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Irwinconsult is a flexible and responsive multi-discipline practice providing a total engineering consultancy service for building and infrastructure development.

Our core business is the provision of engineering consultancy services. A portfolio of iconic buildings including the Sidney Myer Music Bowl, the Academy of Science in Canberra and BHP House in Melbourne established Irwin Johnston and Partners as one of the leading engineering consultancies in Australia.

Our long-term stability is a direct result of our client-focused approach. The success of our ethos has resulted in long-standing relationships with many of our clients, including universities and educational institutions, government agencies, major construction companies, corporate clients, hospitals and health facilities, and many of the most respected architects and architectural practices in Australia.

With a management culture that supports and encourages engineering excellence, our staff take professional pride in developing fully resolved and refined engineering design solutions that meet the functional and financial parameters established by our clients.

We are Irwinconsult.

## shape the present historical redevelopment

Monash University, Menzies Building Redevelopment, Clayton Campus project has a project value to more than \$50 million.

The project has been developed by Designinc in collaboration with Irwinconsult and several other design and construction groups.

Irwinconsult were engaged to provide Structural, Civil & ESD services on the redevelopment of this historically significant 1960's 12 storey building.



The Menzies building is the largest building on campus and an extensive redevelopment plan was developed by Designinc to bring the building inline with current usage requirements.

The key aspect of the redevelopment is the addition of vertical access incorporating two feature wing staircases, a standalone lift core and extensive reworking of the existing building layout.

Revit Structure was used in conjunction with the Architectural model from Designinc received in IFC format for this complex project. Existing structure was modelled with accurate detail to ensure co-ordination of retrofitting and demolition works.

Phasing was used to identify and highlight the required construction sequencing.

Revit Structure enabled the easy coordination of all aspects of the structural works. This was particularly beneficial when combined with the Architectural model.

The consultant team developed the design with visual references resolving any difficulties early in the design process.

Irwinconsult have been using Revit extensively since 2007 with support from KarelCAD.

