun 6 '11	Jun 10 '11	40,44SS
40	Brickworks/Blockworks/Partition Walls Erection	5 days	Jun 13 '11	Jun 17 '11	41,45,46
41	Door Frames/Window Frames	3 days	Jun 20 '11	Jun 22 '11	42
42	Water Proofing to Wet Areas	5 days	Jun 23 '11	Jun 29 '11	47,49
43	**M&E 1st Fix**	**13 days**	**Jun 6 '11**	**Jun 22 '11**	
44	Sanitary Pipes & Stacks	3 days	Jun 6 '11	Jun 8 '11	
45	Water Pipes Install	3 days	Jun 20 '11	Jun 22 '11	
46	Electrical Conduit Install	3 days	Jun 20 '11	Jun 22 '11	
47	Wall Skimming/Plastering	5 days	Jun 30 '11	Jul 6 '11	
48	**Tiling Works**	**10 days**	**Jun 30 '11**	**Jul 13 '11**	
49	Wall Tiles	5 days	Jun 30 '11	Jul 6 '11	50



Project: Master Programme-PGLW C1
Date: Dec 6 '10

Task | Critical Task | Progress | Milestone | Summary

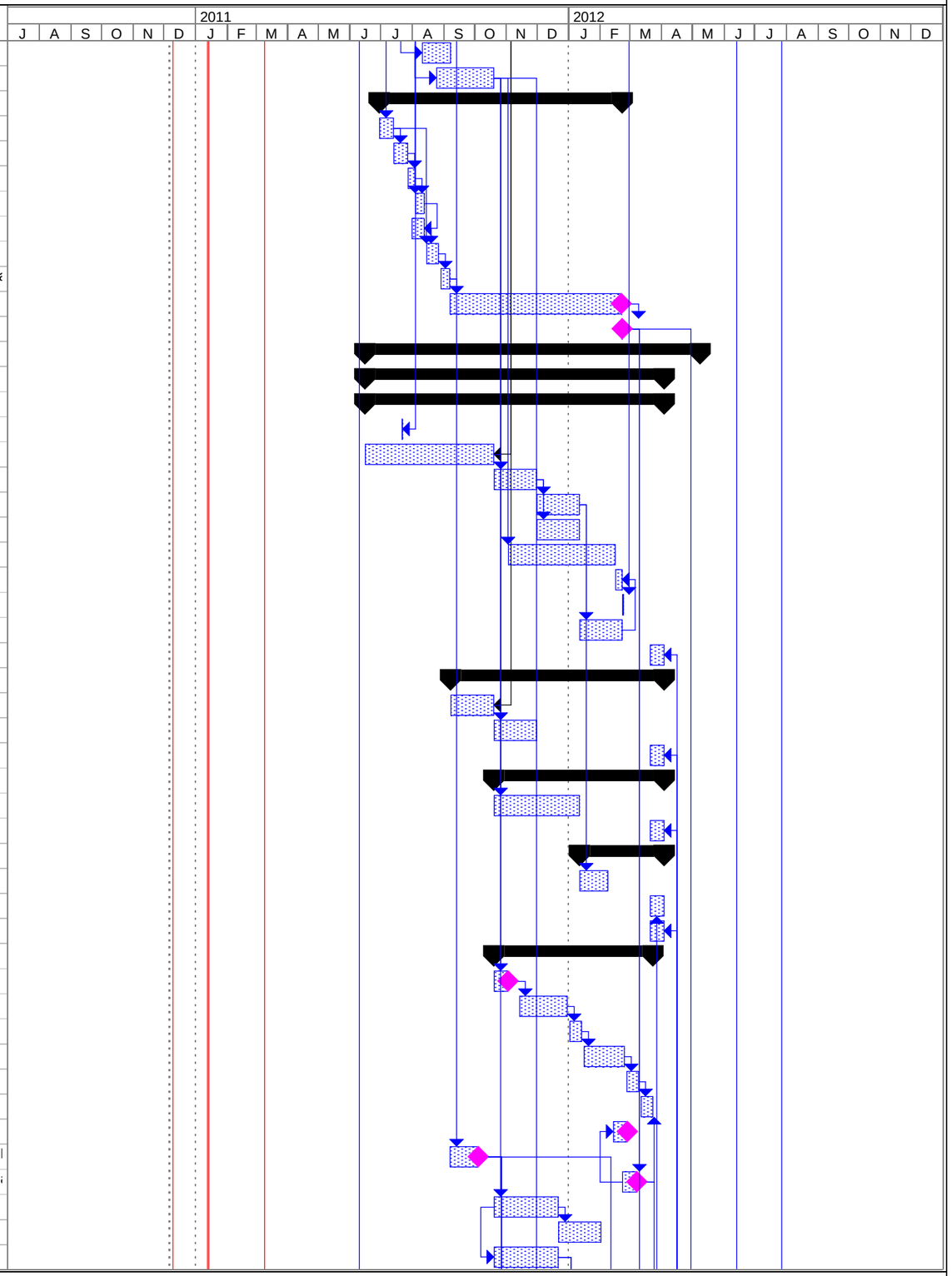
ID	Task Name	Duration	Start	Finish	Successors
50	Floor Tiles	5 days	Jul 7 '11	Jul 13 '11	52,53,55,56,57
51	**Door Panels**	**2 days**	**Jul 14 '11**	**Jul 15 '11**	
52	Main Doors/Bedrooms	2 days	Jul 14 '11	Jul 15 '11	
53	Blast Doors	2 days	Jul 14 '11	Jul 15 '11	
54	**M&E 2nd Fix**	**2 days**	**Jul 14 '11**	**Jul 15 '11**	
55	Sanitary Fittings/Water Fittings	2 days	Jul 14 '11	Jul 15 '11	
56	Electrical Fittings	2 days	Jul 14 '11	Jul 15 '11	
57	Painting	5 days	Jul 14 '11	Jul 20 '11	59,60
58	**Metal Works**	**2 days**	**Jul 21 '11**	**Jul 22 '11**	
59	Ironmongeries	2 days	Jul 21 '11	Jul 22 '11	
60	Cloth Hanging Device	2 days	Jul 21 '11	Jul 22 '11	
61					
62	**Precast Components**	**270 days**	**Sep 30 '10**	**Oct 12 '11**	
63	Shop Drawings preparations	30 days	Sep 30 '10	Nov 10 '10	64FF+15 days,65
64	M & E Feedback	20 days	Nov 4 '10	Dec 1 '10	
65	Shop Drawings Approvals	20 days	Nov 11 '10	Dec 8 '10	66
66	Precast Mould Fabrications	40 days	Dec 9 '10	Feb 2 '11	68,67FF,69
67	Delivery of Mock up Cast In Window and Dummy Door Frames	10 days	Jan 20 '11	Feb 2 '11	
68	Delivery of Cast In Items (Window Frames, Door Frames, Vent Sleeves Et	10 days	Feb 3 '11	Feb 16 '11	
69	1st Cast Inspection	10 days	Feb 3 '11	Feb 16 '11	70,71FS+20 days
70	Productions	150 days	Feb 17 '11	Sep 14 '11	
71	Delivery	150 days	Mar 17 '11	Oct 12 '11	
72					
73	**Service Providers**	**250 days**	**Jul 7 '11**	**Jun 20 '12**	
74	SP Powegrid (Cables Laying)	14 days	Jul 7 '11	Jul 26 '11	
75	PUB Water & Hydrant Pipes	14 days	Jan 16 '12	Feb 2 '12	
76	Powergas pipes & valves	14 days	Apr 30 '12	May 17 '12	
77	Singtel & Starhub (Cables Laying)	14 days	Jun 1 '12	Jun 20 '12	
78					
79	**Phase 1 & 2 - Blk 211 (ESS & MSCP)**	**334 days**	**Jan 27 '11**	**May 8 '12**	
80	**Substructure**	**50 days**	**Jan 27 '11**	**Apr 6 '11**	
81	Excavation of Pilecaps	30 days	Jan 27 '11	Mar 9 '11	82SS+10 days
82	Construction of Pilecaps	30 days	Feb 10 '11	Mar 23 '11	83SS+15 days
83	Stumps & Ground Beams	20 days	Mar 3 '11	Mar 30 '11	86SS+10 days,84S
84	Underground Pipe Laying	25 days	Mar 3 '11	Apr 6 '11	
85	**Superstructure**	**85 days**	**Mar 17 '11**	**Jul 13 '11**	
86	1st Sty	20 days	Mar 17 '11	Apr 13 '11	87SS+15 days
87	Deck 1A	20 days	Apr 7 '11	May 4 '11	88SS+10 days
88	Deck 1B	20 days	Apr 21 '11	May 18 '11	89SS+10 days
89	Deck 2B	20 days	May 5 '11	Jun 1 '11	90SS+10 days,94
90	Deck3A	20 days	May 19 '11	Jun 15 '11	91SS+10 days,95
91	Deck 3B	20 days	Jun 2 '11	Jun 29 '11	92SS+10 days
92	Roof Garden	20 days	Jun 16 '11	Jul 13 '11	
93	**Architectural Works**	**100 days**	**Jun 2 '11**	**Oct 19 '11**	**115FF,125FF**
94	1st Sty	20 days	Jun 2 '11	Jun 29 '11	105,102
95	Deck 1A	20 days	Jun 16 '11	Jul 13 '11	96SS+10 days,114F
96	Deck 1B	20 days	Jun 30 '11	Jul 27 '11	97SS+10 days
97	Deck 2B	20 days	Jul 14 '11	Aug 10 '11	98SS+10 days
98	Deck3A	20 days	Jul 28 '11	Aug 24 '11	99SS+10 days



Project: Master Programme-PGLW C1
Date: Dec 6 '10

Task | Critical Task | Progress | Milestone | Summary

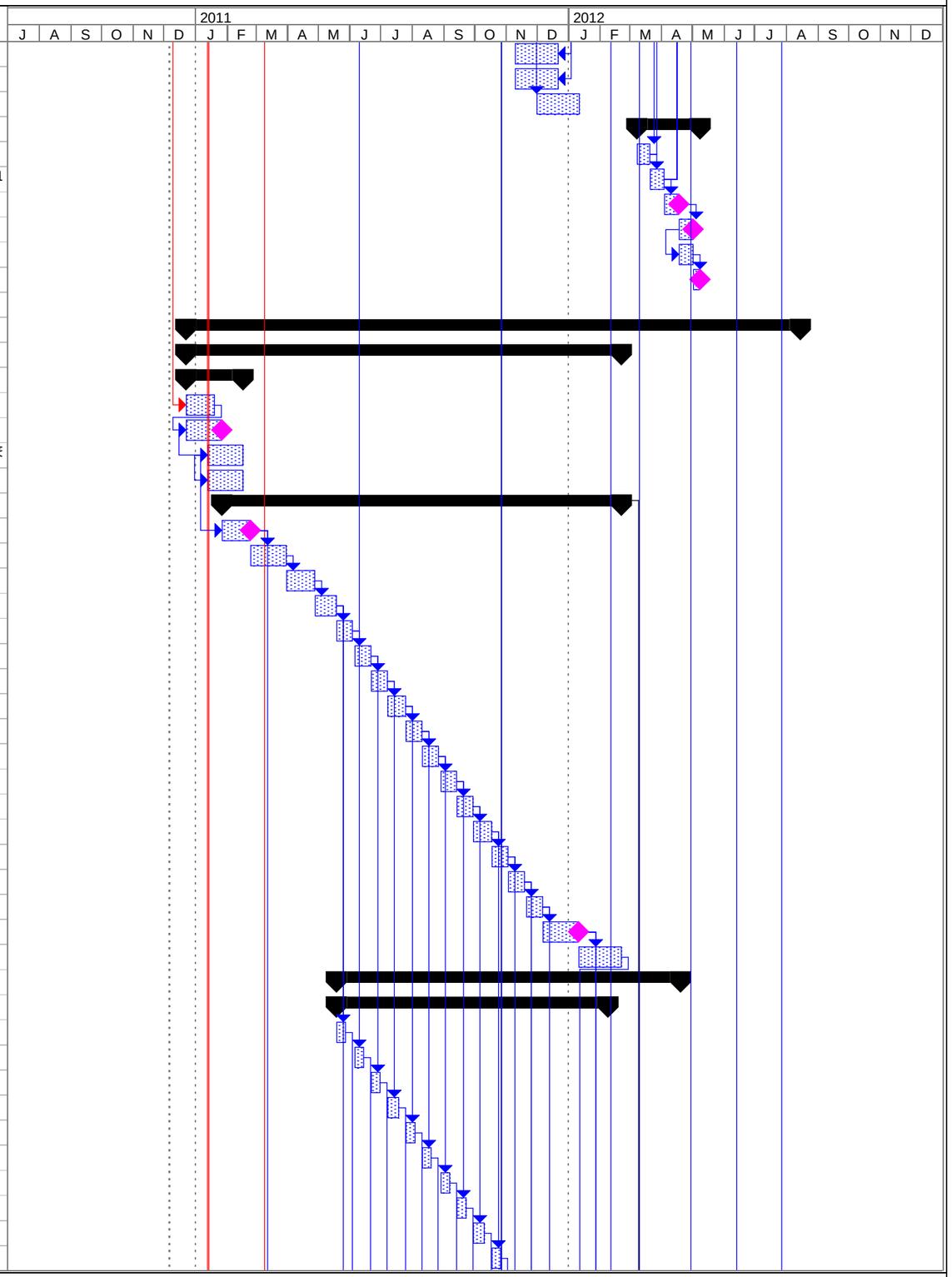
ID	Task Name	Duration	Start	Finish	Successors
99	Deck 3B	20 days	Aug 11 '11	Sep 7 '11	100SS+10 days
100	Roof Garden	40 days	Aug 25 '11	Oct 19 '11	145,129,150FS+30
101	**Electrical Sub-Station**	**170 days**	**Jun 30 '11**	**Feb 22 '12**	
102	M&E	10 days	Jun 30 '11	Jul 13 '11	107,103
103	External Plastering/Skimming	10 days	Jul 14 '11	Jul 27 '11	104
104	External Painting	5 days	Jul 28 '11	Aug 3 '11	105
105	Aluminium/Metal/Steel Works	7 days	Aug 4 '11	Aug 12 '11	106FF
106	Door Fix	10 days	Aug 1 '11	Aug 12 '11	107
107	Handing Over Inspections	10 days	Aug 15 '11	Aug 26 '11	108
108	Handover of ESS to PowerGrid	7 days	Aug 29 '11	Sep 6 '11	109,143,74FF-30 da
109	Power Grid Switchgears/Transformers/Cable Laying	120 days	Sep 7 '11	Feb 21 '12	110
110	Supply Turn On to ESS	1 day	Feb 22 '12	Feb 22 '12	144,373,602
111	**Multi Storey Car Park**	**234 days**	**Jun 16 '11**	**May 8 '12**	
112	**M&E**	**209 days**	**Jun 16 '11**	**Apr 3 '12**	
113	**Sanitary & Plumbing Works**	**209 days**	**Jun 16 '11**	**Apr 3 '12**	
114	Installation of HR Tank	1 day	Jul 22 '11	Jul 22 '11	
115	Sanitary Pipes and Stacks Install	90 days	Jun 16 '11	Oct 19 '11	116
116	IC Lines	30 days	Oct 20 '11	Nov 30 '11	118,117
117	IC Cover Install	30 days	Dec 1 '11	Jan 11 '12	122,132
118	Cleaning Up and Water Test	30 days	Dec 1 '11	Jan 11 '12	
119	Cold water piping	75 days	Nov 3 '11	Feb 15 '12	
120	PUB Water Inspection	5 days	Feb 16 '12	Feb 22 '12	121,75FF-14 days
121	PUB Water Turn On & Bulk Meter	1 day	Feb 23 '12	Feb 23 '12	
122	Inspections for Handover	30 days	Jan 12 '12	Feb 22 '12	120FF
123	CBPU Inspection and Clearance	10 days	Mar 21 '12	Apr 3 '12	
124	**Fire Alarm System**	**149 days**	**Sep 8 '11**	**Apr 3 '12**	
125	Conduit & Wiring	30 days	Sep 8 '11	Oct 19 '11	126
126	Alarm Install	30 days	Oct 20 '11	Nov 30 '11	
127	Testing and Commissioning	10 days	Mar 21 '12	Apr 3 '12	
128	**Irrigation System**	**119 days**	**Oct 20 '11**	**Apr 3 '12**	
129	Piping Install	60 days	Oct 20 '11	Jan 11 '12	
130	Testing and Commissioning	10 days	Mar 21 '12	Apr 3 '12	
131	**Hosereel Installation**	**59 days**	**Jan 12 '12**	**Apr 3 '12**	
132	Piping Install	20 days	Jan 12 '12	Feb 8 '12	
133	Hosereel	10 days	Mar 21 '12	Apr 3 '12	
134	Testing and Commissioning	10 days	Mar 21 '12	Apr 3 '12	
135	**Lift**	**112 days**	**Oct 20 '11**	**Mar 23 '12**	
136	Handover of Lift Shaft to Lift Contractor	10 days	Oct 20 '11	Nov 2 '11	137
137	Alignment Checking and Installation of Guiderails and Door	35 days	Nov 14 '11	Dec 30 '11	138
138	Bricking up	10 days	Jan 2 '12	Jan 13 '12	139
139	Liftcar and Door Panels Install	30 days	Jan 16 '12	Feb 24 '12	140
140	Lift Lobby Tiling/Screeding	10 days	Feb 27 '12	Mar 9 '12	141
141	Testing and Commissioning	10 days	Mar 12 '12	Mar 23 '12	
142	Pump Room Inspection and Handover	10 days	Feb 14 '12	Feb 27 '12	
143	MDF Room Inspection and Handover	20 days	Sep 7 '11	Oct 4 '11	372FF,601FF,830F
144	CSR Electricity Turn On	10 days	Feb 23 '12	Mar 7 '12	152,141,142SS-7 da
145	External Plastering/Skimming	45 days	Oct 20 '11	Dec 21 '11	146,147SS
146	External Painting	30 days	Dec 22 '11	Feb 1 '12	
147	Aluminium/Metal/Steel Works	45 days	Oct 20 '11	Dec 21 '11	148FF,149FF



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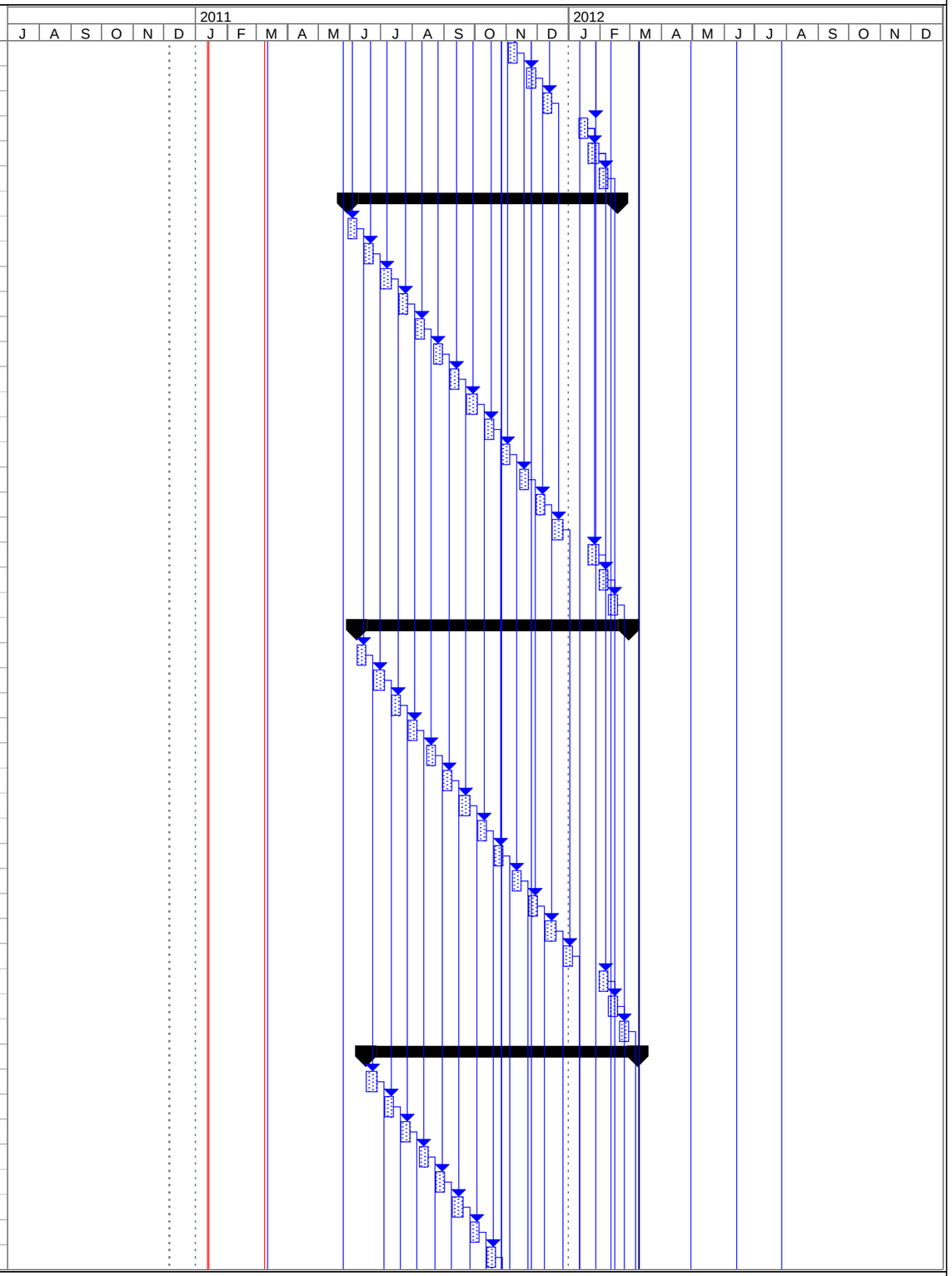
ID	Task Name	Duration	Start	Finish	Successors
148	Door Fix	30 days	Nov 10 '11	Dec 21 '11	
149	Signages	30 days	Nov 10 '11	Dec 21 '11	
150	Landscape & Other Items	30 days	Dec 1 '11	Jan 11 '12	
151	**Inspections and Handing Over (MSCP)**	**44 days**	**Mar 8 '12**	**May 8 '12**	
152	Cleaning up	9 days	Mar 8 '12	Mar 20 '12	133,153
153	Consultant Inspection and Defects Rectification	10 days	Mar 21 '12	Apr 3 '12	154,134FF,130FF,1
154	RI Inspection and Defects Rectification	10 days	Apr 4 '12	Apr 17 '12	155
155	TOP Inspection and Defects Rectification	10 days	Apr 18 '12	May 1 '12	156SS
156	TC & BO Inspection and Defects Rectification	10 days	Apr 18 '12	May 1 '12	157
157	Handing Over	5 days	May 2 '12	May 8 '12	
158					
159	**Phase 3 - Blk 211A (16 Storey)**	**429 days**	**Dec 23 '10**	**Aug 14 '12**	
160	**Structural Works**	**304 days**	**Dec 23 '10**	**Feb 21 '12**	
161	**Substructure**	**40 days**	**Dec 23 '10**	**Feb 16 '11**	
162	Excavation of Pilecaps	20 days	Dec 23 '10	Jan 19 '11	163FS-20 days
163	Construction of Pilecaps	25 days	Dec 23 '10	Jan 26 '11	164SS+15 days
164	Stump & Ground Beams	25 days	Jan 13 '11	Feb 16 '11	167SS+10 days,165
165	Underground Pipe Laying	25 days	Jan 13 '11	Feb 16 '11	
166	**Superstructure**	**279 days**	**Jan 27 '11**	**Feb 21 '12**	**1077**
167	1st Sty Slab	20 days	Jan 27 '11	Feb 23 '11	168,351
168	2nd Sty	25 days	Feb 24 '11	Mar 30 '11	169
169	3rd Sty	20 days	Mar 31 '11	Apr 27 '11	170
170	4th Sty	15 days	Apr 28 '11	May 18 '11	187,171,361
171	5th Sty	12 days	May 19 '11	Jun 3 '11	172,188,39
172	6th Sty	12 days	Jun 6 '11	Jun 21 '11	173,189
173	7th Sty	12 days	Jun 22 '11	Jul 7 '11	174,190
174	8th Sty	12 days	Jul 8 '11	Jul 25 '11	175,191
175	9th Sty	12 days	Jul 26 '11	Aug 10 '11	176,192
176	10th Sty	12 days	Aug 11 '11	Aug 26 '11	177,193
177	11th Sty	12 days	Aug 29 '11	Sep 13 '11	178,194
178	12th Sty	12 days	Sep 14 '11	Sep 29 '11	179,195
179	13th Sty	12 days	Sep 30 '11	Oct 17 '11	180,196
180	14th Sty	12 days	Oct 18 '11	Nov 2 '11	181,197
181	15th Sty	12 days	Nov 3 '11	Nov 18 '11	182,339,198
182	16th Sty	12 days	Nov 21 '11	Dec 6 '11	183,199
183	Roof	25 days	Dec 7 '11	Jan 10 '12	184,200,353
184	Water Tank Installation	30 days	Jan 11 '12	Feb 21 '12	365FS-20 days
185	**Architectural Wokrs**	**241 days**	**May 19 '11**	**Apr 19 '12**	
186	**Ceiling Skimming**	**190 days**	**May 19 '11**	**Feb 8 '12**	
187	1st Sty	7 days	May 19 '11	May 27 '11	204
188	2nd Sty	7 days	Jun 6 '11	Jun 14 '11	205
189	3rd Sty	7 days	Jun 22 '11	Jun 30 '11	206
190	4th Sty	7 days	Jul 8 '11	Jul 18 '11	207
191	5th Sty	7 days	Jul 26 '11	Aug 3 '11	208
192	6th Sty	7 days	Aug 11 '11	Aug 19 '11	209
193	7th Sty	7 days	Aug 29 '11	Sep 6 '11	210
194	8th Sty	7 days	Sep 14 '11	Sep 22 '11	211
195	9th Sty	7 days	Sep 30 '11	Oct 10 '11	212
196	10th Sty	7 days	Oct 18 '11	Oct 26 '11	213



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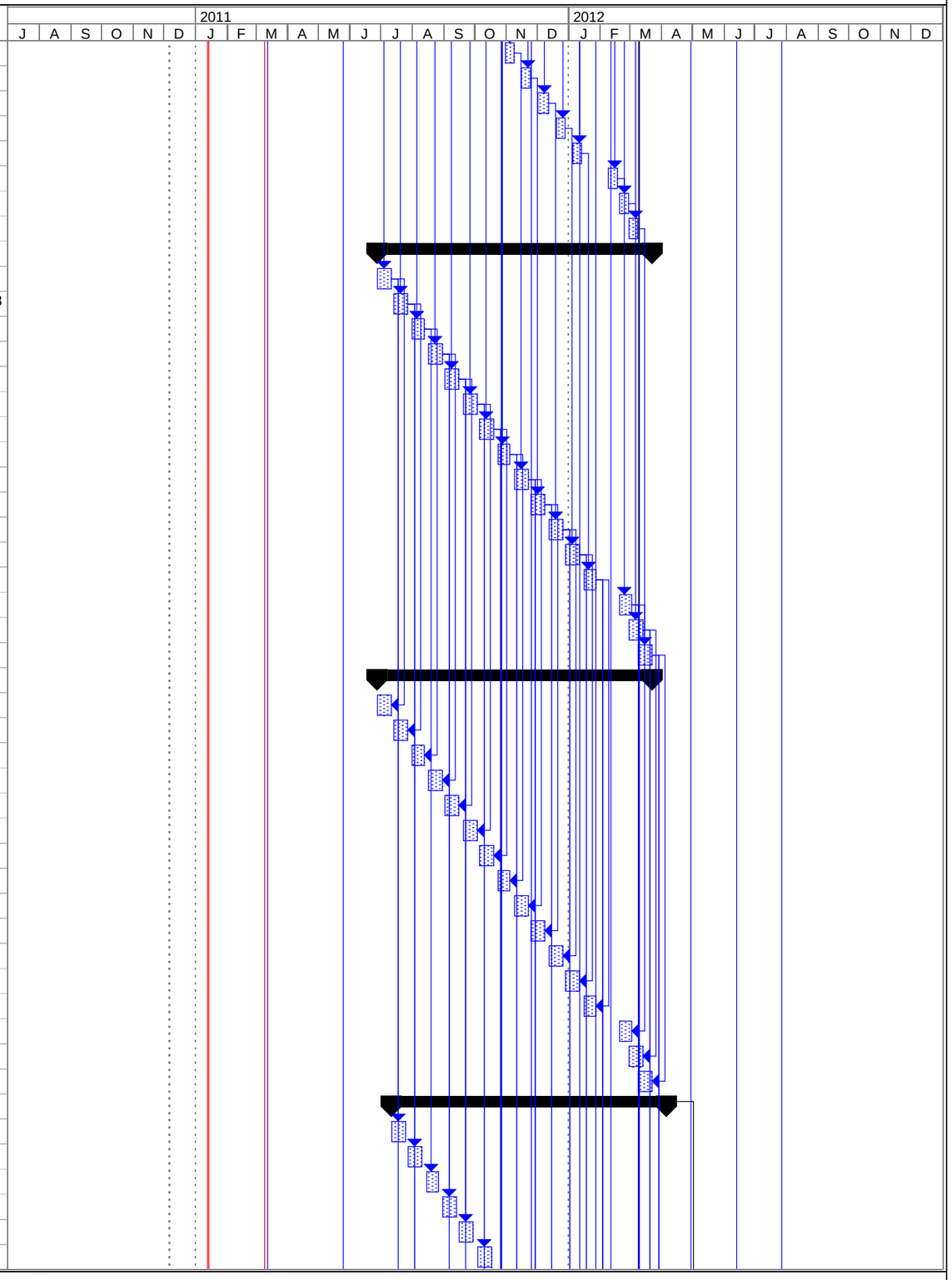
ID	Task Name	Duration	Start	Finish	Successors
197	11th Sty	7 days	Nov 3 '11	Nov 11 '11	214
198	12th Sty	7 days	Nov 21 '11	Nov 29 '11	215
199	13th Sty	7 days	Dec 7 '11	Dec 15 '11	216
200	14th Sty	7 days	Jan 11 '12	Jan 19 '12	217,201
201	15th Sty	7 days	Jan 20 '12	Jan 30 '12	218,202
202	16th Sty	7 days	Jan 31 '12	Feb 8 '12	219
203	**Brickworks/Blockworks/Partition Wall Erection**	**190 days**	**May 30 '11**	**Feb 17 '12**	
204	1st Sty	7 days	May 30 '11	Jun 7 '11	221
205	2nd Sty	7 days	Jun 15 '11	Jun 23 '11	222
206	3rd Sty	7 days	Jul 1 '11	Jul 11 '11	223
207	4th Sty	7 days	Jul 19 '11	Jul 27 '11	224
208	5th Sty	7 days	Aug 4 '11	Aug 12 '11	225
209	6th Sty	7 days	Aug 22 '11	Aug 30 '11	226
210	7th Sty	7 days	Sep 7 '11	Sep 15 '11	227
211	8th Sty	7 days	Sep 23 '11	Oct 3 '11	228
212	9th Sty	7 days	Oct 11 '11	Oct 19 '11	229
213	10th Sty	7 days	Oct 27 '11	Nov 4 '11	230
214	11th Sty	7 days	Nov 14 '11	Nov 22 '11	231
215	12th Sty	7 days	Nov 30 '11	Dec 8 '11	232
216	13th Sty	7 days	Dec 16 '11	Dec 26 '11	233
217	14th Sty	7 days	Jan 20 '12	Jan 30 '12	234
218	15th Sty	7 days	Jan 31 '12	Feb 8 '12	235
219	16th Sty	7 days	Feb 9 '12	Feb 17 '12	236
220	**Door Frames/Window Frames**	**190 days**	**Jun 8 '11**	**Feb 28 '12**	
221	1st Sty	7 days	Jun 8 '11	Jun 16 '11	238
222	2nd Sty	7 days	Jun 24 '11	Jul 4 '11	239
223	3rd Sty	7 days	Jul 12 '11	Jul 20 '11	240
224	4th Sty	7 days	Jul 28 '11	Aug 5 '11	241
225	5th Sty	7 days	Aug 15 '11	Aug 23 '11	242
226	6th Sty	7 days	Aug 31 '11	Sep 8 '11	243
227	7th Sty	7 days	Sep 16 '11	Sep 26 '11	244
228	8th Sty	7 days	Oct 4 '11	Oct 12 '11	245
229	9th Sty	7 days	Oct 20 '11	Oct 28 '11	246
230	10th Sty	7 days	Nov 7 '11	Nov 15 '11	247
231	11th Sty	7 days	Nov 23 '11	Dec 1 '11	248
232	12th Sty	7 days	Dec 9 '11	Dec 19 '11	249
233	13th Sty	7 days	Dec 27 '11	Jan 4 '12	250
234	14th Sty	7 days	Jan 31 '12	Feb 8 '12	251
235	15th Sty	7 days	Feb 9 '12	Feb 17 '12	252
236	16th Sty	7 days	Feb 20 '12	Feb 28 '12	253
237	**M&E 1st Fix (Sanitary Pipes & Stacks, Water Pipes, Electrical C**	**190 days**	**Jun 17 '11**	**Mar 8 '12**	
238	1st Sty	7 days	Jun 17 '11	Jun 27 '11	255
239	2nd Sty	7 days	Jul 5 '11	Jul 13 '11	256
240	3rd Sty	7 days	Jul 21 '11	Jul 29 '11	257
241	4th Sty	7 days	Aug 8 '11	Aug 16 '11	258
242	5th Sty	7 days	Aug 24 '11	Sep 1 '11	259
243	6th Sty	7 days	Sep 9 '11	Sep 19 '11	260
244	7th Sty	7 days	Sep 27 '11	Oct 5 '11	261
245	8th Sty	7 days	Oct 13 '11	Oct 21 '11	262



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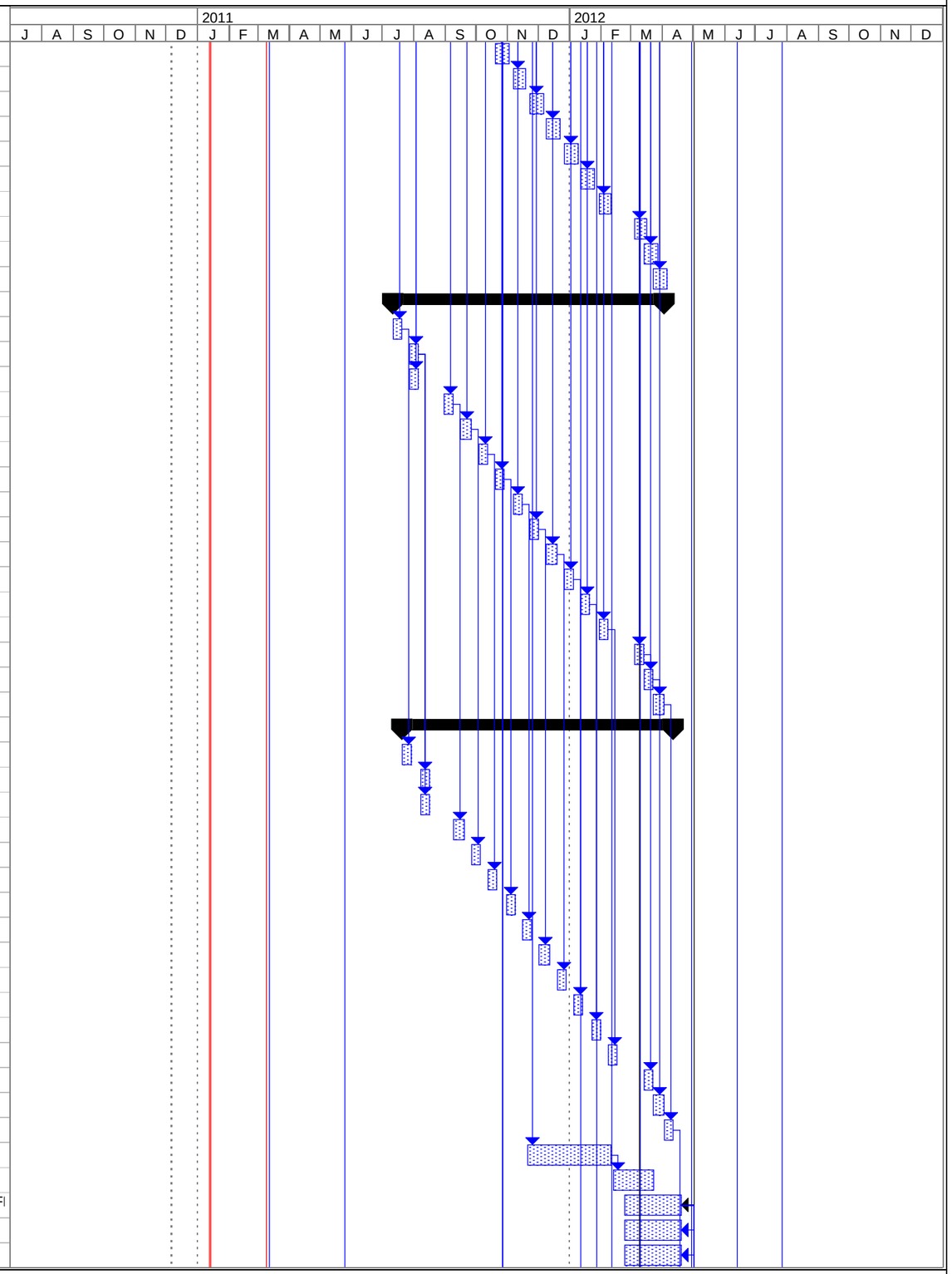
ID	Task Name	Duration	Start	Finish	Successors
246	9th Sty	7 days	Oct 31 '11	Nov 8 '11	263
247	10th Sty	7 days	Nov 16 '11	Nov 24 '11	264
248	11th Sty	7 days	Dec 2 '11	Dec 12 '11	265
249	12th Sty	7 days	Dec 20 '11	Dec 28 '11	266
250	13th Sty	7 days	Jan 5 '12	Jan 13 '12	267
251	14th Sty	7 days	Feb 9 '12	Feb 17 '12	268
252	15th Sty	7 days	Feb 20 '12	Feb 28 '12	269
253	16th Sty	7 days	Feb 29 '12	Mar 8 '12	270
254	**Wall Tiles**	**193 days**	**Jun 28 '11**	**Mar 22 '12**	
255	1st Sty	10 days	Jun 28 '11	Jul 11 '11	272FF,289,306
256	2nd Sty	10 days	Jul 14 '11	Jul 27 '11	273FF,290,307,308
257	3rd Sty	10 days	Aug 1 '11	Aug 12 '11	274FF,291
258	4th Sty	10 days	Aug 17 '11	Aug 30 '11	275FF,292,309
259	5th Sty	10 days	Sep 2 '11	Sep 15 '11	276FF,293,310
260	6th Sty	10 days	Sep 20 '11	Oct 3 '11	277FF,294,311
261	7th Sty	10 days	Oct 6 '11	Oct 19 '11	278FF,295,312
262	8th Sty	10 days	Oct 24 '11	Nov 4 '11	279FF,296,313
263	9th Sty	10 days	Nov 9 '11	Nov 22 '11	280FF,297,314
264	10th Sty	10 days	Nov 25 '11	Dec 8 '11	281FF,298,315
265	11th Sty	10 days	Dec 13 '11	Dec 26 '11	282FF,299,316
266	12th Sty	10 days	Dec 29 '11	Jan 11 '12	283FF,300,317
267	13th Sty	10 days	Jan 16 '12	Jan 27 '12	284FF,301,318
268	14th Sty	10 days	Feb 20 '12	Mar 2 '12	285FF,302,319
269	15th Sty	10 days	Feb 29 '12	Mar 13 '12	286FF,303,320
270	16th Sty	10 days	Mar 9 '12	Mar 22 '12	287FF,304,321
271	**Wall Skimming/Plastering**	**193 days**	**Jun 28 '11**	**Mar 22 '12**	
272	1st Sty	10 days	Jun 28 '11	Jul 11 '11	
273	2nd Sty	10 days	Jul 14 '11	Jul 27 '11	
274	3rd Sty	10 days	Aug 1 '11	Aug 12 '11	
275	4th Sty	10 days	Aug 17 '11	Aug 30 '11	
276	5th Sty	10 days	Sep 2 '11	Sep 15 '11	
277	6th Sty	10 days	Sep 20 '11	Oct 3 '11	
278	7th Sty	10 days	Oct 6 '11	Oct 19 '11	
279	8th Sty	10 days	Oct 24 '11	Nov 4 '11	
280	9th Sty	10 days	Nov 9 '11	Nov 22 '11	
281	10th Sty	10 days	Nov 25 '11	Dec 8 '11	
282	11th Sty	10 days	Dec 13 '11	Dec 26 '11	
283	12th Sty	10 days	Dec 29 '11	Jan 11 '12	
284	13th Sty	10 days	Jan 16 '12	Jan 27 '12	
285	14th Sty	10 days	Feb 20 '12	Mar 2 '12	
286	15th Sty	10 days	Feb 29 '12	Mar 13 '12	
287	16th Sty	10 days	Mar 9 '12	Mar 22 '12	
288	**Floor Tiles**	**193 days**	**Jul 12 '11**	**Apr 5 '12**	**341FF+10 days**
289	1st Storey	10 days	Jul 12 '11	Jul 25 '11	
290	2nd Sty	10 days	Jul 28 '11	Aug 10 '11	
291	3rd Sty	10 days	Aug 15 '11	Aug 26 '11	
292	4th Sty	10 days	Aug 31 '11	Sep 13 '11	
293	5th Sty	10 days	Sep 16 '11	Sep 29 '11	
294	6th Sty	10 days	Oct 4 '11	Oct 17 '11	



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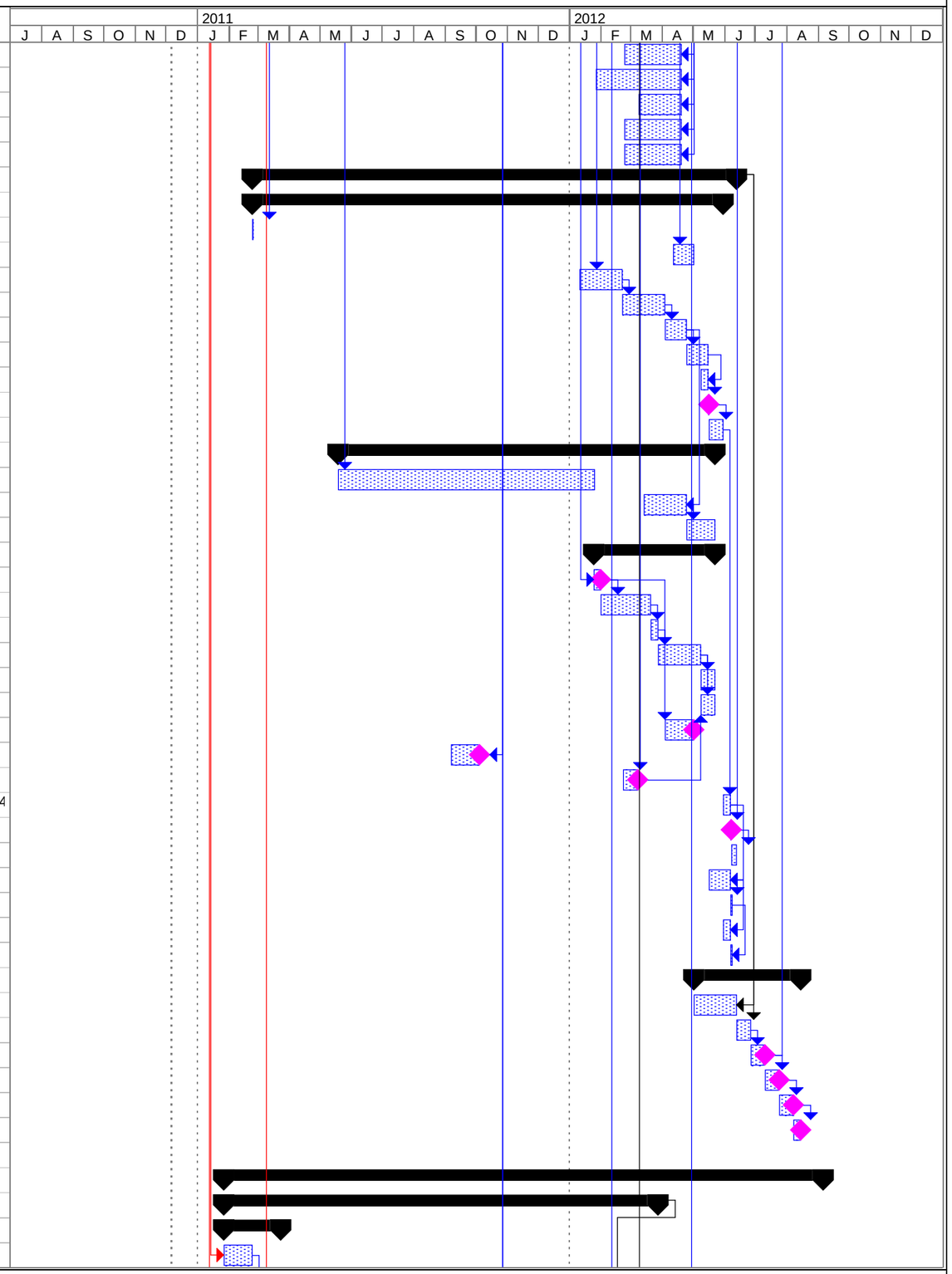
ID	Task Name	Duration	Start	Finish	Successors
295	7th Sty	10 days	Oct 20 '11	Nov 2 '11	
296	8th Sty	10 days	Nov 7 '11	Nov 18 '11	
297	9th Sty	10 days	Nov 23 '11	Dec 6 '11	
298	10th Sty	10 days	Dec 9 '11	Dec 22 '11	
299	11th Sty	10 days	Dec 27 '11	Jan 9 '12	
300	12th Sty	10 days	Jan 12 '12	Jan 25 '12	
301	13th Sty	10 days	Jan 30 '12	Feb 10 '12	
302	14th Sty	10 days	Mar 5 '12	Mar 16 '12	
303	15th Sty	10 days	Mar 14 '12	Mar 27 '12	
304	16th Sty	10 days	Mar 23 '12	Apr 5 '12	
305	**Internal Painting**	**190 days**	**Jul 12 '11**	**Apr 2 '12**	
306	1st Sty	7 days	Jul 12 '11	Jul 20 '11	323
307	2nd Sty	7 days	Jul 28 '11	Aug 5 '11	324,325
308	3rd Sty	7 days	Jul 28 '11	Aug 5 '11	
309	4th Sty	7 days	Aug 31 '11	Sep 8 '11	326
310	5th Sty	7 days	Sep 16 '11	Sep 26 '11	327
311	6th Sty	7 days	Oct 4 '11	Oct 12 '11	328
312	7th Sty	7 days	Oct 20 '11	Oct 28 '11	329
313	8th Sty	7 days	Nov 7 '11	Nov 15 '11	330
314	9th Sty	7 days	Nov 23 '11	Dec 1 '11	331
315	10th Sty	7 days	Dec 9 '11	Dec 19 '11	332
316	11th Sty	7 days	Dec 27 '11	Jan 4 '12	333
317	12th Sty	7 days	Jan 12 '12	Jan 20 '12	334
318	13th Sty	7 days	Jan 30 '12	Feb 7 '12	335
319	14th Sty	7 days	Mar 5 '12	Mar 13 '12	336
320	15th Sty	7 days	Mar 14 '12	Mar 22 '12	337
321	16th Sty	7 days	Mar 23 '12	Apr 2 '12	338
322	**M&E 2nd Fix (Electrical Wiring, Gas Pipe)**	**190 days**	**Jul 21 '11**	**Apr 11 '12**	
323	1st Sty	7 days	Jul 21 '11	Jul 29 '11	
324	2nd Sty	7 days	Aug 8 '11	Aug 16 '11	
325	3rd Sty	7 days	Aug 8 '11	Aug 16 '11	
326	4th Sty	7 days	Sep 9 '11	Sep 19 '11	
327	5th Sty	7 days	Sep 27 '11	Oct 5 '11	
328	6th Sty	7 days	Oct 13 '11	Oct 21 '11	
329	7th Sty	7 days	Oct 31 '11	Nov 8 '11	
330	8th Sty	7 days	Nov 16 '11	Nov 24 '11	
331	9th Sty	7 days	Dec 2 '11	Dec 12 '11	
332	10th Sty	7 days	Dec 20 '11	Dec 28 '11	
333	11th Sty	7 days	Jan 5 '12	Jan 13 '12	
334	12th Sty	7 days	Jan 23 '12	Jan 31 '12	
335	13th Sty	7 days	Feb 8 '12	Feb 16 '12	
336	14th Sty	7 days	Mar 14 '12	Mar 22 '12	
337	15th Sty	7 days	Mar 23 '12	Apr 2 '12	
338	16th Sty	7 days	Apr 3 '12	Apr 11 '12	352
339	Childcare Centre	60 days	Nov 21 '11	Feb 10 '12	340
340	Ceiling/Aluminium Boards Installation	30 days	Feb 13 '12	Mar 23 '12	
341	Door Panels Installation	40 days	Feb 24 '12	Apr 19 '12	342FF,343FF,346FI
342	M & E Fittings Installations	40 days	Feb 24 '12	Apr 19 '12	
343	Aluminium Window/Glazing Installation	40 days	Feb 24 '12	Apr 19 '12	



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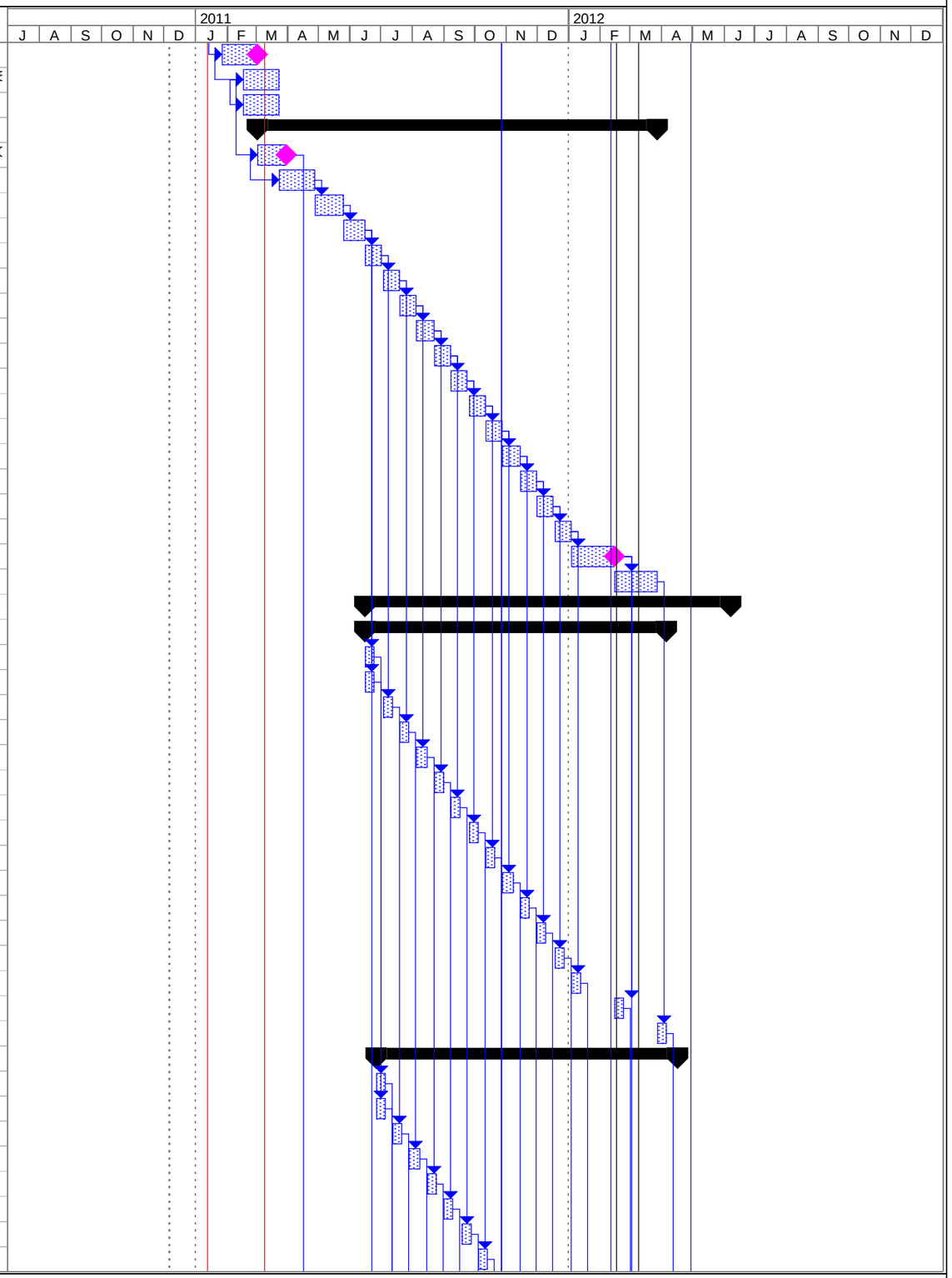
ID	Task Name	Duration	Start	Finish	Successors
344	Blast Door Panel Installation	40 days	Feb 24 '12	Apr 19 '12	
345	Aluminium/Metal/Steel Works	60 days	Jan 27 '12	Apr 19 '12	
346	Refuse Handling Equipment	30 days	Mar 9 '12	Apr 19 '12	
347	External Plaster/Skimming	40 days	Feb 24 '12	Apr 19 '12	
348	External Painting	40 days	Feb 24 '12	Apr 19 '12	
349	**M & E Works**	**339 days**	**Feb 24 '11**	**Jun 12 '12**	**383,382FF**
350	**Sanitary & Plumbing Works**	**330 days**	**Feb 24 '11**	**May 30 '12**	
351	Installation of suction tank	1 day	Feb 24 '11	Feb 24 '11	
352	Installation of pumps and control panels	14 days	Apr 12 '12	May 1 '12	
353	IC Lines	30 days	Jan 11 '12	Feb 21 '12	354
354	IC Cover Install	30 days	Feb 22 '12	Apr 3 '12	355
355	Cleaning Up and Water Test	15 days	Apr 4 '12	Apr 24 '12	356,362FF
356	Inspections for Handover	15 days	Apr 25 '12	May 15 '12	357FF
357	PUB Water Inspection	5 days	May 9 '12	May 15 '12	358
358	PUB Water Turn On & Bulk Meter	1 day	May 16 '12	May 16 '12	359
359	CBPU Inspection and Clearance	10 days	May 17 '12	May 30 '12	374
360	**Dry Riser/Hosereel Installation**	**264 days**	**May 19 '11**	**May 22 '12**	
361	Piping Install	180 days	May 19 '11	Jan 25 '12	
362	Breeching Inlet/Hosereel Installation	30 days	Mar 14 '12	Apr 24 '12	363
363	Testing and Commissioning	20 days	Apr 25 '12	May 22 '12	
364	**Lift**	**85 days**	**Jan 25 '12**	**May 22 '12**	
365	Handing Over of Liftshaft to Lift Contractor	5 days	Jan 25 '12	Jan 31 '12	366,371
366	Alignment Checking and Installation of Guiderails and Door Jam	35 days	Feb 1 '12	Mar 20 '12	367
367	Bricking up	5 days	Mar 21 '12	Mar 27 '12	368
368	Liftcar and Door Panels Install	30 days	Mar 28 '12	May 8 '12	369,370
369	Lift Lobby Tiling/Screeding	10 days	May 9 '12	May 22 '12	
370	Testing and Commissioning	10 days	May 9 '12	May 22 '12	
371	Pump Room Completion/Handover	20 days	Apr 4 '12	May 1 '12	
372	TER Room Inspection and Handover	20 days	Sep 7 '11	Oct 4 '11	
373	CSR Room Electricity Turn On	10 days	Feb 23 '12	Mar 7 '12	370
374	Gas Pressure Test	5 days	May 31 '12	Jun 6 '12	375,377FF,76FF-14
375	Gas Turn On	1 day	Jun 7 '12	Jun 7 '12	376
376	Gas Sub Meter to Units	3 days	Jun 8 '12	Jun 12 '12	
377	Electrical Unit Testing	15 days	May 17 '12	Jun 6 '12	378,379FF
378	Electrical Meter for Units	2 days	Jun 7 '12	Jun 8 '12	380FF
379	CATV Testing	5 days	May 31 '12	Jun 6 '12	
380	Water Sub Meters for Units	2 days	Jun 7 '12	Jun 8 '12	
381	**Inspection and Handing Over (Blk 211A)**	**75 days**	**May 2 '12**	**Aug 14 '12**	
382	Cleaning up	30 days	May 2 '12	Jun 12 '12	
383	Consultant Inspection and Defects Rectification	10 days	Jun 13 '12	Jun 26 '12	384
384	RI Inspection and Defects Rectification	10 days	Jun 27 '12	Jul 10 '12	385,77FF-14 days
385	TOP Inspection and Defects Rectification	10 days	Jul 11 '12	Jul 24 '12	386
386	BIU Inspection and Defects Rectification	10 days	Jul 25 '12	Aug 7 '12	387
387	Hand Over Blk 211A	5 days	Aug 8 '12	Aug 14 '12	
388					
389	**Phase 4 - Blk 211B (16 Storey)**	**420 days**	**Jan 27 '11**	**Sep 5 '12**	
390	**Structural Works**	**304 days**	**Jan 27 '11**	**Mar 27 '12**	**594FS-20 days**
391	**Substructure**	**40 days**	**Jan 27 '11**	**Mar 23 '11**	
392	Excavation of Pilecaps	20 days	Jan 27 '11	Feb 23 '11	393FS-20 days



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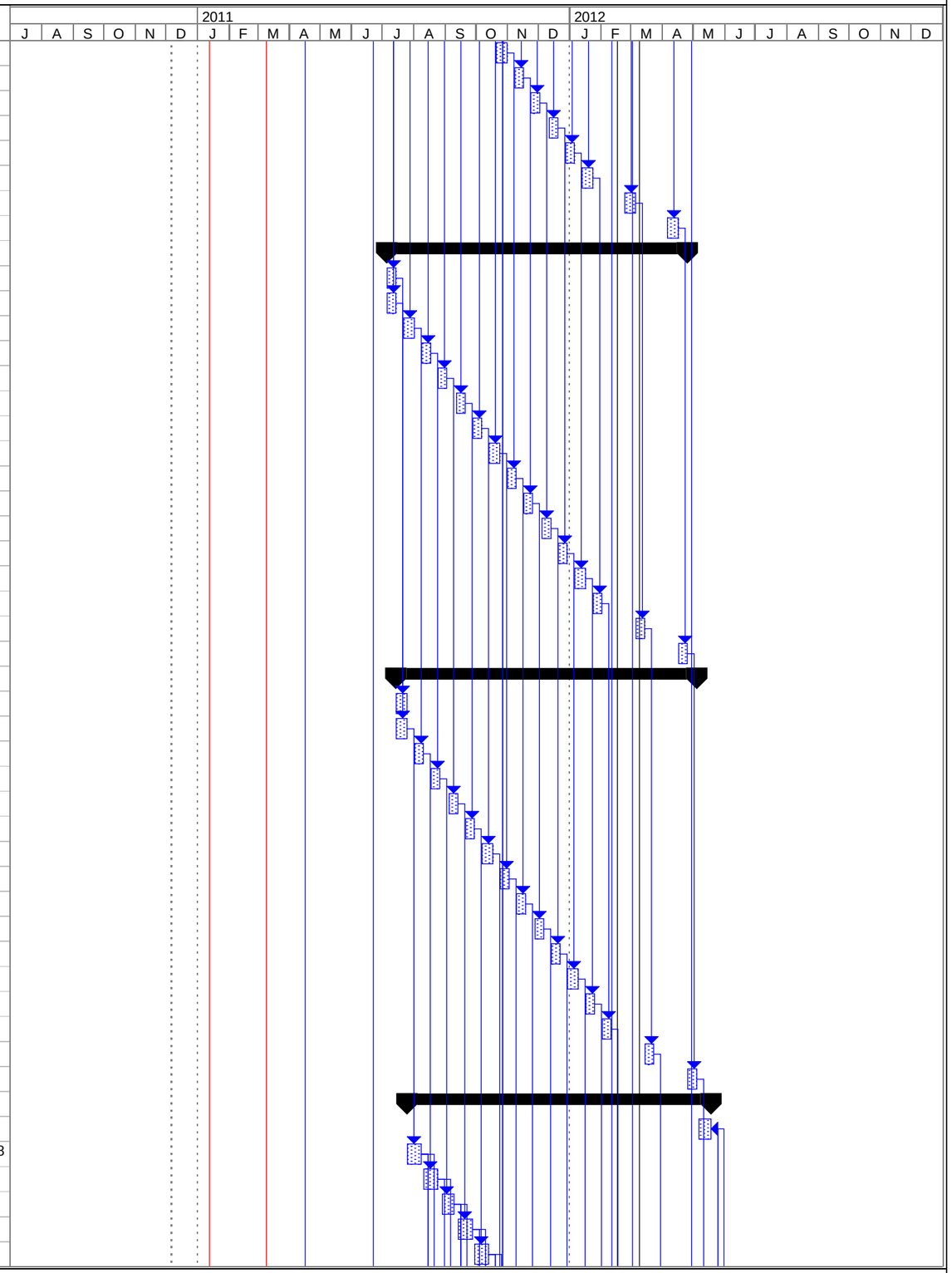
ID	Task Name	Duration	Start	Finish	Successors
393	Construction of Pilecaps	25 days	Jan 27 '11	Mar 2 '11	394SS+15 days
394	Stump & Ground Beams	25 days	Feb 17 '11	Mar 23 '11	397SS+10 days,39
395	Underground Pipe Laying	25 days	Feb 17 '11	Mar 23 '11	
396	**Superstructure**	**279 days**	**Mar 3 '11**	**Mar 27 '12**	
397	1st Sty Slab	20 days	Mar 3 '11	Mar 30 '11	398SS+15 days,58(
398	2nd Sty	25 days	Mar 24 '11	Apr 27 '11	399
399	3rd Sty	20 days	Apr 28 '11	May 25 '11	400
400	4th Sty	15 days	May 26 '11	Jun 15 '11	417,401,418,590
401	5th Sty	12 days	Jun 16 '11	Jul 1 '11	402,419
402	6th Sty	12 days	Jul 4 '11	Jul 19 '11	403,420
403	7th Sty	12 days	Jul 20 '11	Aug 4 '11	404,421
404	8th Sty	12 days	Aug 5 '11	Aug 22 '11	405,422
405	9th Sty	12 days	Aug 23 '11	Sep 7 '11	406,423
406	10th Sty	12 days	Sep 8 '11	Sep 23 '11	407,424
407	11th Sty	12 days	Sep 26 '11	Oct 11 '11	408,425
408	12th Sty	12 days	Oct 12 '11	Oct 27 '11	409,426
409	13th Sty	12 days	Oct 28 '11	Nov 14 '11	410,427
410	14th Sty	12 days	Nov 15 '11	Nov 30 '11	411,428
411	15th Sty	12 days	Dec 1 '11	Dec 16 '11	412,429
412	16th Sty	12 days	Dec 19 '11	Jan 3 '12	413,430
413	Roof	30 days	Jan 4 '12	Feb 14 '12	414,431,582FS+10
414	Water Tank Installation	30 days	Feb 15 '12	Mar 27 '12	432
415	**Architectural Wokrs**	**256 days**	**Jun 16 '11**	**Jun 7 '12**	
416	**Ceiling Skimming**	**211 days**	**Jun 16 '11**	**Apr 5 '12**	
417	1st Sty	7 days	Jun 16 '11	Jun 24 '11	434
418	2nd Sty	7 days	Jun 16 '11	Jun 24 '11	435
419	3rd Sty	7 days	Jul 4 '11	Jul 12 '11	436
420	4th Sty	7 days	Jul 20 '11	Jul 28 '11	437
421	5th Sty	7 days	Aug 5 '11	Aug 15 '11	438
422	6th Sty	7 days	Aug 23 '11	Aug 31 '11	439
423	7th Sty	7 days	Sep 8 '11	Sep 16 '11	440
424	8th Sty	7 days	Sep 26 '11	Oct 4 '11	441
425	9th Sty	7 days	Oct 12 '11	Oct 20 '11	442
426	10th Sty	7 days	Oct 28 '11	Nov 7 '11	443
427	11th Sty	7 days	Nov 15 '11	Nov 23 '11	444
428	12th Sty	7 days	Dec 1 '11	Dec 9 '11	445
429	13th Sty	7 days	Dec 19 '11	Dec 27 '11	446
430	14th Sty	7 days	Jan 4 '12	Jan 12 '12	447
431	15th Sty	7 days	Feb 15 '12	Feb 23 '12	448
432	16th Sty	7 days	Mar 28 '12	Apr 5 '12	449
433	**Brickworks/Blockworks/Partition Wall Erection**	**211 days**	**Jun 27 '11**	**Apr 16 '12**	
434	1st Sty	7 days	Jun 27 '11	Jul 5 '11	451
435	2nd Sty	7 days	Jun 27 '11	Jul 5 '11	452
436	3rd Sty	7 days	Jul 13 '11	Jul 21 '11	453
437	4th Sty	7 days	Jul 29 '11	Aug 8 '11	454
438	5th Sty	7 days	Aug 16 '11	Aug 24 '11	455
439	6th Sty	7 days	Sep 1 '11	Sep 9 '11	456
440	7th Sty	7 days	Sep 19 '11	Sep 27 '11	457
441	8th Sty	7 days	Oct 5 '11	Oct 13 '11	458



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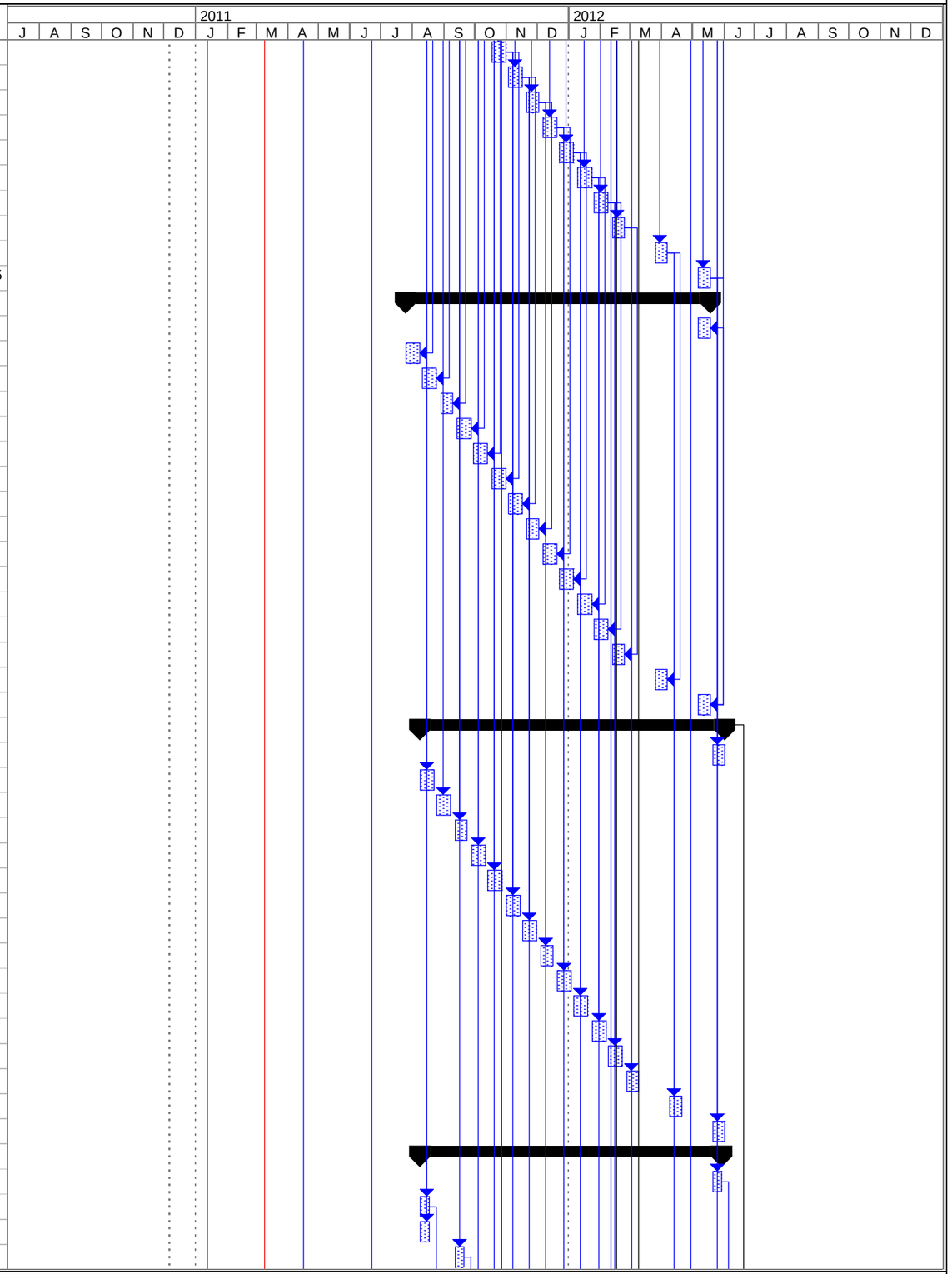
ID	Task Name	Duration	Start	Finish	Successors
442	9th Sty	7 days	Oct 21 '11	Oct 31 '11	459
443	10th Sty	7 days	Nov 8 '11	Nov 16 '11	460
444	11th Sty	7 days	Nov 24 '11	Dec 2 '11	461
445	12th Sty	7 days	Dec 12 '11	Dec 20 '11	462
446	13th Sty	7 days	Dec 28 '11	Jan 5 '12	463
447	14th Sty	7 days	Jan 13 '12	Jan 23 '12	464
448	15th Sty	7 days	Feb 24 '12	Mar 5 '12	465
449	16th Sty	7 days	Apr 6 '12	Apr 16 '12	466
450	**Door Frames**	**211 days**	**Jul 6 '11**	**Apr 25 '12**	
451	1st Sty	7 days	Jul 6 '11	Jul 14 '11	468
452	2nd Sty	7 days	Jul 6 '11	Jul 14 '11	469
453	3rd Sty	7 days	Jul 22 '11	Aug 1 '11	470
454	4th Sty	7 days	Aug 9 '11	Aug 17 '11	471
455	5th Sty	7 days	Aug 25 '11	Sep 2 '11	472
456	6th Sty	7 days	Sep 12 '11	Sep 20 '11	473
457	7th Sty	7 days	Sep 28 '11	Oct 6 '11	474
458	8th Sty	7 days	Oct 14 '11	Oct 24 '11	475
459	9th Sty	7 days	Nov 1 '11	Nov 9 '11	476
460	10th Sty	7 days	Nov 17 '11	Nov 25 '11	477
461	11th Sty	7 days	Dec 5 '11	Dec 13 '11	478
462	12th Sty	7 days	Dec 21 '11	Dec 29 '11	479
463	13th Sty	7 days	Jan 6 '12	Jan 16 '12	480
464	14th Sty	7 days	Jan 24 '12	Feb 1 '12	481
465	15th Sty	7 days	Mar 6 '12	Mar 14 '12	482
466	16th Sty	7 days	Apr 17 '12	Apr 25 '12	483
467	**M&E 1st Fix (Sanitary Pipes & Stacks, Water Pipes, Electrical C**	**211 days**	**Jul 15 '11**	**May 4 '12**	
468	1st Sty	7 days	Jul 15 '11	Jul 25 '11	
469	2nd Sty	7 days	Jul 15 '11	Jul 25 '11	486
470	3rd Sty	7 days	Aug 2 '11	Aug 10 '11	487
471	4th Sty	7 days	Aug 18 '11	Aug 26 '11	488
472	5th Sty	7 days	Sep 5 '11	Sep 13 '11	489
473	6th Sty	7 days	Sep 21 '11	Sep 29 '11	490
474	7th Sty	7 days	Oct 7 '11	Oct 17 '11	491
475	8th Sty	7 days	Oct 25 '11	Nov 2 '11	492
476	9th Sty	7 days	Nov 10 '11	Nov 18 '11	493
477	10th Sty	7 days	Nov 28 '11	Dec 6 '11	494
478	11th Sty	7 days	Dec 14 '11	Dec 22 '11	495
479	12th Sty	7 days	Dec 30 '11	Jan 9 '12	496
480	13th Sty	7 days	Jan 17 '12	Jan 25 '12	497
481	14th Sty	7 days	Feb 2 '12	Feb 10 '12	498
482	15th Sty	7 days	Mar 15 '12	Mar 23 '12	499
483	16th Sty	7 days	Apr 26 '12	May 4 '12	500
484	**Wall Tiles**	**214 days**	**Jul 26 '11**	**May 18 '12**	
485	1st Sty	10 days	May 7 '12	May 18 '12	519,536
486	2nd Sty	10 days	Jul 26 '11	Aug 8 '11	503FF,520,537,538
487	3rd Sty	10 days	Aug 11 '11	Aug 24 '11	504FF,521
488	4th Sty	10 days	Aug 29 '11	Sep 9 '11	505FF,522,539
489	5th Sty	10 days	Sep 14 '11	Sep 27 '11	506FF,523,540
490	6th Sty	10 days	Sep 30 '11	Oct 13 '11	507FF,524,541



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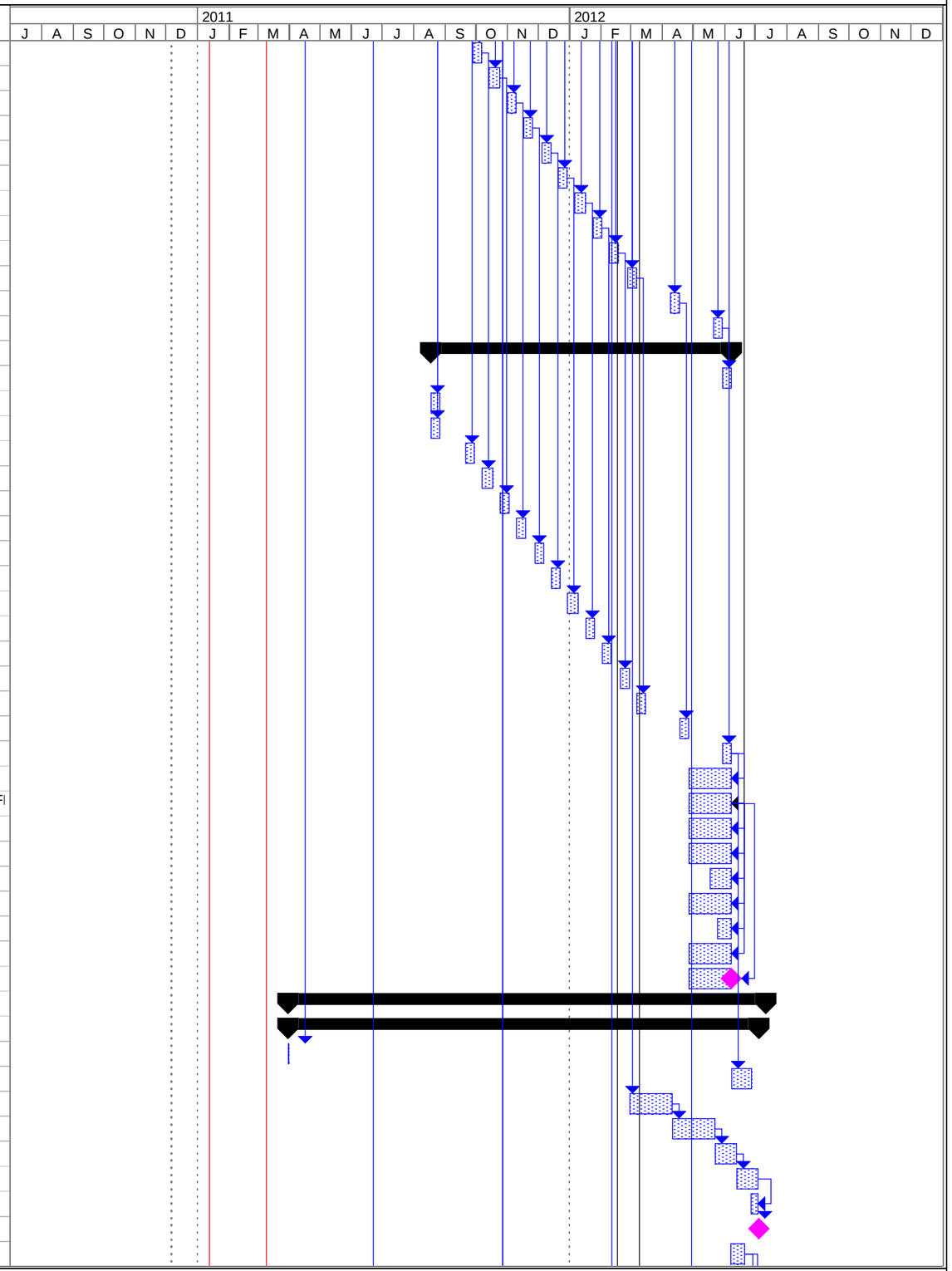
ID	Task Name	Duration	Start	Finish	Successors
491	7th Sty	10 days	Oct 18 '11	Oct 31 '11	508FF,525,542
492	8th Sty	10 days	Nov 3 '11	Nov 16 '11	509FF,526,543
493	9th Sty	10 days	Nov 21 '11	Dec 2 '11	510FF,527,544
494	10th Sty	10 days	Dec 7 '11	Dec 20 '11	511FF,528,545
495	11th Sty	10 days	Dec 23 '11	Jan 5 '12	512FF,529,546
496	12th Sty	10 days	Jan 10 '12	Jan 23 '12	513FF,530,547
497	13th Sty	10 days	Jan 26 '12	Feb 8 '12	514FF,531,548
498	14th Sty	10 days	Feb 13 '12	Feb 24 '12	515FF,532,549
499	15th Sty	10 days	Mar 26 '12	Apr 6 '12	516FF,533,550
500	16th Sty	10 days	May 7 '12	May 18 '12	517FF,534,551,485
501	**Wall Skimming/Plastering**	**214 days**	**Jul 26 '11**	**May 18 '12**	
502	1st Sty	10 days	May 7 '12	May 18 '12	
503	2nd Sty	10 days	Jul 26 '11	Aug 8 '11	
504	3rd Sty	10 days	Aug 11 '11	Aug 24 '11	
505	4th Sty	10 days	Aug 29 '11	Sep 9 '11	
506	5th Sty	10 days	Sep 14 '11	Sep 27 '11	
507	6th Sty	10 days	Sep 30 '11	Oct 13 '11	
508	7th Sty	10 days	Oct 18 '11	Oct 31 '11	
509	8th Sty	10 days	Nov 3 '11	Nov 16 '11	
510	9th Sty	10 days	Nov 21 '11	Dec 2 '11	
511	10th Sty	10 days	Dec 7 '11	Dec 20 '11	
512	11th Sty	10 days	Dec 23 '11	Jan 5 '12	
513	12th Sty	10 days	Jan 10 '12	Jan 23 '12	
514	13th Sty	10 days	Jan 26 '12	Feb 8 '12	
515	14th Sty	10 days	Feb 13 '12	Feb 24 '12	
516	15th Sty	10 days	Mar 26 '12	Apr 6 '12	
517	16th Sty	10 days	May 7 '12	May 18 '12	502FF
518	**Floor Tiles**	**214 days**	**Aug 9 '11**	**Jun 1 '12**	**570FF+4 days**
519	1st Storey	10 days	May 21 '12	Jun 1 '12	
520	2nd Sty	10 days	Aug 9 '11	Aug 22 '11	
521	3rd Sty	10 days	Aug 25 '11	Sep 7 '11	
522	4th Sty	10 days	Sep 12 '11	Sep 23 '11	
523	5th Sty	10 days	Sep 28 '11	Oct 11 '11	
524	6th Sty	10 days	Oct 14 '11	Oct 27 '11	
525	7th Sty	10 days	Nov 1 '11	Nov 14 '11	
526	8th Sty	10 days	Nov 17 '11	Nov 30 '11	
527	9th Sty	10 days	Dec 5 '11	Dec 16 '11	
528	10th Sty	10 days	Dec 21 '11	Jan 3 '12	
529	11th Sty	10 days	Jan 6 '12	Jan 19 '12	
530	12th Sty	10 days	Jan 24 '12	Feb 6 '12	
531	13th Sty	10 days	Feb 9 '12	Feb 22 '12	
532	14th Sty	10 days	Feb 27 '12	Mar 9 '12	
533	15th Sty	10 days	Apr 9 '12	Apr 20 '12	
534	16th Sty	10 days	May 21 '12	Jun 1 '12	
535	**Internal Painting**	**211 days**	**Aug 9 '11**	**May 29 '12**	
536	1st Sty	7 days	May 21 '12	May 29 '12	553
537	2nd Sty	7 days	Aug 9 '11	Aug 17 '11	554,555
538	3rd Sty	7 days	Aug 9 '11	Aug 17 '11	
539	4th Sty	7 days	Sep 12 '11	Sep 20 '11	556



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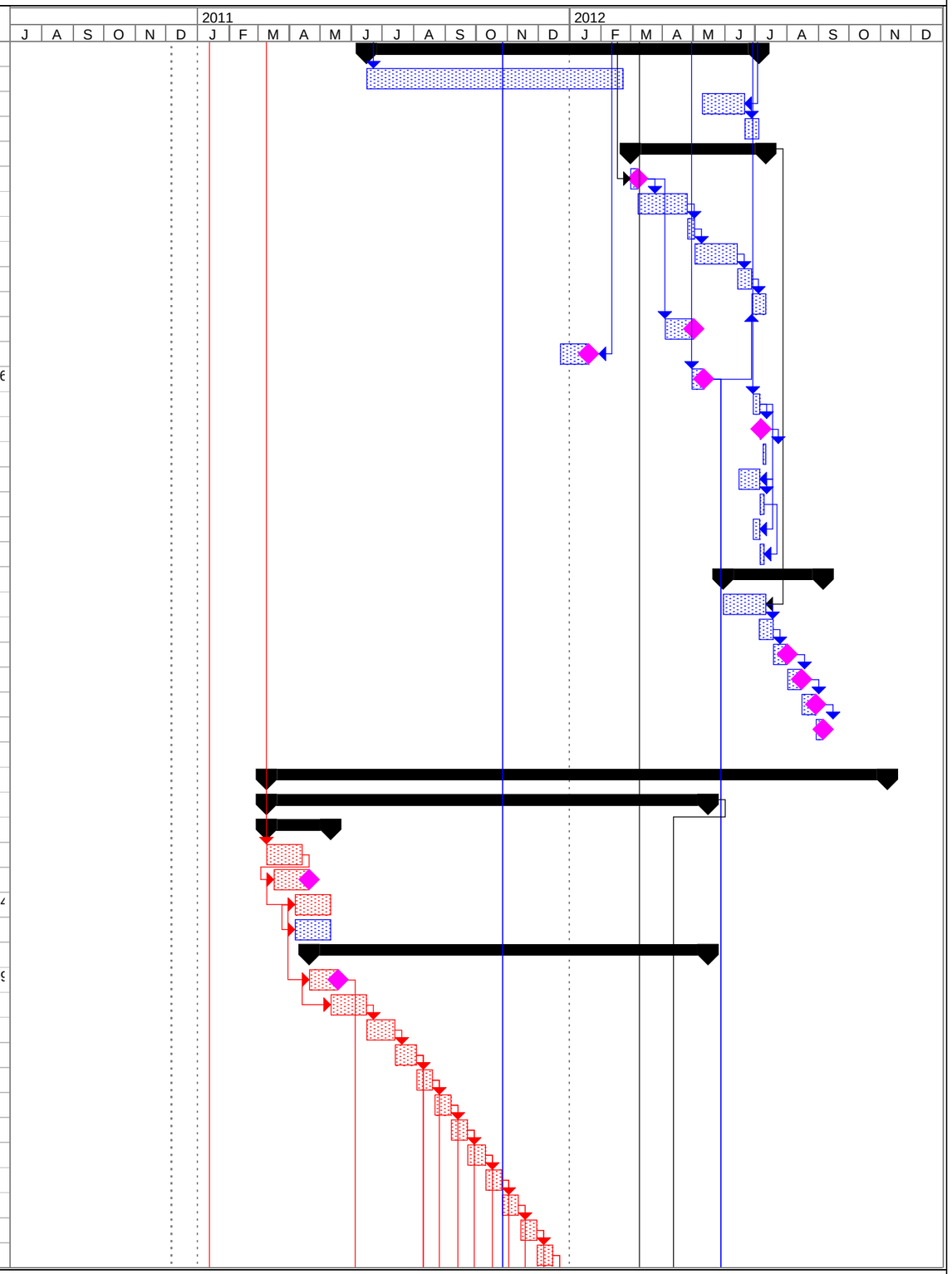
ID	Task Name	Duration	Start	Finish	Successors
540	5th Sty	7 days	Sep 28 '11	Oct 6 '11	557
541	6th Sty	7 days	Oct 14 '11	Oct 24 '11	558
542	7th Sty	7 days	Nov 1 '11	Nov 9 '11	559
543	8th Sty	7 days	Nov 17 '11	Nov 25 '11	560
544	9th Sty	7 days	Dec 5 '11	Dec 13 '11	561
545	10th Sty	7 days	Dec 21 '11	Dec 29 '11	562
546	11th Sty	7 days	Jan 6 '12	Jan 16 '12	563
547	12th Sty	7 days	Jan 24 '12	Feb 1 '12	564
548	13th Sty	7 days	Feb 9 '12	Feb 17 '12	565
549	14th Sty	7 days	Feb 27 '12	Mar 6 '12	566
550	15th Sty	7 days	Apr 9 '12	Apr 17 '12	567
551	16th Sty	7 days	May 21 '12	May 29 '12	568
552	**M&E 2nd Fix (Electrical Wiring, Gas Pipes)**	**211 days**	**Aug 18 '11**	**Jun 7 '12**	
553	1st Sty	7 days	May 30 '12	Jun 7 '12	
554	2nd Sty	7 days	Aug 18 '11	Aug 26 '11	
555	3rd Sty	7 days	Aug 18 '11	Aug 26 '11	
556	4th Sty	7 days	Sep 21 '11	Sep 29 '11	
557	5th Sty	7 days	Oct 7 '11	Oct 17 '11	
558	6th Sty	7 days	Oct 25 '11	Nov 2 '11	
559	7th Sty	7 days	Nov 10 '11	Nov 18 '11	
560	8th Sty	7 days	Nov 28 '11	Dec 6 '11	
561	9th Sty	7 days	Dec 14 '11	Dec 22 '11	
562	10th Sty	7 days	Dec 30 '11	Jan 9 '12	
563	11th Sty	7 days	Jan 17 '12	Jan 25 '12	
564	12th Sty	7 days	Feb 2 '12	Feb 10 '12	
565	13th Sty	7 days	Feb 20 '12	Feb 28 '12	
566	14th Sty	7 days	Mar 7 '12	Mar 15 '12	
567	15th Sty	7 days	Apr 18 '12	Apr 26 '12	
568	16th Sty	7 days	May 30 '12	Jun 7 '12	569FF,581
569	Ceiling/Aluminium Boards Installation	30 days	Apr 27 '12	Jun 7 '12	
570	Door Panels Installation	30 days	Apr 27 '12	Jun 7 '12	571FF,572FF,575F
571	M & E Fittings Installations (Sanitsry Wares, Taps, Electrical Fittings	30 days	Apr 27 '12	Jun 7 '12	
572	Aluminium Window/Glazing Installation	30 days	Apr 27 '12	Jun 7 '12	
573	Blast Door Panel Installation	15 days	May 18 '12	Jun 7 '12	
574	Aluminium/Metal/Steel Works	30 days	Apr 27 '12	Jun 7 '12	
575	Refuse Handling Equipment	10 days	May 25 '12	Jun 7 '12	
576	External Plaster/Skimming	30 days	Apr 27 '12	Jun 7 '12	
577	External Painting	30 days	Apr 27 '12	Jun 7 '12	
578	**M & E Works**	**335 days**	**Mar 31 '11**	**Jul 11 '12**	
579	**Sanitary & Plumbing Works**	**330 days**	**Mar 31 '11**	**Jul 4 '12**	
580	Installation of suction tank	1 day	Mar 31 '11	Mar 31 '11	
581	Installation of Transfer and Booster Pumps and Control Panels	14 days	Jun 8 '12	Jun 27 '12	
582	IC Lines	30 days	Feb 29 '12	Apr 10 '12	583
583	IC Cover Install	30 days	Apr 11 '12	May 22 '12	584
584	Cleaning Up and Water Test	15 days	May 23 '12	Jun 12 '12	585
585	Inspections for Handover	15 days	Jun 13 '12	Jul 3 '12	586FF
586	PUB Water Inspection	5 days	Jun 27 '12	Jul 3 '12	587
587	PUB Water Turn On & Bulk Meter	1 day	Jul 4 '12	Jul 4 '12	
588	CBPU Inspection and Clearance	10 days	Jun 7 '12	Jun 20 '12	591FF,603



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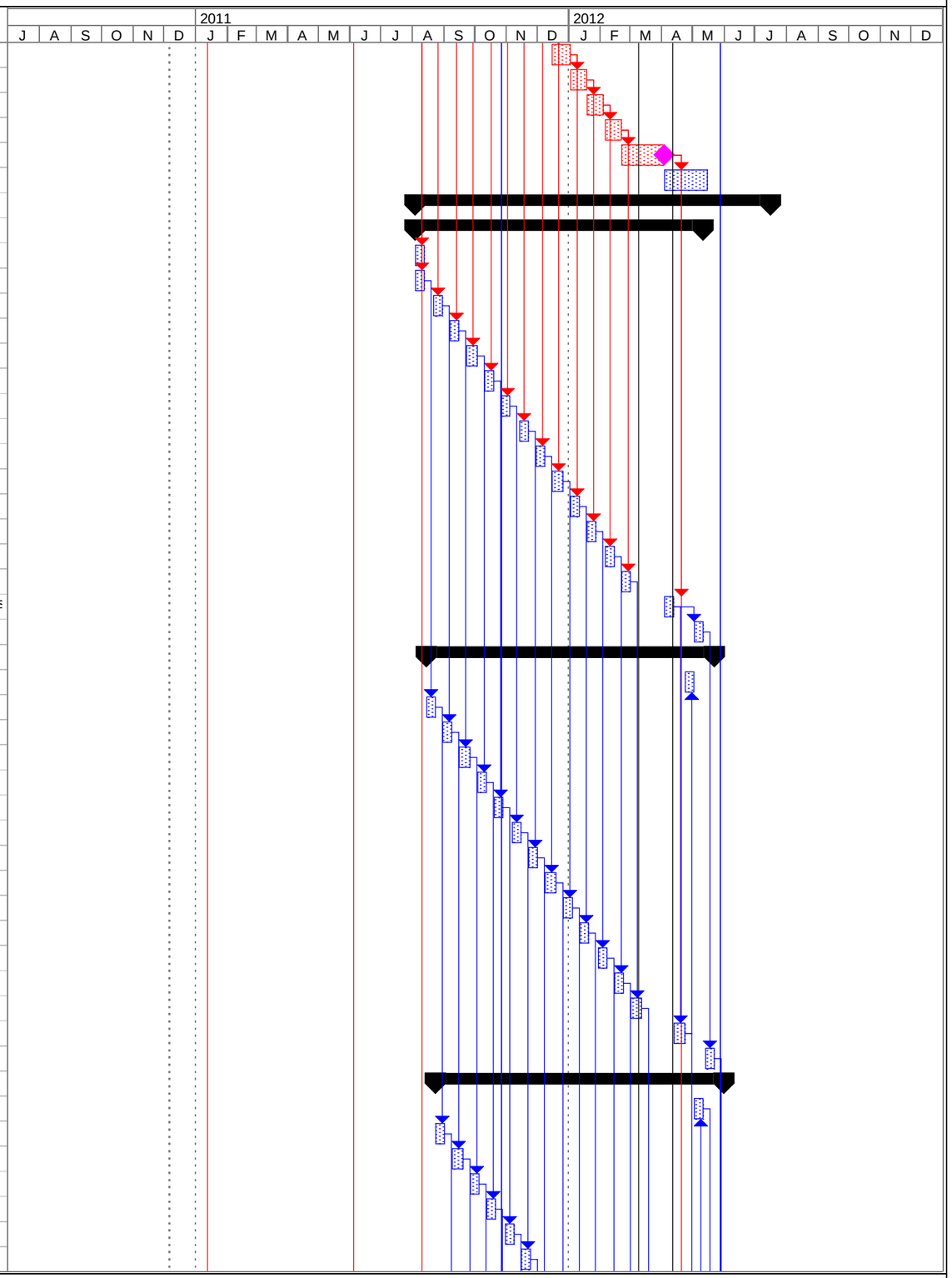
ID	Task Name	Duration	Start	Finish	Successors
589	**Dry Riser/Hosereel Installation**	**275 days**	**Jun 16 '11**	**Jul 4 '12**	
590	Piping Install	180 days	Jun 16 '11	Feb 22 '12	
591	Breeching Inlet/Hosereel Installation	30 days	May 10 '12	Jun 20 '12	592
592	Testing and Commissioning	10 days	Jun 21 '12	Jul 4 '12	
593	**Lift**	**95 days**	**Mar 1 '12**	**Jul 11 '12**	**611FF**
594	Handing Over of Liftshaft to Lift Contractor	5 days	Mar 1 '12	Mar 7 '12	595,600
595	Alignment Checking and Installation of Guiderails and Door Jam	35 days	Mar 8 '12	Apr 25 '12	596
596	Bricking up	5 days	Apr 26 '12	May 2 '12	597
597	Liftcar and Door Panels Install	30 days	May 3 '12	Jun 13 '12	598
598	Lift Lobby Tiling/Screeding	10 days	Jun 14 '12	Jun 27 '12	599
599	Testing and Commissioning	10 days	Jun 28 '12	Jul 11 '12	
600	Pump Room Completion/Handover	20 days	Apr 4 '12	May 1 '12	
601	TER Room Inspection and Handover	20 days	Dec 23 '11	Jan 19 '12	
602	CSR Room Electricity Turn On	10 days	Apr 30 '12	May 11 '12	831FS+10 days,106
603	Gas Pressure Test	5 days	Jun 29 '12	Jul 5 '12	604,606FF
604	Gas Turn On	1 day	Jul 6 '12	Jul 6 '12	605
605	Gas Sub Meter to Units	3 days	Jul 9 '12	Jul 11 '12	
606	Electrical Unit Testing	15 days	Jun 15 '12	Jul 5 '12	608FF,607
607	Electrical Meter for Units	2 days	Jul 6 '12	Jul 9 '12	609FF
608	CATV Testing	5 days	Jun 29 '12	Jul 5 '12	
609	Water Sub Meters for Units	2 days	Jul 6 '12	Jul 9 '12	
610	**Inspection and Handing Over (Blk 211B)**	**70 days**	**May 31 '12**	**Sep 5 '12**	
611	Cleaning up	30 days	May 31 '12	Jul 11 '12	612FS-5 days
612	Consultant Inspection and Defects Rectification	10 days	Jul 5 '12	Jul 18 '12	613
613	RI Inspection and Defects Rectification	10 days	Jul 19 '12	Aug 1 '12	614
614	TOP Inspection and Defects Rectification	10 days	Aug 2 '12	Aug 15 '12	615
615	BIU Inspection and Defects Rectification	10 days	Aug 16 '12	Aug 29 '12	616
616	Hand Over Blk 211B	5 days	Aug 30 '12	Sep 5 '12	
617					
618	**Phase 5 - Blk 211C (16 Storey)**	**435 days**	**Mar 10 '11**	**Nov 7 '12**	
619	**Structural Works**	**309 days**	**Mar 10 '11**	**May 15 '12**	**823FS-15 days**
620	**Substructure**	**45 days**	**Mar 10 '11**	**May 11 '11**	
621	Excavation of Pilecaps	25 days	Mar 10 '11	Apr 13 '11	622FS-20 days
622	Construction of Pilecaps	25 days	Mar 17 '11	Apr 20 '11	623SS+15 days
623	Stump & Ground Beams	25 days	Apr 7 '11	May 11 '11	626SS+10 days,624
624	Underground Pipe Laying	25 days	Apr 7 '11	May 11 '11	
625	**Superstructure**	**279 days**	**Apr 21 '11**	**May 15 '12**	
626	1st Sty Slab	20 days	Apr 21 '11	May 18 '11	627SS+15 days,809
627	2nd Sty	25 days	May 12 '11	Jun 15 '11	628
628	3rd Sty	20 days	Jun 16 '11	Jul 13 '11	629
629	4th Sty	15 days	Jul 14 '11	Aug 3 '11	646,630,647,819
630	5th Sty	12 days	Aug 4 '11	Aug 19 '11	631,648
631	6th Sty	12 days	Aug 22 '11	Sep 6 '11	632,649
632	7th Sty	12 days	Sep 7 '11	Sep 22 '11	633,650
633	8th Sty	12 days	Sep 23 '11	Oct 10 '11	634,651
634	9th Sty	12 days	Oct 11 '11	Oct 26 '11	635,652
635	10th Sty	12 days	Oct 27 '11	Nov 11 '11	636,653
636	11th Sty	12 days	Nov 14 '11	Nov 29 '11	637,654
637	12th Sty	12 days	Nov 30 '11	Dec 15 '11	638,655



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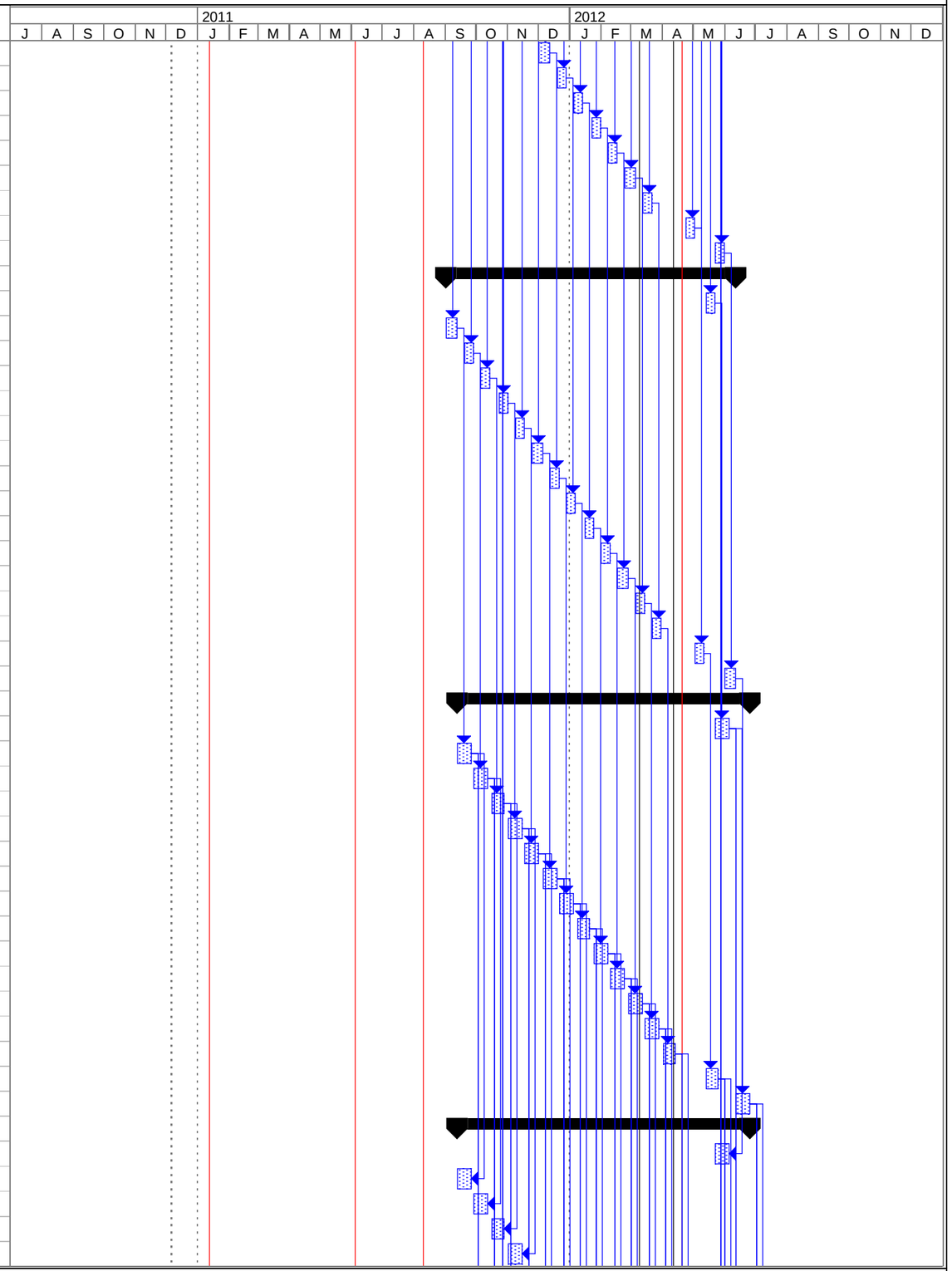
ID	Task Name	Duration	Start	Finish	Successors
638	13th Sty	12 days	Dec 16 '11	Jan 2 '12	639,656
639	14th Sty	12 days	Jan 3 '12	Jan 18 '12	640,657
640	15th Sty	12 days	Jan 19 '12	Feb 3 '12	641,658
641	16th Sty	12 days	Feb 6 '12	Feb 21 '12	642,659
642	Roof	30 days	Feb 22 '12	Apr 3 '12	643,660,811
643	Water Tank Installation	30 days	Apr 4 '12	May 15 '12	
644	**Architectural Wokrs**	**248 days**	**Aug 4 '11**	**Jul 16 '12**	
645	**Ceiling Skimming**	**202 days**	**Aug 4 '11**	**May 11 '12**	
646	1st Sty	7 days	Aug 4 '11	Aug 12 '11	
647	2nd Sty	7 days	Aug 4 '11	Aug 12 '11	664
648	3rd Sty	7 days	Aug 22 '11	Aug 30 '11	665
649	4th Sty	7 days	Sep 7 '11	Sep 15 '11	666
650	5th Sty	7 days	Sep 23 '11	Oct 3 '11	667
651	6th Sty	7 days	Oct 11 '11	Oct 19 '11	668
652	7th Sty	7 days	Oct 27 '11	Nov 4 '11	669
653	8th Sty	7 days	Nov 14 '11	Nov 22 '11	670
654	9th Sty	7 days	Nov 30 '11	Dec 8 '11	671
655	10th Sty	7 days	Dec 16 '11	Dec 26 '11	672
656	11th Sty	7 days	Jan 3 '12	Jan 11 '12	673
657	12th Sty	7 days	Jan 19 '12	Jan 27 '12	674
658	13th Sty	7 days	Feb 6 '12	Feb 14 '12	675
659	14th Sty	7 days	Feb 22 '12	Mar 1 '12	676
660	15th Sty	7 days	Apr 4 '12	Apr 12 '12	677,661FS+14 days
661	16th Sty	7 days	May 3 '12	May 11 '12	678
662	**Brickworks/Blockworks/Partition Wall Erection**	**202 days**	**Aug 15 '11**	**May 22 '12**	
663	1st Sty	7 days	Apr 24 '12	May 2 '12	
664	2nd Sty	7 days	Aug 15 '11	Aug 23 '11	681
665	3rd Sty	7 days	Aug 31 '11	Sep 8 '11	682
666	4th Sty	7 days	Sep 16 '11	Sep 26 '11	683
667	5th Sty	7 days	Oct 4 '11	Oct 12 '11	684
668	6th Sty	7 days	Oct 20 '11	Oct 28 '11	685
669	7th Sty	7 days	Nov 7 '11	Nov 15 '11	686
670	8th Sty	7 days	Nov 23 '11	Dec 1 '11	687
671	9th Sty	7 days	Dec 9 '11	Dec 19 '11	688
672	10th Sty	7 days	Dec 27 '11	Jan 4 '12	689
673	11th Sty	7 days	Jan 12 '12	Jan 20 '12	690
674	12th Sty	7 days	Jan 30 '12	Feb 7 '12	691
675	13th Sty	7 days	Feb 15 '12	Feb 23 '12	692
676	14th Sty	7 days	Mar 2 '12	Mar 12 '12	693
677	15th Sty	7 days	Apr 13 '12	Apr 23 '12	694,663
678	16th Sty	7 days	May 14 '12	May 22 '12	695
679	**Door Frames**	**202 days**	**Aug 24 '11**	**May 31 '12**	
680	1st Sty	7 days	May 3 '12	May 11 '12	697
681	2nd Sty	7 days	Aug 24 '11	Sep 1 '11	698
682	3rd Sty	7 days	Sep 9 '11	Sep 19 '11	699
683	4th Sty	7 days	Sep 27 '11	Oct 5 '11	700
684	5th Sty	7 days	Oct 13 '11	Oct 21 '11	701
685	6th Sty	7 days	Oct 31 '11	Nov 8 '11	702
686	7th Sty	7 days	Nov 16 '11	Nov 24 '11	703



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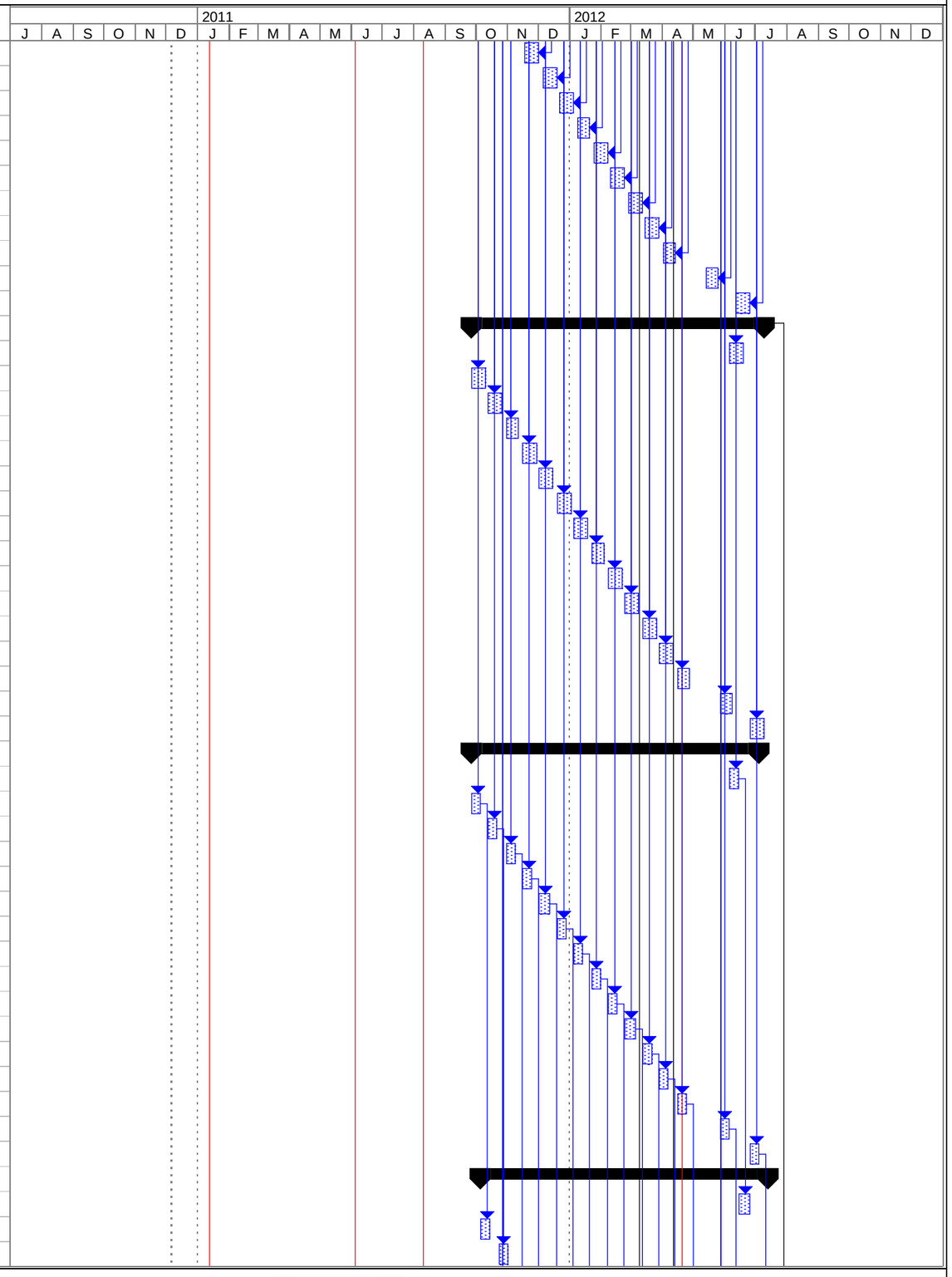
ID	Task Name	Duration	Start	Finish	Successors
687	8th Sty	7 days	Dec 2 '11	Dec 12 '11	704
688	9th Sty	7 days	Dec 20 '11	Dec 28 '11	705
689	10th Sty	7 days	Jan 5 '12	Jan 13 '12	706
690	11th Sty	7 days	Jan 23 '12	Jan 31 '12	707
691	12th Sty	7 days	Feb 8 '12	Feb 16 '12	708
692	13th Sty	7 days	Feb 24 '12	Mar 5 '12	709
693	14th Sty	7 days	Mar 13 '12	Mar 21 '12	710
694	15th Sty	7 days	Apr 24 '12	May 2 '12	711,680
695	16th Sty	7 days	May 23 '12	May 31 '12	712
696	**M&E 1st Fix (Sanitary Pipes & Stacks, Water Pipes, Electrical C**	**202 days**	**Sep 2 '11**	**Jun 11 '12**	
697	1st Sty	7 days	May 14 '12	May 22 '12	714
698	2nd Sty	7 days	Sep 2 '11	Sep 12 '11	715
699	3rd Sty	7 days	Sep 20 '11	Sep 28 '11	716
700	4th Sty	7 days	Oct 6 '11	Oct 14 '11	717
701	5th Sty	7 days	Oct 24 '11	Nov 1 '11	718
702	6th Sty	7 days	Nov 9 '11	Nov 17 '11	719
703	7th Sty	7 days	Nov 25 '11	Dec 5 '11	720
704	8th Sty	7 days	Dec 13 '11	Dec 21 '11	721
705	9th Sty	7 days	Dec 29 '11	Jan 6 '12	722
706	10th Sty	7 days	Jan 16 '12	Jan 24 '12	723
707	11th Sty	7 days	Feb 1 '12	Feb 9 '12	724
708	12th Sty	7 days	Feb 17 '12	Feb 27 '12	725
709	13th Sty	7 days	Mar 6 '12	Mar 14 '12	726
710	14th Sty	7 days	Mar 22 '12	Mar 30 '12	727
711	15th Sty	7 days	May 3 '12	May 11 '12	728
712	16th Sty	7 days	Jun 1 '12	Jun 11 '12	729
713	**Wall Tiles**	**205 days**	**Sep 13 '11**	**Jun 25 '12**	
714	1st Sty	10 days	May 23 '12	Jun 5 '12	731FF,748,765
715	2nd Sty	10 days	Sep 13 '11	Sep 26 '11	732FF,749,766
716	3rd Sty	10 days	Sep 29 '11	Oct 12 '11	750,767,733FF
717	4th Sty	10 days	Oct 17 '11	Oct 28 '11	734FF,751,768
718	5th Sty	10 days	Nov 2 '11	Nov 15 '11	735FF,752,769
719	6th Sty	10 days	Nov 18 '11	Dec 1 '11	736FF,753,770
720	7th Sty	10 days	Dec 6 '11	Dec 19 '11	737FF,754,771
721	8th Sty	10 days	Dec 22 '11	Jan 4 '12	738FF,755,772
722	9th Sty	10 days	Jan 9 '12	Jan 20 '12	739FF,756,773
723	10th Sty	10 days	Jan 25 '12	Feb 7 '12	740FF,757,774
724	11th Sty	10 days	Feb 10 '12	Feb 23 '12	741FF,758,775
725	12th Sty	10 days	Feb 28 '12	Mar 12 '12	742FF,759,776
726	13th Sty	10 days	Mar 15 '12	Mar 28 '12	743FF,760,777
727	14th Sty	10 days	Apr 2 '12	Apr 13 '12	744FF,761,778
728	15th Sty	10 days	May 14 '12	May 25 '12	745FF,762,779
729	16th Sty	10 days	Jun 12 '12	Jun 25 '12	746FF,763,780
730	**Wall Skimming/Plastering**	**205 days**	**Sep 13 '11**	**Jun 25 '12**	
731	1st Sty	10 days	May 23 '12	Jun 5 '12	
732	2nd Sty	10 days	Sep 13 '11	Sep 26 '11	
733	3rd Sty	10 days	Sep 29 '11	Oct 12 '11	
734	4th Sty	10 days	Oct 17 '11	Oct 28 '11	
735	5th Sty	10 days	Nov 2 '11	Nov 15 '11	



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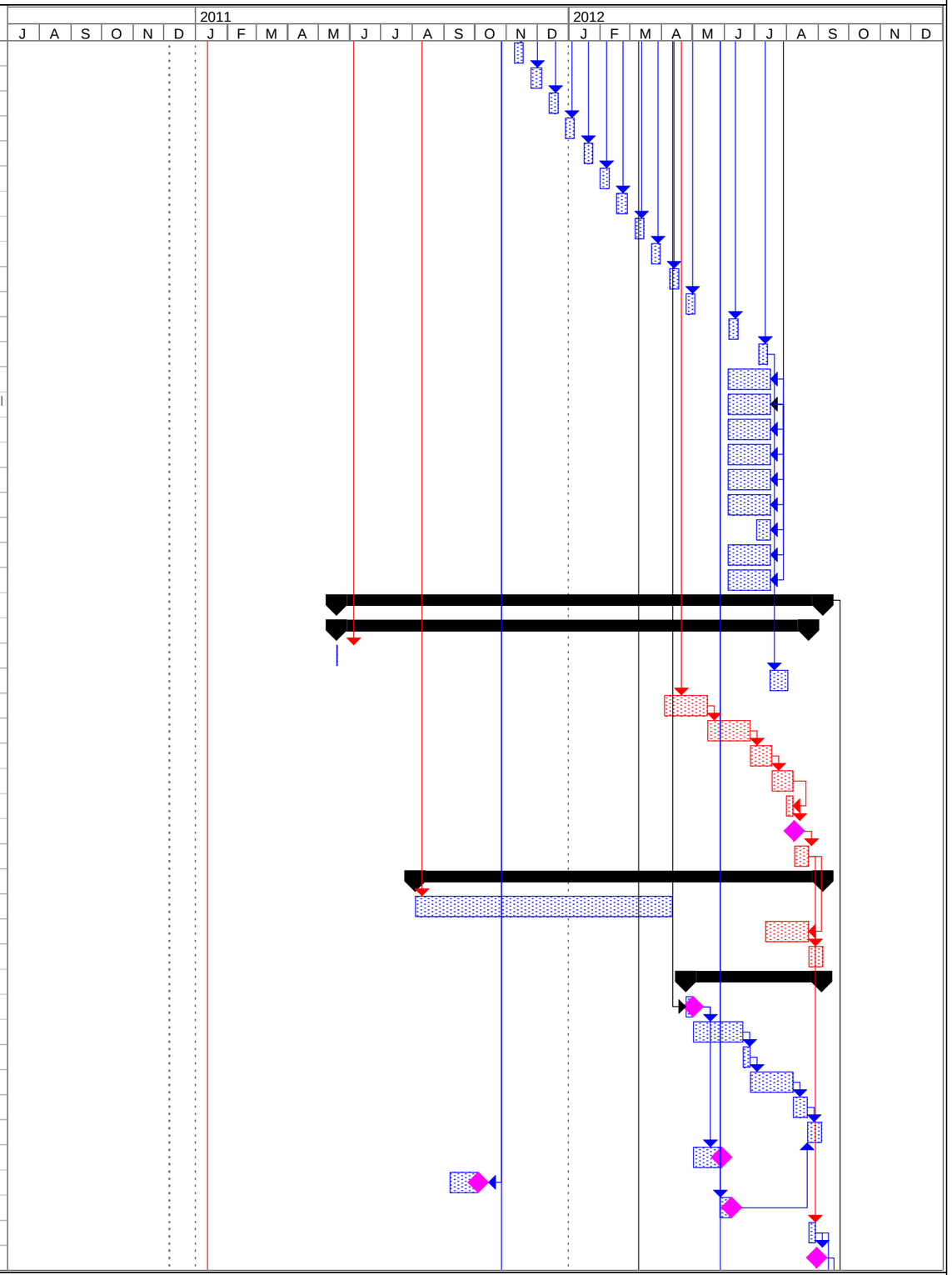
ID	Task Name	Duration	Start	Finish	Successors
736	6th Sty	10 days	Nov 18 '11	Dec 1 '11	
737	7th Sty	10 days	Dec 6 '11	Dec 19 '11	
738	8th Sty	10 days	Dec 22 '11	Jan 4 '12	
739	9th Sty	10 days	Jan 9 '12	Jan 20 '12	
740	10th Sty	10 days	Jan 25 '12	Feb 7 '12	
741	11th Sty	10 days	Feb 10 '12	Feb 23 '12	
742	12th Sty	10 days	Feb 28 '12	Mar 12 '12	
743	13th Sty	10 days	Mar 15 '12	Mar 28 '12	
744	14th Sty	10 days	Apr 2 '12	Apr 13 '12	
745	15th Sty	10 days	May 14 '12	May 25 '12	
746	16th Sty	10 days	Jun 12 '12	Jun 25 '12	
747	**Floor Tiles**	**205 days**	**Sep 27 '11**	**Jul 9 '12**	**799FF+5 days**
748	1st Storey	10 days	Jun 6 '12	Jun 19 '12	
749	2nd Sty	10 days	Sep 27 '11	Oct 10 '11	
750	3rd Sty	10 days	Oct 13 '11	Oct 26 '11	
751	4th Sty	10 days	Oct 31 '11	Nov 11 '11	
752	5th Sty	10 days	Nov 16 '11	Nov 29 '11	
753	6th Sty	10 days	Dec 2 '11	Dec 15 '11	
754	7th Sty	10 days	Dec 20 '11	Jan 2 '12	
755	8th Sty	10 days	Jan 5 '12	Jan 18 '12	
756	9th Sty	10 days	Jan 23 '12	Feb 3 '12	
757	10th Sty	10 days	Feb 8 '12	Feb 21 '12	
758	11th Sty	10 days	Feb 24 '12	Mar 8 '12	
759	12th Sty	10 days	Mar 13 '12	Mar 26 '12	
760	13th Sty	10 days	Mar 29 '12	Apr 11 '12	
761	14th Sty	10 days	Apr 16 '12	Apr 27 '12	
762	15th Sty	10 days	May 28 '12	Jun 8 '12	
763	16th Sty	10 days	Jun 26 '12	Jul 9 '12	
764	**Internal Painting**	**202 days**	**Sep 27 '11**	**Jul 4 '12**	
765	1st Sty	7 days	Jun 6 '12	Jun 14 '12	782
766	2nd Sty	7 days	Sep 27 '11	Oct 5 '11	783
767	3rd Sty	7 days	Oct 13 '11	Oct 21 '11	784
768	4th Sty	7 days	Oct 31 '11	Nov 8 '11	785
769	5th Sty	7 days	Nov 16 '11	Nov 24 '11	786
770	6th Sty	7 days	Dec 2 '11	Dec 12 '11	787
771	7th Sty	7 days	Dec 20 '11	Dec 28 '11	788
772	8th Sty	7 days	Jan 5 '12	Jan 13 '12	789
773	9th Sty	7 days	Jan 23 '12	Jan 31 '12	790
774	10th Sty	7 days	Feb 8 '12	Feb 16 '12	791
775	11th Sty	7 days	Feb 24 '12	Mar 5 '12	792
776	12th Sty	7 days	Mar 13 '12	Mar 21 '12	793
777	13th Sty	7 days	Mar 29 '12	Apr 6 '12	794
778	14th Sty	7 days	Apr 16 '12	Apr 24 '12	795
779	15th Sty	7 days	May 28 '12	Jun 5 '12	796
780	16th Sty	7 days	Jun 26 '12	Jul 4 '12	797
781	**M&E 2nd Fix (Electrical Wiring, Gas Pipes)**	**202 days**	**Oct 6 '11**	**Jul 13 '12**	
782	1st Sty	7 days	Jun 15 '12	Jun 25 '12	
783	2nd Sty	7 days	Oct 6 '11	Oct 14 '11	
784	3rd Sty	7 days	Oct 24 '11	Nov 1 '11	



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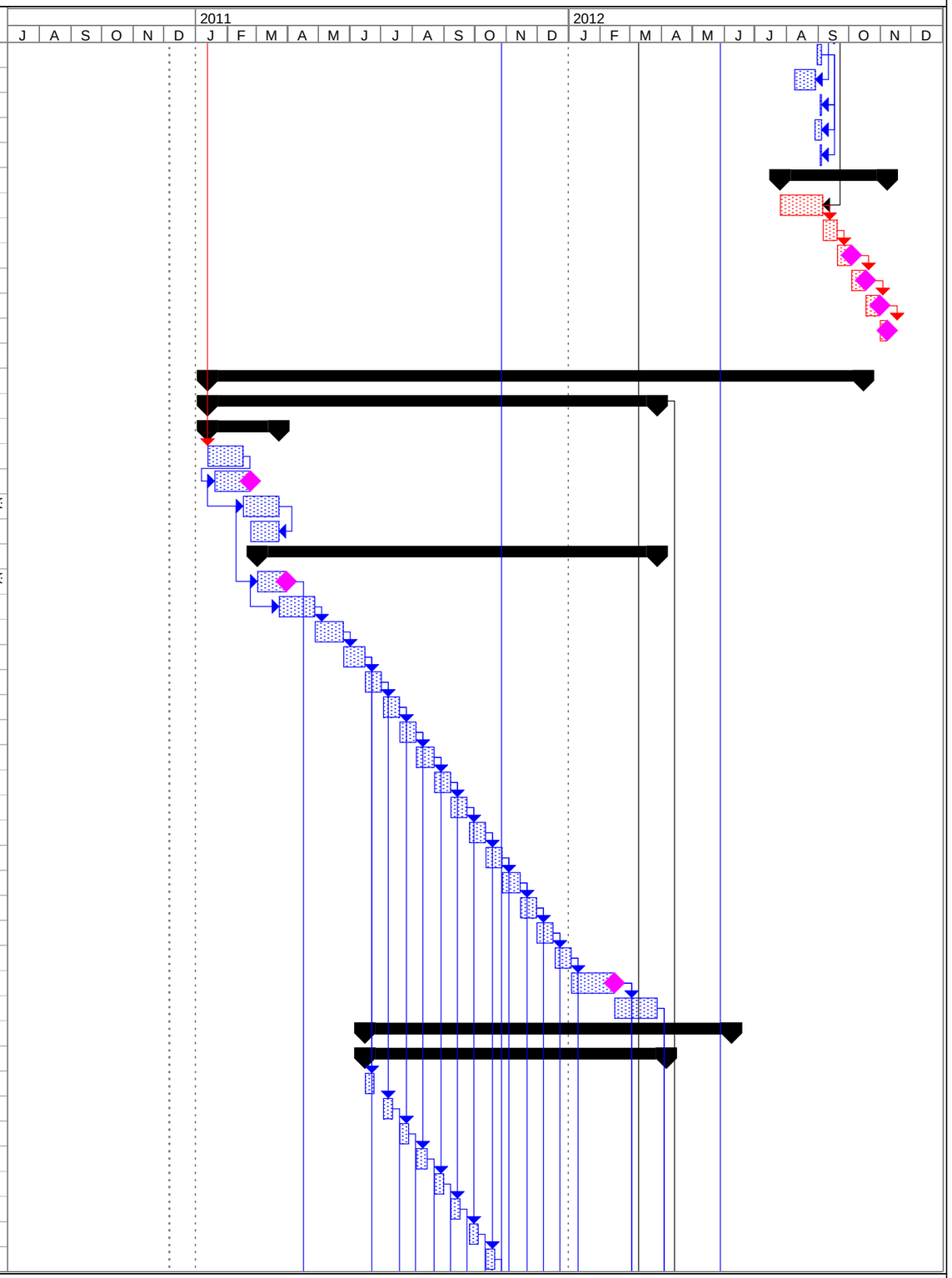
ID	Task Name	Duration	Start	Finish	Successors
785	4th Sty	7 days	Nov 9 '11	Nov 17 '11	
786	5th Sty	7 days	Nov 25 '11	Dec 5 '11	
787	6th Sty	7 days	Dec 13 '11	Dec 21 '11	
788	7th Sty	7 days	Dec 29 '11	Jan 6 '12	
789	8th Sty	7 days	Jan 16 '12	Jan 24 '12	
790	9th Sty	7 days	Feb 1 '12	Feb 9 '12	
791	10th Sty	7 days	Feb 17 '12	Feb 27 '12	
792	11th Sty	7 days	Mar 6 '12	Mar 14 '12	
793	12th Sty	7 days	Mar 22 '12	Mar 30 '12	
794	13th Sty	7 days	Apr 9 '12	Apr 17 '12	
795	14th Sty	7 days	Apr 25 '12	May 3 '12	
796	15th Sty	7 days	Jun 6 '12	Jun 14 '12	
797	16th Sty	7 days	Jul 5 '12	Jul 13 '12	810
798	Ceiling/Aluminium Boards Installation	30 days	Jun 5 '12	Jul 16 '12	
799	Door Panels Installation	30 days	Jun 5 '12	Jul 16 '12	800FF,801FF,804F
800	M & E Fittings Installations (Sanitsry Wares, Taps, Electrical Fittings	30 days	Jun 5 '12	Jul 16 '12	
801	Aluminium Window/Glazing Installation	30 days	Jun 5 '12	Jul 16 '12	
802	Blast Door Panel Installation	30 days	Jun 5 '12	Jul 16 '12	
803	Aluminium/Metal/Steel Works	30 days	Jun 5 '12	Jul 16 '12	
804	Refuse Handling Equipment	10 days	Jul 3 '12	Jul 16 '12	
805	External Plaster/Skimming	30 days	Jun 5 '12	Jul 16 '12	
806	External Painting	30 days	Jun 5 '12	Jul 16 '12	
807	**M & E Works**	**340 days**	**May 19 '11**	**Sep 5 '12**	**840FF**
808	**Sanitary & Plumbing Works**	**330 days**	**May 19 '11**	**Aug 22 '12**	
809	Installation of suction tank	1 day	May 19 '11	May 19 '11	
810	Installation of Transfer and Booster Pumps and Control Panels	14 days	Jul 16 '12	Aug 2 '12	
811	IC Lines	30 days	Apr 4 '12	May 15 '12	812
812	IC Cover Install	30 days	May 16 '12	Jun 26 '12	813
813	Cleaning Up and Water Test	15 days	Jun 27 '12	Jul 17 '12	814
814	Inspections for Handover	15 days	Jul 18 '12	Aug 7 '12	815FF
815	PUB Water Inspection	5 days	Aug 1 '12	Aug 7 '12	816
816	PUB Water Turn On & Bulk Meter	1 day	Aug 8 '12	Aug 8 '12	817
817	CBPU Inspection and Clearance	10 days	Aug 9 '12	Aug 22 '12	820FF,832
818	**Dry Riser/Hosereel Installation**	**285 days**	**Aug 4 '11**	**Sep 5 '12**	
819	Piping Install	180 days	Aug 4 '11	Apr 11 '12	
820	Breeching Inlet/Hosereel Installation	30 days	Jul 12 '12	Aug 22 '12	821
821	Testing and Commissioning	10 days	Aug 23 '12	Sep 5 '12	
822	**Lift**	**95 days**	**Apr 25 '12**	**Sep 4 '12**	
823	Handing Over of Liftshaft to Lift Contractor	5 days	Apr 25 '12	May 1 '12	824,829
824	Alignment Checking and Installation of Guiderails and Door Jam	35 days	May 2 '12	Jun 19 '12	825
825	Bricking up	5 days	Jun 20 '12	Jun 26 '12	826
826	Liftcar and Door Panels Install	30 days	Jun 27 '12	Aug 7 '12	827
827	Lift Lobby Tiling/Screeding	10 days	Aug 8 '12	Aug 21 '12	828
828	Testing and Commissioning	10 days	Aug 22 '12	Sep 4 '12	
829	Pump Room Completion/Handover	20 days	May 2 '12	May 29 '12	
830	TER Room Inspection and Handover	20 days	Sep 7 '11	Oct 4 '11	
831	CSR Room Electricity Turn On	10 days	May 28 '12	Jun 8 '12	828
832	Gas Pressure Test	5 days	Aug 23 '12	Aug 29 '12	833,835FF
833	Gas Turn On	1 day	Aug 30 '12	Aug 30 '12	834



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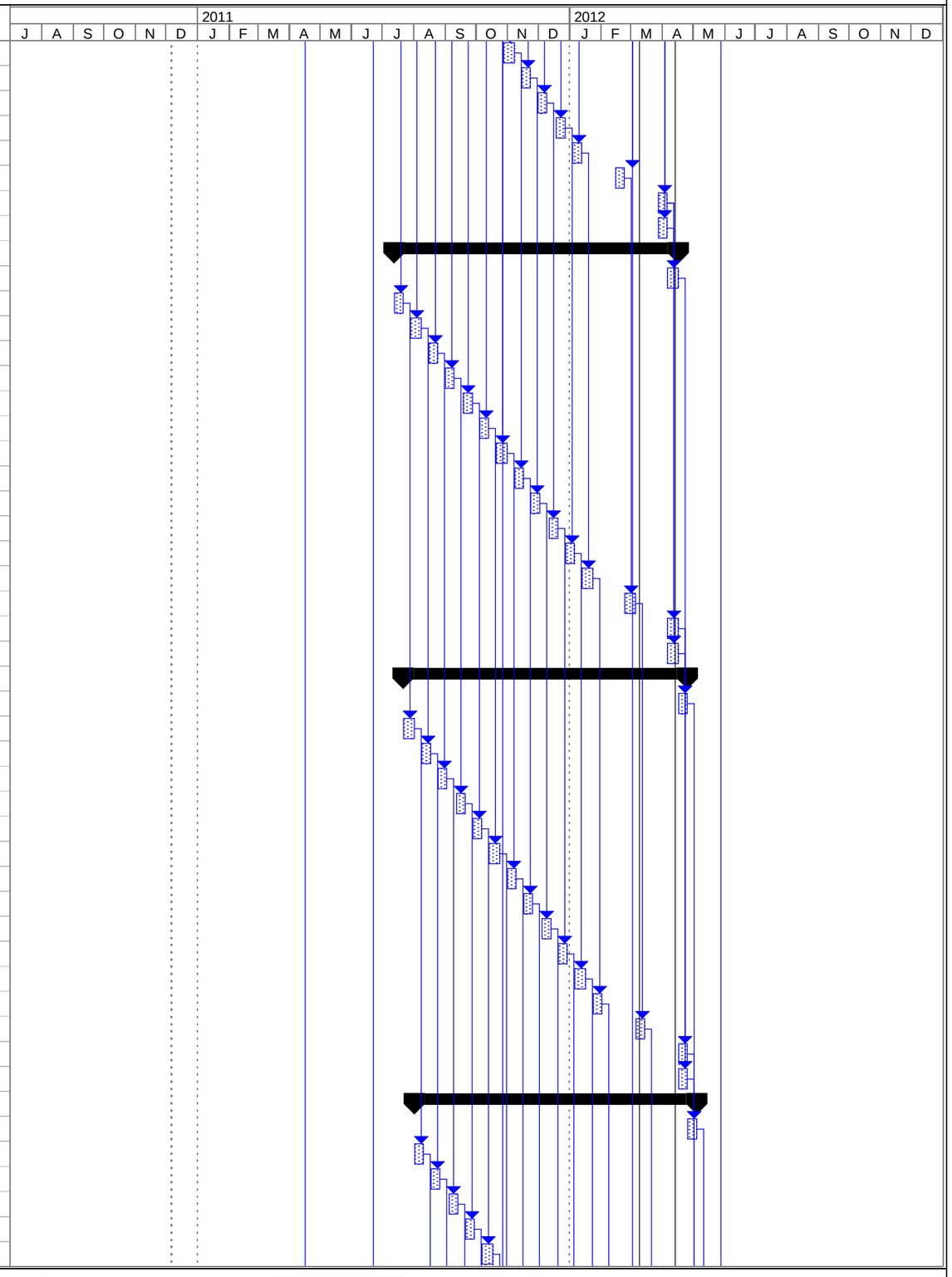
ID	Task Name	Duration	Start	Finish	Successors
834	Gas Sub Meter Installation	3 days	Aug 31 '12	Sep 4 '12	837FF,836FF
835	Electrical Unit Testing	15 days	Aug 9 '12	Aug 29 '12	
836	Electrical Meter for Units	2 days	Sep 3 '12	Sep 4 '12	838FF
837	CATV Testing	5 days	Aug 29 '12	Sep 4 '12	
838	Water Sub Meters for Units	2 days	Sep 3 '12	Sep 4 '12	
839	**Inspection and Handing Over (Blk 211C)**	**75 days**	**Jul 26 '12**	**Nov 7 '12**	
840	Cleaning up	30 days	Jul 26 '12	Sep 5 '12	841
841	Consultant Inspection and Defects Rectification	10 days	Sep 6 '12	Sep 19 '12	842
842	RI Inspection and Defects Rectification	10 days	Sep 20 '12	Oct 3 '12	843
843	TOP Inspection and Defects Rectification	10 days	Oct 4 '12	Oct 17 '12	844
844	BIU Inspection and Defects Rectification	10 days	Oct 18 '12	Oct 31 '12	845
845	Hand Over Blk 211C	5 days	Nov 1 '12	Nov 7 '12	
846					
847	**Phase 6 - Blk 211D (16 Storey)**	**458 days**	**Jan 13 '11**	**Oct 15 '12**	
848	**Structural Works**	**314 days**	**Jan 13 '11**	**Mar 27 '12**	**1052FS-15 days**
849	**Substructure**	**50 days**	**Jan 13 '11**	**Mar 23 '11**	
850	Excavation of Pilecaps	25 days	Jan 13 '11	Feb 16 '11	851FS-20 days
851	Construction of Pilecaps	25 days	Jan 20 '11	Feb 23 '11	852SS+20 days
852	Stump & Ground Beams	25 days	Feb 17 '11	Mar 23 '11	855SS+10 days,853
853	Underground Pipe Laying	20 days	Feb 24 '11	Mar 23 '11	
854	**Superstructure**	**279 days**	**Mar 3 '11**	**Mar 27 '12**	
855	1st Sty Slab	20 days	Mar 3 '11	Mar 30 '11	856SS+15 days,103
856	2nd Sty	25 days	Mar 24 '11	Apr 27 '11	857
857	3rd Sty	20 days	Apr 28 '11	May 25 '11	858
858	4th Sty	15 days	May 26 '11	Jun 15 '11	875,859,1048
859	5th Sty	12 days	Jun 16 '11	Jul 1 '11	860,876
860	6th Sty	12 days	Jul 4 '11	Jul 19 '11	861,877
861	7th Sty	12 days	Jul 20 '11	Aug 4 '11	862,878
862	8th Sty	12 days	Aug 5 '11	Aug 22 '11	863,879
863	9th Sty	12 days	Aug 23 '11	Sep 7 '11	864,880
864	10th Sty	12 days	Sep 8 '11	Sep 23 '11	865,881
865	11th Sty	12 days	Sep 26 '11	Oct 11 '11	866,882
866	12th Sty	12 days	Oct 12 '11	Oct 27 '11	867,883
867	13th Sty	12 days	Oct 28 '11	Nov 14 '11	868,884
868	14th Sty	12 days	Nov 15 '11	Nov 30 '11	869,885
869	15th Sty	12 days	Dec 1 '11	Dec 16 '11	870,886
870	16th Sty	12 days	Dec 19 '11	Jan 3 '12	871,887
871	Roof	30 days	Jan 4 '12	Feb 14 '12	872,888,1040
872	Water Tank Installation	30 days	Feb 15 '12	Mar 27 '12	890,889
873	**Architectural Wokrs**	**257 days**	**Jun 16 '11**	**Jun 8 '12**	
874	**Ceiling Skimming**	**211 days**	**Jun 16 '11**	**Apr 5 '12**	
875	1st Sty	7 days	Jun 16 '11	Jun 24 '11	
876	2nd Sty	7 days	Jul 4 '11	Jul 12 '11	893
877	3rd Sty	7 days	Jul 20 '11	Jul 28 '11	894
878	4th Sty	7 days	Aug 5 '11	Aug 15 '11	895
879	5th Sty	7 days	Aug 23 '11	Aug 31 '11	896
880	6th Sty	7 days	Sep 8 '11	Sep 16 '11	897
881	7th Sty	7 days	Sep 26 '11	Oct 4 '11	898
882	8th Sty	7 days	Oct 12 '11	Oct 20 '11	899



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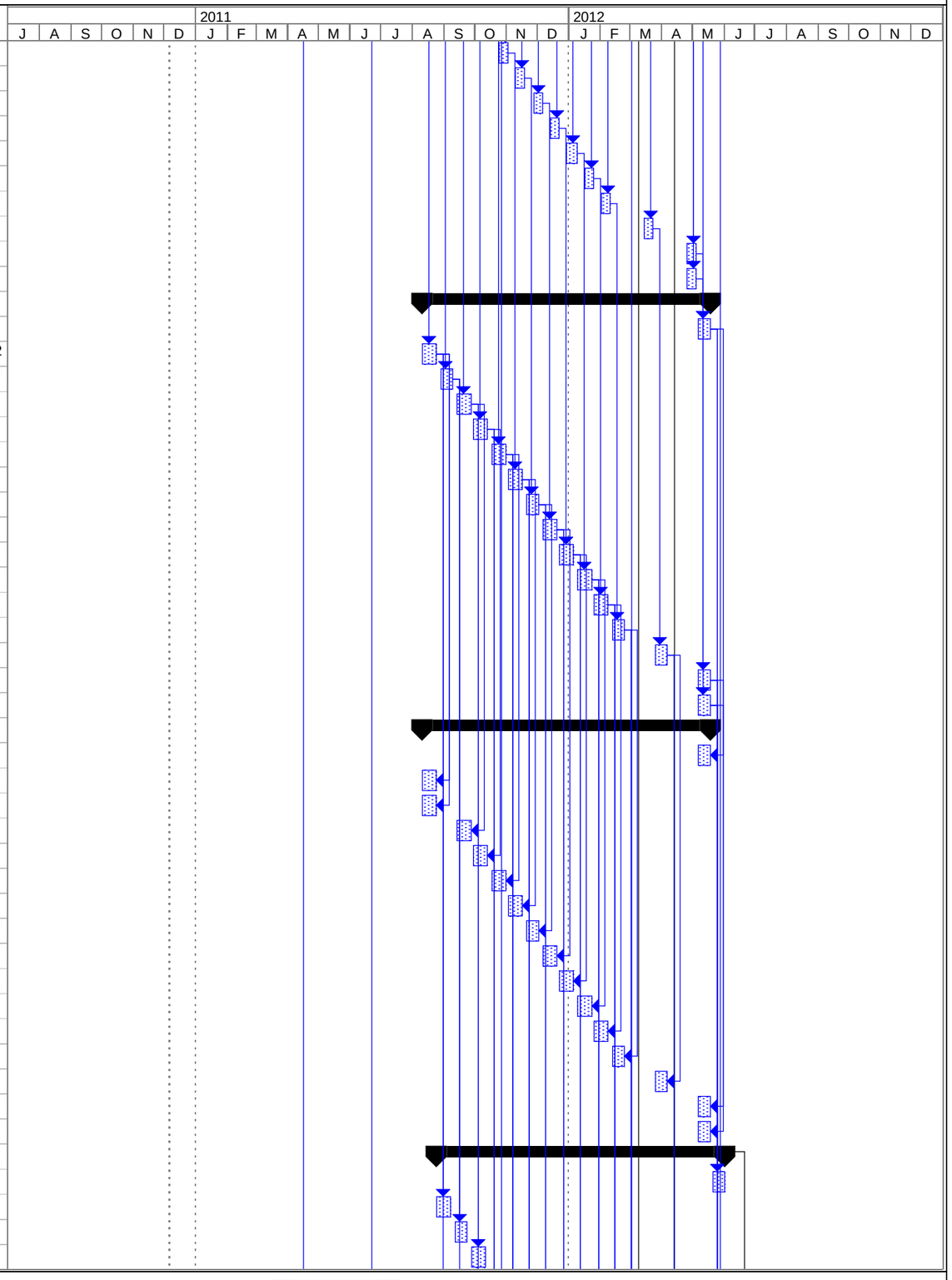
ID	Task Name	Duration	Start	Finish	Successors
883	9th Sty	7 days	Oct 28 '11	Nov 7 '11	900
884	10th Sty	7 days	Nov 15 '11	Nov 23 '11	901
885	11th Sty	7 days	Dec 1 '11	Dec 9 '11	902
886	12th Sty	7 days	Dec 19 '11	Dec 27 '11	903
887	13th Sty	7 days	Jan 4 '12	Jan 12 '12	904
888	14th Sty	7 days	Feb 15 '12	Feb 23 '12	905
889	15th Sty	7 days	Mar 28 '12	Apr 5 '12	906,892
890	16th Sty	7 days	Mar 28 '12	Apr 5 '12	907
891	**Brickworks/Blockworks/Partition Wall Erection**	**199 days**	**Jul 13 '11**	**Apr 16 '12**	
892	1st Sty	7 days	Apr 6 '12	Apr 16 '12	909
893	2nd Sty	7 days	Jul 13 '11	Jul 21 '11	910
894	3rd Sty	7 days	Jul 29 '11	Aug 8 '11	911
895	4th Sty	7 days	Aug 16 '11	Aug 24 '11	912
896	5th Sty	7 days	Sep 1 '11	Sep 9 '11	913
897	6th Sty	7 days	Sep 19 '11	Sep 27 '11	914
898	7th Sty	7 days	Oct 5 '11	Oct 13 '11	915
899	8th Sty	7 days	Oct 21 '11	Oct 31 '11	916
900	9th Sty	7 days	Nov 8 '11	Nov 16 '11	917
901	10th Sty	7 days	Nov 24 '11	Dec 2 '11	918
902	11th Sty	7 days	Dec 12 '11	Dec 20 '11	919
903	12th Sty	7 days	Dec 28 '11	Jan 5 '12	920
904	13th Sty	7 days	Jan 13 '12	Jan 23 '12	921
905	14th Sty	7 days	Feb 24 '12	Mar 5 '12	922
906	15th Sty	7 days	Apr 6 '12	Apr 16 '12	923
907	16th Sty	7 days	Apr 6 '12	Apr 16 '12	924
908	**Door Frames**	**199 days**	**Jul 22 '11**	**Apr 25 '12**	
909	1st Sty	7 days	Apr 17 '12	Apr 25 '12	926
910	2nd Sty	7 days	Jul 22 '11	Aug 1 '11	927
911	3rd Sty	7 days	Aug 9 '11	Aug 17 '11	928
912	4th Sty	7 days	Aug 25 '11	Sep 2 '11	929
913	5th Sty	7 days	Sep 12 '11	Sep 20 '11	930
914	6th Sty	7 days	Sep 28 '11	Oct 6 '11	931
915	7th Sty	7 days	Oct 14 '11	Oct 24 '11	932
916	8th Sty	7 days	Nov 1 '11	Nov 9 '11	933
917	9th Sty	7 days	Nov 17 '11	Nov 25 '11	934
918	10th Sty	7 days	Dec 5 '11	Dec 13 '11	935
919	11th Sty	7 days	Dec 21 '11	Dec 29 '11	936
920	12th Sty	7 days	Jan 6 '12	Jan 16 '12	937
921	13th Sty	7 days	Jan 24 '12	Feb 1 '12	938
922	14th Sty	7 days	Mar 6 '12	Mar 14 '12	939
923	15th Sty	7 days	Apr 17 '12	Apr 25 '12	940
924	16th Sty	7 days	Apr 17 '12	Apr 25 '12	941
925	**M&E 1st Fix (Sanitary Pipes & Stacks, Water Pipes, Electrical C**	**199 days**	**Aug 2 '11**	**May 4 '12**	
926	1st Sty	7 days	Apr 26 '12	May 4 '12	943
927	2nd Sty	7 days	Aug 2 '11	Aug 10 '11	944
928	3rd Sty	7 days	Aug 18 '11	Aug 26 '11	945
929	4th Sty	7 days	Sep 5 '11	Sep 13 '11	946
930	5th Sty	7 days	Sep 21 '11	Sep 29 '11	947
931	6th Sty	7 days	Oct 7 '11	Oct 17 '11	948



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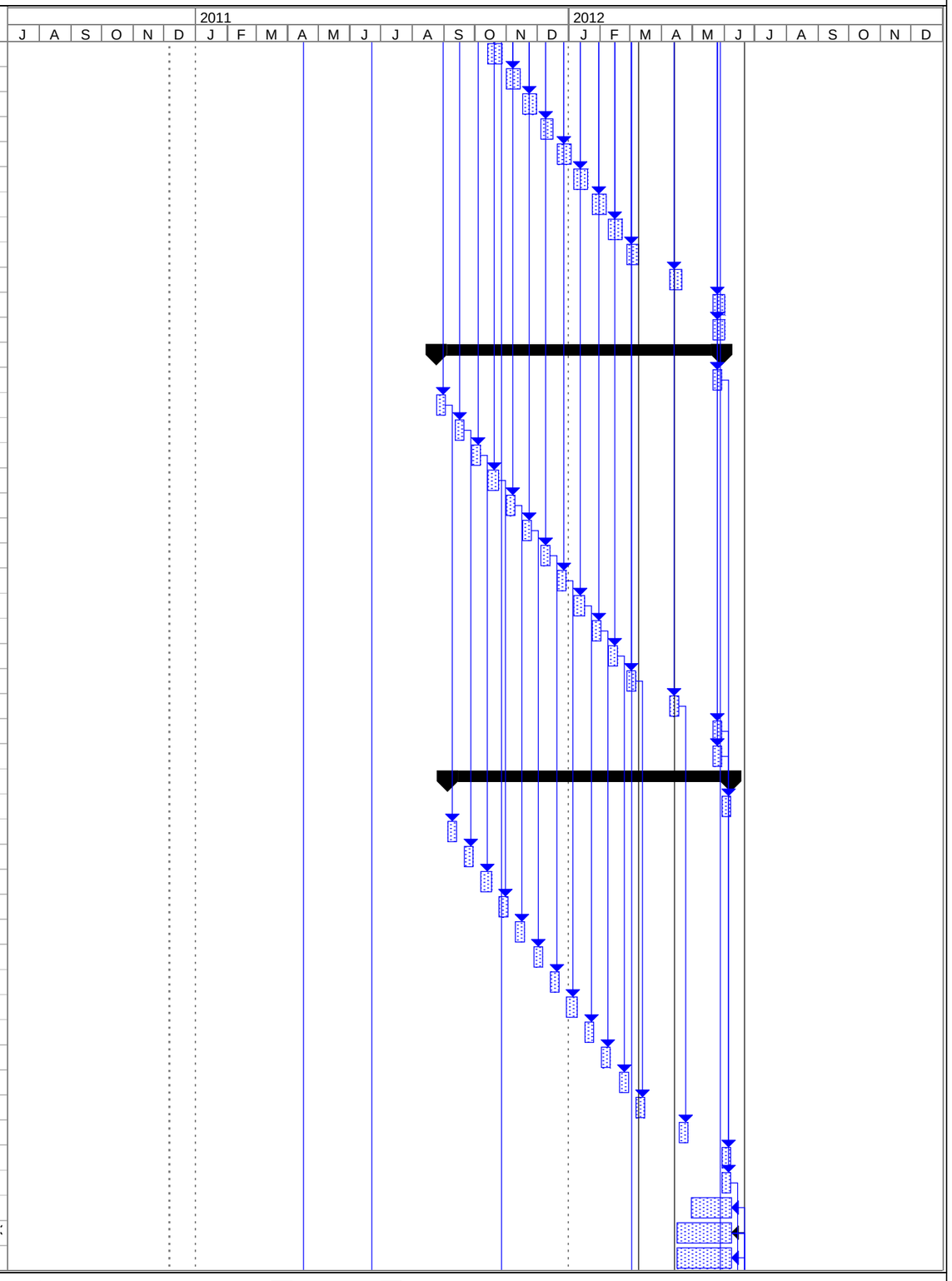
ID	Task Name	Duration	Start	Finish	Successors
932	7th Sty	7 days	Oct 25 '11	Nov 2 '11	949
933	8th Sty	7 days	Nov 10 '11	Nov 18 '11	950
934	9th Sty	7 days	Nov 28 '11	Dec 6 '11	951
935	10th Sty	7 days	Dec 14 '11	Dec 22 '11	952
936	11th Sty	7 days	Dec 30 '11	Jan 9 '12	953
937	12th Sty	7 days	Jan 17 '12	Jan 25 '12	954
938	13th Sty	7 days	Feb 2 '12	Feb 10 '12	955
939	14th Sty	7 days	Mar 15 '12	Mar 23 '12	956
940	15th Sty	7 days	Apr 26 '12	May 4 '12	957
941	16th Sty	7 days	Apr 26 '12	May 4 '12	958
942	**Wall Tiles**	**202 days**	**Aug 11 '11**	**May 18 '12**	
943	1st Sty	10 days	May 7 '12	May 18 '12	960FF,977,994
944	2nd Sty	10 days	Aug 11 '11	Aug 24 '11	961FF,978,995,962
945	3rd Sty	10 days	Aug 29 '11	Sep 9 '11	979,996
946	4th Sty	10 days	Sep 14 '11	Sep 27 '11	963FF,980,997
947	5th Sty	10 days	Sep 30 '11	Oct 13 '11	964FF,981,998
948	6th Sty	10 days	Oct 18 '11	Oct 31 '11	965FF,982,999
949	7th Sty	10 days	Nov 3 '11	Nov 16 '11	966FF,983,1000
950	8th Sty	10 days	Nov 21 '11	Dec 2 '11	967FF,984,1001
951	9th Sty	10 days	Dec 7 '11	Dec 20 '11	968FF,985,1002
952	10th Sty	10 days	Dec 23 '11	Jan 5 '12	969FF,986,1003
953	11th Sty	10 days	Jan 10 '12	Jan 23 '12	970FF,987,1004
954	12th Sty	10 days	Jan 26 '12	Feb 8 '12	971FF,988,1005
955	13th Sty	10 days	Feb 13 '12	Feb 24 '12	972FF,989,1006
956	14th Sty	10 days	Mar 26 '12	Apr 6 '12	973FF,990,1007
957	15th Sty	10 days	May 7 '12	May 18 '12	974FF,991,1008
958	16th Sty	10 days	May 7 '12	May 18 '12	975FF,992,1009
959	**Wall Skimming/Plastering**	**202 days**	**Aug 11 '11**	**May 18 '12**	
960	1st Sty	10 days	May 7 '12	May 18 '12	
961	2nd Sty	10 days	Aug 11 '11	Aug 24 '11	
962	3rd Sty	10 days	Aug 11 '11	Aug 24 '11	
963	4th Sty	10 days	Sep 14 '11	Sep 27 '11	
964	5th Sty	10 days	Sep 30 '11	Oct 13 '11	
965	6th Sty	10 days	Oct 18 '11	Oct 31 '11	
966	7th Sty	10 days	Nov 3 '11	Nov 16 '11	
967	8th Sty	10 days	Nov 21 '11	Dec 2 '11	
968	9th Sty	10 days	Dec 7 '11	Dec 20 '11	
969	10th Sty	10 days	Dec 23 '11	Jan 5 '12	
970	11th Sty	10 days	Jan 10 '12	Jan 23 '12	
971	12th Sty	10 days	Jan 26 '12	Feb 8 '12	
972	13th Sty	10 days	Feb 13 '12	Feb 24 '12	
973	14th Sty	10 days	Mar 26 '12	Apr 6 '12	
974	15th Sty	10 days	May 7 '12	May 18 '12	
975	16th Sty	10 days	May 7 '12	May 18 '12	
976	**Floor Tiles**	**202 days**	**Aug 25 '11**	**Jun 1 '12**	**1028FF+5 days**
977	1st Storey	10 days	May 21 '12	Jun 1 '12	
978	2nd Sty	10 days	Aug 25 '11	Sep 7 '11	
979	3rd Sty	10 days	Sep 12 '11	Sep 23 '11	
980	4th Sty	10 days	Sep 28 '11	Oct 11 '11	



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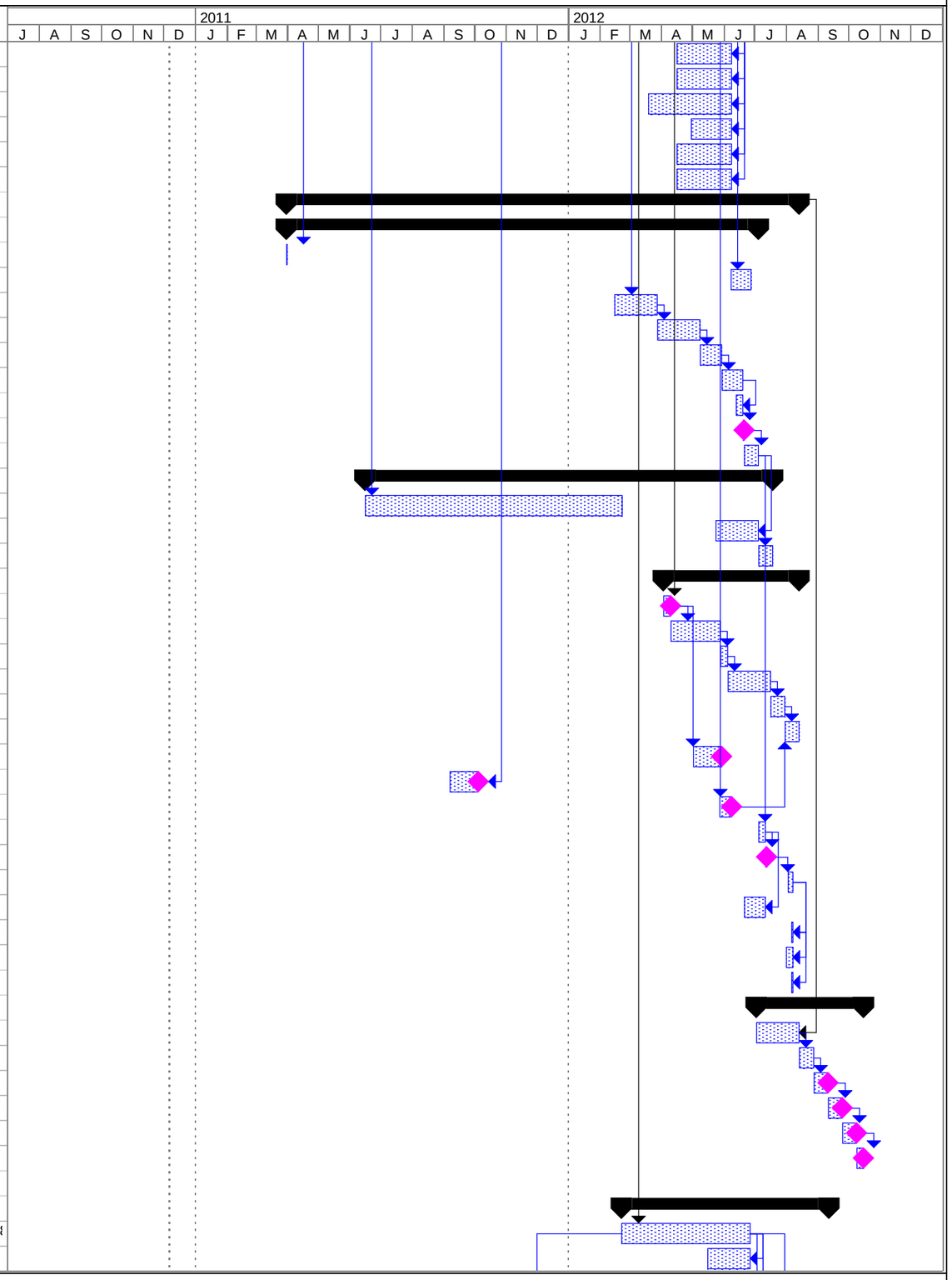
ID	Task Name	Duration	Start	Finish	Successors
981	5th Sty	10 days	Oct 14 '11	Oct 27 '11	
982	6th Sty	10 days	Nov 1 '11	Nov 14 '11	
983	7th Sty	10 days	Nov 17 '11	Nov 30 '11	
984	8th Sty	10 days	Dec 5 '11	Dec 16 '11	
985	9th Sty	10 days	Dec 21 '11	Jan 3 '12	
986	10th Sty	10 days	Jan 6 '12	Jan 19 '12	
987	11th Sty	10 days	Jan 24 '12	Feb 6 '12	
988	12th Sty	10 days	Feb 9 '12	Feb 22 '12	
989	13th Sty	10 days	Feb 27 '12	Mar 9 '12	
990	14th Sty	10 days	Apr 9 '12	Apr 20 '12	
991	15th Sty	10 days	May 21 '12	Jun 1 '12	
992	16th Sty	10 days	May 21 '12	Jun 1 '12	
993	**Internal Painting**	**199 days**	**Aug 25 '11**	**May 29 '12**	
994	1st Sty	7 days	May 21 '12	May 29 '12	1011
995	2nd Sty	7 days	Aug 25 '11	Sep 2 '11	1012
996	3rd Sty	7 days	Sep 12 '11	Sep 20 '11	1013
997	4th Sty	7 days	Sep 28 '11	Oct 6 '11	1014
998	5th Sty	7 days	Oct 14 '11	Oct 24 '11	1015
999	6th Sty	7 days	Nov 1 '11	Nov 9 '11	1016
1000	7th Sty	7 days	Nov 17 '11	Nov 25 '11	1017
1001	8th Sty	7 days	Dec 5 '11	Dec 13 '11	1018
1002	9th Sty	7 days	Dec 21 '11	Dec 29 '11	1019
1003	10th Sty	7 days	Jan 6 '12	Jan 16 '12	1020
1004	11th Sty	7 days	Jan 24 '12	Feb 1 '12	1021
1005	12th Sty	7 days	Feb 9 '12	Feb 17 '12	1022
1006	13th Sty	7 days	Feb 27 '12	Mar 6 '12	1023
1007	14th Sty	7 days	Apr 9 '12	Apr 17 '12	1024
1008	15th Sty	7 days	May 21 '12	May 29 '12	1025
1009	16th Sty	7 days	May 21 '12	May 29 '12	1026
1010	**M&E 2nd Fix (Electrical Wiring, Gas Pipes)**	**199 days**	**Sep 5 '11**	**Jun 7 '12**	
1011	1st Sty	7 days	May 30 '12	Jun 7 '12	
1012	2nd Sty	7 days	Sep 5 '11	Sep 13 '11	
1013	3rd Sty	7 days	Sep 21 '11	Sep 29 '11	
1014	4th Sty	7 days	Oct 7 '11	Oct 17 '11	
1015	5th Sty	7 days	Oct 25 '11	Nov 2 '11	
1016	6th Sty	7 days	Nov 10 '11	Nov 18 '11	
1017	7th Sty	7 days	Nov 28 '11	Dec 6 '11	
1018	8th Sty	7 days	Dec 14 '11	Dec 22 '11	
1019	9th Sty	7 days	Dec 30 '11	Jan 9 '12	
1020	10th Sty	7 days	Jan 17 '12	Jan 25 '12	
1021	11th Sty	7 days	Feb 2 '12	Feb 10 '12	
1022	12th Sty	7 days	Feb 20 '12	Feb 28 '12	
1023	13th Sty	7 days	Mar 7 '12	Mar 15 '12	
1024	14th Sty	7 days	Apr 18 '12	Apr 26 '12	
1025	15th Sty	7 days	May 30 '12	Jun 7 '12	
1026	16th Sty	7 days	May 30 '12	Jun 7 '12	1039
1027	Ceiling/Aluminium Boards Installation	30 days	Apr 30 '12	Jun 8 '12	
1028	Door Panels Installation	40 days	Apr 16 '12	Jun 8 '12	1027FF,1029FF,10
1029	M & E Fittings Installations (Sanitsry Wares, Taps, Electrical Fittings	40 days	Apr 16 '12	Jun 8 '12	



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Task | Critical Task | Progress | Milestone | Summary

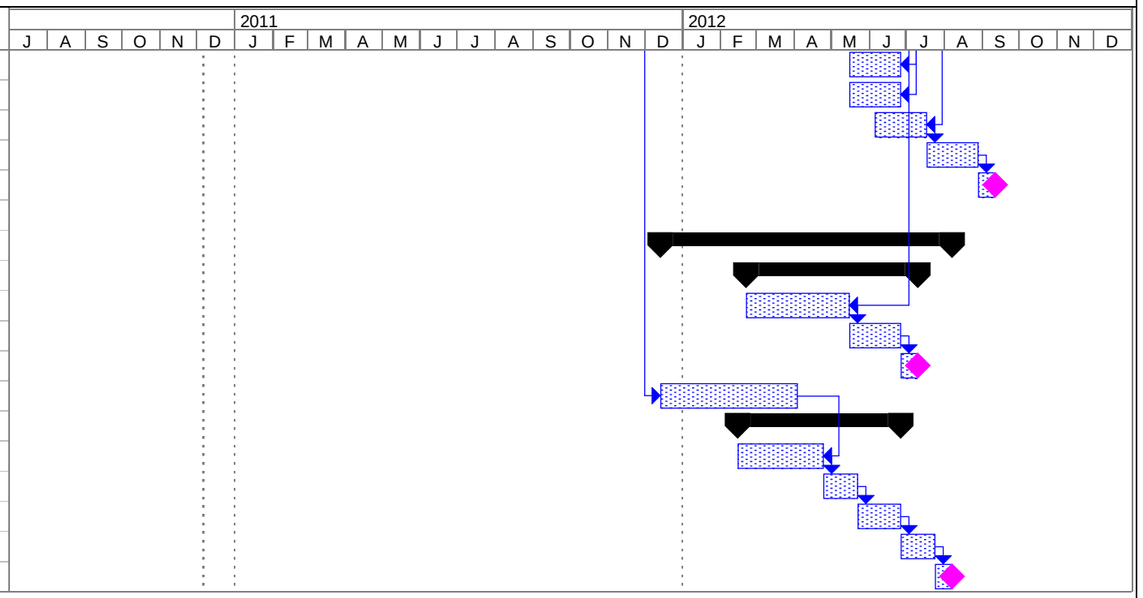
ID	Task Name	Duration	Start	Finish	Successors
1030	Aluminium Window/Glazing Installation	40 days	Apr 16 '12	Jun 8 '12	
1031	Blast Door Panel Installation	40 days	Apr 16 '12	Jun 8 '12	
1032	Aluminium/Metal/Steel Works	60 days	Mar 19 '12	Jun 8 '12	
1033	Refuse Handling Equipment	30 days	Apr 30 '12	Jun 8 '12	
1034	External Plaster/Skimming	40 days	Apr 16 '12	Jun 8 '12	
1035	External Painting	40 days	Apr 16 '12	Jun 8 '12	
1036	**M & E Works**	**358 days**	**Mar 31 '11**	**Aug 13 '12**	**1069FF**
1037	**Sanitary & Plumbing Works**	**330 days**	**Mar 31 '11**	**Jul 4 '12**	
1038	Installation of suction tank	1 day	Mar 31 '11	Mar 31 '11	
1039	Installation of Transfer and Booster Pumps and Control Panels	14 days	Jun 8 '12	Jun 27 '12	
1040	IC Lines	30 days	Feb 15 '12	Mar 27 '12	1041
1041	IC Cover Install	30 days	Mar 28 '12	May 8 '12	1042
1042	Cleaning Up and Water Test	15 days	May 9 '12	May 29 '12	1043
1043	Inspections for Handover	15 days	May 30 '12	Jun 19 '12	1044FF
1044	PUB Water Inspection	5 days	Jun 13 '12	Jun 19 '12	1045
1045	PUB Water Turn On & Bulk Meter	1 day	Jun 20 '12	Jun 20 '12	1046
1046	CBPU Inspection and Clearance	10 days	Jun 21 '12	Jul 4 '12	1049FF,1061
1047	**Dry Riser/Hosereel Installation**	**285 days**	**Jun 16 '11**	**Jul 18 '12**	
1048	Piping Install	180 days	Jun 16 '11	Feb 22 '12	
1049	Breeching Inlet/Hosereel Installation	30 days	May 24 '12	Jul 4 '12	1050
1050	Testing and Commissioning	10 days	Jul 5 '12	Jul 18 '12	
1051	**Lift**	**95 days**	**Apr 3 '12**	**Aug 13 '12**	
1052	Handing Over of Liftshaft to Lift Contractor	5 days	Apr 3 '12	Apr 9 '12	1053,1058
1053	Alignment Checking and Installation of Guiderails and Door Jam	35 days	Apr 10 '12	May 28 '12	1054
1054	Bricking up	5 days	May 29 '12	Jun 4 '12	1055
1055	Liftcar and Door Panels Install	30 days	Jun 5 '12	Jul 16 '12	1056
1056	Lift Lobby Tiling/Screeding	10 days	Jul 17 '12	Jul 30 '12	1057
1057	Testing and Commissioning	10 days	Jul 31 '12	Aug 13 '12	
1058	Pump Room Completion/Handover	20 days	May 2 '12	May 29 '12	
1059	TER Room Inspection and Handover	20 days	Sep 7 '11	Oct 4 '11	
1060	CSR Room Electricity Turn On	10 days	May 28 '12	Jun 8 '12	1057
1061	Gas Pressure Test	5 days	Jul 5 '12	Jul 11 '12	1062,1064FF
1062	Gas Turn On	1 day	Jul 12 '12	Jul 12 '12	1063
1063	Gas Sub Meter Installation	3 days	Aug 3 '12	Aug 7 '12	1065FF,1066FF
1064	Electrical Unit Testing	15 days	Jun 21 '12	Jul 11 '12	
1065	Electrical Meter for Units	2 days	Aug 6 '12	Aug 7 '12	1067FF
1066	CATV Testing	5 days	Aug 1 '12	Aug 7 '12	
1067	Water Sub Meters for Units	2 days	Aug 6 '12	Aug 7 '12	
1068	**Inspection and Handing Over (Blk 211D)**	**75 days**	**Jul 3 '12**	**Oct 15 '12**	
1069	Cleaning up	30 days	Jul 3 '12	Aug 13 '12	1070
1070	Consultant Inspection and Defects Rectification	10 days	Aug 14 '12	Aug 27 '12	1071
1071	RI Inspection and Defects Rectification	10 days	Aug 28 '12	Sep 10 '12	1072
1072	TOP Inspection and Defects Rectification	10 days	Sep 11 '12	Sep 24 '12	1073
1073	BIU Inspection and Defects Rectification	10 days	Sep 25 '12	Oct 8 '12	1074
1074	Hand Over Blk 211D	5 days	Oct 9 '12	Oct 15 '12	
1075					
1076	**Phase 7 - Link Building/Linkway/Siteworks/Landscaping Works**	**145 days**	**Feb 22 '12**	**Sep 11 '12**	
1077	Link Building/Covered Linkways/Drop Off Porch	90 days	Feb 22 '12	Jun 26 '12	1078FF,1079FF,108
1078	Playground	30 days	May 16 '12	Jun 26 '12	



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Task Critical Task Progress Milestone Summary

ID	Task Name	Duration	Start	Finish	Successors
1079	Hardcourt	30 days	May 16 '12	Jun 26 '12	
1080	Adult & Elderly Fitness Station	30 days	May 16 '12	Jun 26 '12	
1081	Turfing and Landscaping	30 days	Jun 6 '12	Jul 17 '12	1082
1082	Inspection & Defects Rectification	30 days	Jul 18 '12	Aug 28 '12	1083
1083	Handover to HDB BO/Town Council	10 days	Aug 29 '12	Sep 11 '12	
1084					
1085	**Phase 8 - Civil Engineering Works**	**170 days**	**Dec 14 '11**	**Aug 7 '12**	
1086	**Minor Sewer Works**	**100 days**	**Feb 22 '12**	**Jul 10 '12**	
1087	Sewer Line Construction	60 days	Feb 22 '12	May 15 '12	1088
1088	Manhole Construction	30 days	May 16 '12	Jun 26 '12	1089
1089	Inspection and Handover	10 days	Jun 27 '12	Jul 10 '12	
1090	CE Drain	80 days	Dec 14 '11	Apr 3 '12	1092FF+15 days
1091	**Road Works**	**95 days**	**Feb 15 '12**	**Jun 26 '12**	
1092	Road Kerb	50 days	Feb 15 '12	Apr 24 '12	1093
1093	Road Base	20 days	Apr 25 '12	May 22 '12	1094
1094	Interlocking Pavier	25 days	May 23 '12	Jun 26 '12	1095
1095	Inspection & Defects Rectification	20 days	Jun 27 '12	Jul 24 '12	1096
1096	Handover to HDB BO/Town Council	10 days	Jul 25 '12	Aug 7 '12	



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Task | Critical Task | Progress | Milestone | Summary

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									
Power Supply Substation	SP PowerGrid Ltd		8/2/10	19/2/10	24/3/10	5/4/10	2/6/10	6/6/10	26/4/11	12/5/11
Metering Layout	SP Services Ltd	27/2/12	27/2/12							
Sanitary Installation	PUB Water Reclamation (Network) Dept	28/1/11								
Domestic Water Supply	PUB (Water Supply) Network Dept	28/2/11	12/10/11	9/11/11	17/2/12					
Gas Supply Installation	City Gas Pte Ltd	7/1/11	10/1/11	10/2/11	11/4/11					21/4/11
Air Conditioning & Ventilation Inst.	FSSD	-								
Fire Fighting & Alarm Installation	FSSD	-								
Telephone Installation	TFCC	2/7/10	26/10/10							23/11/10
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 4

PROGRAMME

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

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:	
- MC/EC	✓				

(✓*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	YYF
Incoming Architectural Sketches/Details	YYF
Incoming Structural Drawings	YYF
M&E Drawings	
- Electrical Installation	LYM
- Lift & Escalator Installation	LYM
- Air Conditioning & Ventilation Installation	YYF
- Fire Fighting & Alarm Installation	YYF
- Plumbing & Sanitary Installation	YYF
- Swimming Pool & Filtration Installation	-
Other Drawings	

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 – NOT USED

Item No.	Description*	Required From	Required By	Date Required	Remarks

** 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	A	C	I	
b.	Project Administration	A	A	C	C	I	
c.	Project Cost Estimate/Contract Cost	A	A	C	C	I	
2.	**Drawings**						
a.	Outline Design Drgs.	A	A	A	C	-	
b.	Sketch Design Drgs.	A	A	A	C	-	
c.	Final Design Drgs.	A	A	A	C	-	
d.	Shop Drawings	I	I	A	C	-	
e.	As Built Drgs.	I	I	I	I	-	
3.	**Other Document**						
a.	Specification	A	A	A	I	I	
b.	Tender Document	A	A	A	I	I	
c.	Tender Evaluation Report	A	A	A	I	I	
d.	Design Report	A	A	C	-	-	
e.	Progress Report	A	A	A	I	I	
f.	Financial Report	A	A	I	I	I	
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 Questionaires	✓	✓			
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
HDB Guide Drawings	YYF/LYM

8.2 List of Applicable Code of Practice and Regulations

Electrical Wiring	~~BS~~	SS	~~IEE~~	~~NFPA~~	
Lightning Protection System	~~BS~~	SS			
~~Emergency Voice Communication System~~	~~BS~~	~~SS~~	~~NFPA~~		
Air Conditioning & Ventilation Installation	~~BS~~	~~AS~~	~~NFPA~~	SS	~~MS~~
Lift & Escalator Installation	~~BS~~	SS			
~~Sprinkler System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~LPC~~
~~Wet Riser System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~MS~~
~~Automatic Fire Alarm System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~MS~~
Sanitary System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Plumbing System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Town Gas/LPG Supply System	~~BS~~	SS	~~NFPA~~	~~AS~~	
~~Boiler and Steam Supply System~~	~~ASME~~	~~BS~~	~~AS~~		
~~Mechanical Smoke Control System~~	~~BS~~	~~NFPA~~	~~AS~~		

(Delete where necessary)

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 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	
QE1	Quality & Environmental System Audit	✓
QE2	Feedback Reporting	✓
QE3	Clients Feedback	✓
QE4	Management Review	

8.5 List of Software Used For Design/Analysis – NOT USED

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	

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features / Criteria

Item	Remarks
Green Mark criteria	Gold Plus
Green Design Features	Refer to attachment

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	✓

LIST OF GREEN FEATURES

List of green features
• LED lighting to common corridor • Thermal insulation to west façade of design units • Motion sensors at mid landings of staircases • Lifts with gearless drive • Re-generative lifts • Fuel cell • Sunpipes provision to MSCP • Clothes drying facilities • Natural ventilation to units and common areas
• 3 ticks for water efficient fittings – basin tap, laundry bib tap, sink tap, • 2 ticks for shower fitting & shower mixer, toilet pan • Private meter for irrigation • Irrigation system with rain sensor for MSCP landscape deck
• Green Concrete for footpath, kerbs, drains, wheel stopper • Recycled timber deck • Water proof membrane to toilets • Tarkett Standard Plus vinyl flooring to lifts • Building users guide • Provision of bicycles parking for 5% of dwelling units. • Stormwater management – infiltration trenches
Design for Other green features • Roof top garden • Bioswale for hardcourt area

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	-
Tender Documents	-
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 USED**

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers – NOT USED

Sub Job No	Description	Allocation Details