

Arup**Sustainability**

Appendix Q

**Estimated Construction
Employment**

Eveleigh Heritage Walk - Estimated Number of Construction Employees
Project No: 6096

The purpose of this document is to assist Arup estimate the likely Local Employment Generation for the construction of the Bridge, which is a DG Requirement for the Project Application. The figures should not be used for any other purpose.

This table represents an estimation of construction employment numbers based on typical positions that may be required during the construction works. The estimate does not represent the total number employed throughout the duration of the project as different positions will be required at various times during construction. The estimate does not consider total manhours for the project.

Activity	Task	Equipment/staff	Estimated workers	Comments
Site establishment	Crane to lift offices/amenities	Crane, dogman etc	2	
	Set up of amenities	Services	2	May vary depending on the service reqs and whether general contractors can set up.
	Set up of amenities	General staff	0	General Staff as part of construction contractors
Set up of 400-tonne crane	Aux crane to lift 400T Crane	Crane, dogman etc	2	
	400T Crane	Crane, dogman etc	2	
60-90T Cranes	Lifting of precast concrete shells for north and south columns, ramps, stairs et	Crane, dogman etc	2	Depends on whether North and South establishment is being undertaken in parrallel.
Smaller cranes	Lifting of reinforcement cages, falswork and formwork elements	Crane, dogman etc	2	Depends on whether N and S establishment is being undertaken in parrallel.
Piling	Piling	Bore rig	2	Depends on whether N and S establishment is being undertaken in parrallel.
Excavation and spoil trucks	Excavation of soil/preparation of hardstand	Excavator/bobcat/dozer	3	Depends on whether N and S establishment is being undertaken in parrallel.

Activity	Task	Equipment/staff	Estimated workers	Comments
Concrete mixing and pumping	Spoil truck	Truck	1	Depends on the number of trucks required for cartage
	Concrete for formwork and falsework	Concrete truck	1	Depends on amount of concrete required and if undertaken in parallel.
	Concrete for formwork and falsework	Concrete pump truck	2	Depends on amount of concrete required and if undertaken in parallel.
	Concrete for formwork and falsework	refer General Construction hands below	0	
Temporary fence/scaffolding	Erecting temporary fences, including new jersey barriers	Fencing contractor	4	Depends on the extent of fencing.
	Scaffolding	Scaffolding contractor	4	Depends on the extent of scaffolding.
General construction work	Project Manager		1	
	Site Manager/Head Foreman		1	
	Environmental/OH&S Manager		1	
	General Contractors	Undertake general construction works including concreting, set up of ramps, enviro protection works etc	6	Depends on the number of contractors employed by the head contractor and the nature of the general works.
Other Trades	Plumbing and Electrical	Tradesmen	4	
Fabrication of bridge support columns and bridge construction	Fabrication/welding of support columns and bridge construction	Specialist fabricators	6	Depends on the number of contractors employed/project timeline.
		Total personnel	48	

