

## Sustainability Review

### Re: Development Condition E41 – ESD Project Sign Off

Northrop has been engaged to provide a confirm the incorporation of the projects ESD measures nominated within the Development Conditions.

The sustainability strategy for the overall project aims to provide an exemplary, healthy and state-of-the-art regional library where the community can connect within an inclusive community environment.



Figure 1 Gosford Regional Library Sustainability Strategy Summary

The following key initiatives and targets were set in the development documentation and included within the project ESD Initiatives and Targets – Summary Matrix.

- Reduction in the projects operational Greenhouse Gas Emissions
  - o Efficient building design
  - o Onsite renewable energy generation
  - o Removal of gas from the facility
- The removal of fossil fuels from the facility
- The use of lower impact refrigerants
- The inclusion of improved operational control in the mechanical systems to deliver improved occupant comfort.
- Considered lighting selection to improve visual comfort
- The use of lower impact materials through the structure and finishes within the building.
- The improvement of indoor air quality through improved ventilation and the minimisation of indoor pollution.
- Improved potable water efficiency through selection of efficient fixtures and fittings supported by the installation of a rainwater capture and reuse system.

This process was detailed within ESD reporting submitted with the project planning approval application and is referenced within development conditions C26 and E41.

### REVIEW

Northrop have completed a review of the provided by North as the Head Contractor for the project. This has included the following key items

- Building Management System Functional Description
- Design Certifications from the project consulting and contractor team

- Documentation of the project Domestic Hot Water System
- Workshop drawing sets
- Solar design documentation
- Thermal comfort Zoning
- Lighting data sheets
- Materials certifications for Steel
- Documentation on finishes and materials selected
- Confirmation provided by the Structural engineer on concrete compliance
- Hydraulic confirmation and as built drawings

### CONCLUSION

From these documents, confirmations and the modelling completed during the design and construction of the project, Northrop has been able to verify the inclusion of all initiatives nominated within Appendix A of our email Development Application ESD Statement (ESD Initiatives and Targets – Summary Matrix) as nominated in condition C26 and E41 of the project Development Application conditions.

Please take this letter as evidence that, based on the information provided by North to Northrop Consulting Engineers the outcomes targeted within the nominated initiatives and measures have been incorporated into the project.

Should anything within this confirmation be deemed unclear or require further discussion please feel free to contact the undersigned.

Kind Regards



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