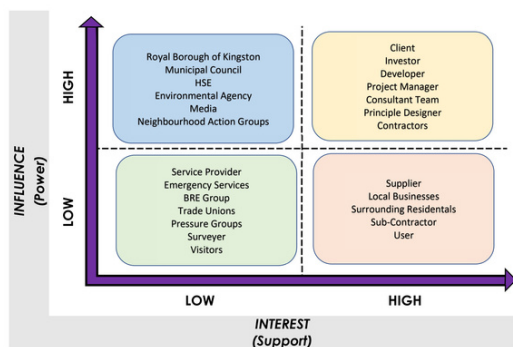
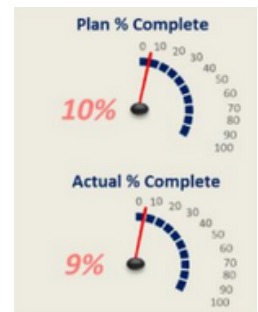
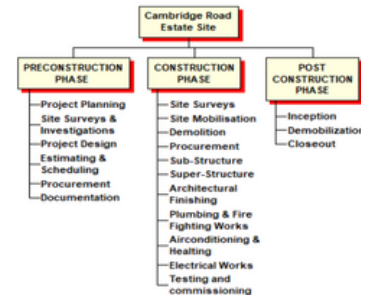


**GRADUATE STRUCTURAL ENGINEER | KINGSTON UNIVERSITY**



Cambridge Road Estate
Classic Schedule Layout
04-12-22 08:41

Activity Name	BL Project Start	BL Project Finish	BL Project Duration	Actual Start	Actual Finish	Actual Duration
<b>CRE 2.5 Sub-Structure</b>	71d	11-10-22	03:01-23	44d	21-10-22	
Setting Out Using Total Station	5d	11-10-22	11-10-22	6d	11-10-22	27-10-22
Mapping of Underground Cables/Utilities/Tunnels	3d	11-10-22	14-10-22	3d	21-10-22	25-10-22
Establishing Benchmark& Gld Lines	4d	13-10-22	18-10-22	4d	24-10-22	27-10-22
Bore and Cast-In-Situ Pile 30, 45,60	25d	18-10-22	15-11-22	25d	03-11-22	23-11-22
Formwork For Pile Caps	25d	21-10-22	18-11-22	26d	01-11-22	29-11-22
Reinforcement For Pile Caps	25d	25-10-22	22-11-22	24d	03-11-22	30-11-22
Concrete works For Pile Caps	25d	28-10-22	24-11-22	22d	07-11-22	30-11-22
Excavation For Ground Beam	28d	31-10-22	30-11-22	28d	05-11-22	07-12-22
Earthling System Installation	1d	25-11-22	25-11-22	1d	01-12-22	01-12-22
Reinforcement for Ground Floor Beams	28d	02-11-22	02-12-22	28d	08-11-22	08-12-22
Formwork for Ground Floor Beams	28d	03-11-22	05-12-22	25d	10-11-22	
Concrete works for Ground Floor Beams	25d	07-11-22	05-12-22	21d	14-11-22	
Earth Filling	5d	05-12-22	10-12-22	0d		
Compaction	2d	08-12-22	08-12-22	0d		
Placement of Hardcore	5d	06-12-22	12-12-22	0d		
Compaction of Hardcore	1d	12-12-22	13-12-22	0d		
Placement of DPM	2d	13-12-22	15-12-22	0d		
Reinforcement For Ground Floor Slab	10d	15-12-22	29-12-22	0d		
Formwork For Ground Floor Slab	8d	19-12-22	29-12-22	0d		
Concrete Works For Ground Floor Slab	2d	30-12-22	03-01-23	0d		
Milestone 6 - Completion of Sub-Structure	0d	0d	03-01-23	0d		
<b>CRE 2.6 Super-Structure</b>	100d	03-01-23	27-04-23	0d		
Reinforcement Works For Columns	60d	03-01-23	10-03-23	0d		
Formwork For Columns	60d	05-01-23	14-03-23	0d		
Concrete Works For Columns	60d	10-01-23	17-03-23	0d		
Reinforcement Work For Beams	60d	20-01-23	29-03-23	0d		
Formwork For Beams	60d	24-01-23	31-03-23	0d		
Concrete Works Floor For Beams	60d	27-01-23	04-04-23	0d		
Reinforcement Work For Shear Walls	50d	26-01-23	23-03-23	0d		
Formwork For Shear Walls	50d	30-01-23	27-03-23	0d		
Concrete Works For Shear Walls	50d	02-02-23	29-03-23	0d		
Reinforcement Work For Lvl Walls	45d	01-02-23	23-03-23	0d		
Formwork For Lvl Walls	45d	02-02-23	24-03-23	0d		
Concrete Works For Lvl Walls	45d	06-02-23	28-03-23	0d		
Formwork For Slabs	60d	07-02-23	17-04-23	0d		
Reinforcement Works For Slabs	60d	11-02-23	22-04-23	0d		
Concrete works Floor For Slabs	58d	17-02-23	26-04-23	0d		
Formwork For Staircase	60d	07-02-23	18-04-23	0d		
Reinforcement Work For Staircase	60d	13-02-23	24-04-23	0d		
Concrete Works For Staircase	5d	18-02-23	27-04-23	0d		
Milestone 7 - Completion of Super Structures	0d	0d	27-04-23	0d		
<b>CRE 2.7 Architectural Finishing</b>	225d	02-03-23	16-11-23	0d		
Installation of Scaffold (Externally)	40d	02-03-23	18-04-23	0d		
Concrete Block Wall Laying Externally	43d	03-03-23	24-04-23	0d		
Concrete Block Wall For Plaster Wall	10d	26-04-23	10-05-23	0d		
Roof Floor Screeding	7d	10-05-23	17-05-23	0d		
Roof Floor Felling	4d	17-05-23	22-05-23	0d		
Wall Rendering Both Extern& Internal	30d	30-03-23	05-05-23	0d		
Floor Screeding	30d	18-03-23	24-04-23	0d	</	



Risk ID	Task ID	Risk description		Risk status (Date when risk becomes real)	Proximity	Risk owner				Qualitative ranking (before response action)				Response Action				Qualitative Ranking (After Response Action)				Data for Quantitative Analysis			
		Source of risk	Consequence on project			Probability	Cost Impact	Time Impact	Customer Impact	Risk priority	Response strategy	Action	Cost of mitigation (€)	Action owner	Completion date	Residual probability (%)	Residual risk priority	Cost Impact	Time Impact	Customer Impact	Priority	Least cost (€)	Max cost (€)	Max cost (€)	MEV (€)
PRE-CONSTRUCTION																									
1	CRE 1.1	Delays and difficulties in obtaining permits and approvals from council	Initial design, demolition, and construction delays will occur.	Ongoing	22/09/2021	Customer	H	L	H	H	M	Stakeholder analysis	Early diagnosis of the problem in the offices of the local authorities and routine consultations with the relevant officials.	€3,000	Client	21/12/2021	20%	VL	L	H	M	€3,000	€3,000	€800	
2	CRE 1.2	Clients refuse to accept design suggestions	Cost growth brought on by the cessation of design by team work	Ongoing	24/01/2022	Customer	VH	M	M	M	M	Project review	Observe and suggest other design options.	€3,500	client	18/03/2022	10%	L	L	L	L	€5,000	€3,000	€13,000	€900
3	CRE 1.3	Disagreements within the design team	Disturbed design process	Ongoing	21/12/2021	Consultant	L	L	L	L	L	Team building	Any type of confrontation will be addressed by the team leader, who will therefore take responsibility within the team.	€1,000	Design team	18/03/2021	5%	VL	L	L	L	€0	€500	€1,000	€25
4	CRE 1.1	Inaccurate client information	Design may be released with flaws, and correcting them may cost and take more time because there will be another design revision.	Ongoing	21/12/2021	Consultant	M	M	M	M	M	Application of extension	Request from customer for an extension of time to finish the design owing to these circumstances.	€2,000	Design team	18/03/2022	10%	L	M	H	M	€1,000	€3,000	€5,000	€300
5	CRE 1.1	The staff lacks appropriate expertise in the field of design.	Due to the frequent reviews of design work, verification will take longer.	Live	22/09/2021	Consultant	L	M	M	M	M	Training of staff	The creation of team leaders strengthens control over work and provides staff with the knowledge.	€10,000	Design team	21/06/2022	15%	VL	L	L	L	€5,000	€10,000	€15,000	€1,500
6	CRE 1.5	Acceptance of arbitrary contract guidelines	Loss of design quality due to a defective contract	Live	21/06/2022	Contractor	VL	VL	VL	VL	VL	Strengthens workflow	Inviting additional personnel or delegating a portion of the task to a third party while a contract is in effect.	€50,000	Contractor	11/01/2023	10%	L	L	L	L	€30,000	€50,000	€80,000	€5,000
7	CRE 1.2	Inaccurate site survey	Building placement and drawing accuracy issues	Ongoing	01/10/2021	Others	M	VH	VH	VH	M	Calibration of device	Regular calibration of survey equipments for accurate survey.	€1,000	Surveyor	24/01/2022	5%	L	L	L	L	€500	€500	€8,000	€25
8	CRE 2.1	Delays in obtaining permits for demolition	Construction phases will also be construction phases, which will affect completion schedule.	Live	15/05/2022	Contractor	H	H	L	H	H	Preparation of assessment report	Preparation of all the supporting documentation, the council should receive a thorough assessment report about the demolition.	€1,000	Client	15/08/2022	5%	M	L	M	M	€1,000	€3,000	€8,000	€350
CONSTRUCTION																									
9	CRE 2.4	Need and Purpose are not clearly defined	Bring doubt to the project and make other parties' action action possible	Live	21/06/2022	Contractor	M	H	M	H	M	Installation of a well defined code of work using software	The need and purpose of the project have to be mentioned and defined accurately.	€1,000	Client/owner	24/11/2022	5%	L	L	L	L	€1,000	€2,000	€2,500	€100

- Develop a comprehensive Work Breakdown Structure (WBS), outlining project tasks and their hierarchy.
- Define project milestones and identify critical paths to ensure timely completion.
- Estimate the duration and costs associated with each project activity.
- Utilize Primavera P6 and MS Project to create a logically linked bar chart program.
- Identify and analyze both internal and external stakeholders, assessing their power, interest, and support levels. Develop effective communication strategies to address their needs.
- Create a risk register, identifying potential project risks and outlining pre- and post-mitigation strategies. Include assessments of minimum, likely, and maximum costs and time associated with each risk.
- Compile an Executive Summary report for the client.