

Project Title	Spenborough Pool	Prepared by	JP
Project Number	A097478-1	Reviewed by	RE
Report	Planning Application Item 9 (A10) Ventilation Statement	Date	02/05/19

Spenborough Pool Planning Application Item 9 (A10) Ventilation Statement

Where feasible, rooms within the proposed new build Spenborough Pool will be naturally ventilated to reduce the energy consumption of the building. Due to the nature of some of the rooms within the building and the requirements for cooling and environmental conditioning, mechanical ventilation will be provided.

Heat recovery will be provided within the ventilation units to temper the incoming fresh air, thereby reducing the energy requirements of the ventilation systems.

The specific fan powers for the ventilation units and the efficiency of the integral heat recovery units will be in accordance with all relevant guides and standards including Building Regulations Part F and Part L.

The fresh air intakes for the ventilation units will have suitable separation from the exhausts to prevent cross exchange of the air paths.

All intake, exhaust, supply and extract systems include attenuators to reduce breakout noise both within the building and external to the surrounding areas.

The main air handling units serving the pools and viewing areas will be located in the Level 01 external plant area. The ductwork will be routed from this area, entering the pool accommodation at high level.

The supply air ductwork within the pool areas will be routed at high level within each of the spaces by the means of fabric ductwork. The supply air will be of low velocity and will be conditioned to ensure a suitable differential of the room temperature to the pool water temperature is maintained. The extract ventilation for the pool areas will be at high level.

All services within the pool areas will need to be suitable for protection against corrosion, including ductwork fixtures and fittings.

An air handling unit serving the gym, fitness studios and the spinning studio is located within the level 01 plant area, the ductwork is routed from this area both through the building and on the roof to provide the fresh air requirements to the areas served.

For rooms including the fitness suite and the gym, mechanically ventilation will be provided to supply minimum fresh air for occupants in accordance with all relevant standards and guides including Building Regulations Part F. An air handling unit will be located within the level 01 plant area provides the ventilation rate for these spaces and will be controlled in accordance with the CO2 levels monitored within the rooms, with variable speed fans provided within the ventilation units.

With the exception of the pool accommodation, the heating and cooling demand for the rooms will not be met by the fresh air ventilation units alone. Cooling units such as cassettes or fan coil units will condition the room to meet the temperature set-points.

Toilet accommodation will be served with mechanical supply and extract ventilation by means of dedicated ventilation units with heat recovery. Resilience will be provided by means of duty-and-standby fan motors within the ventilation units.

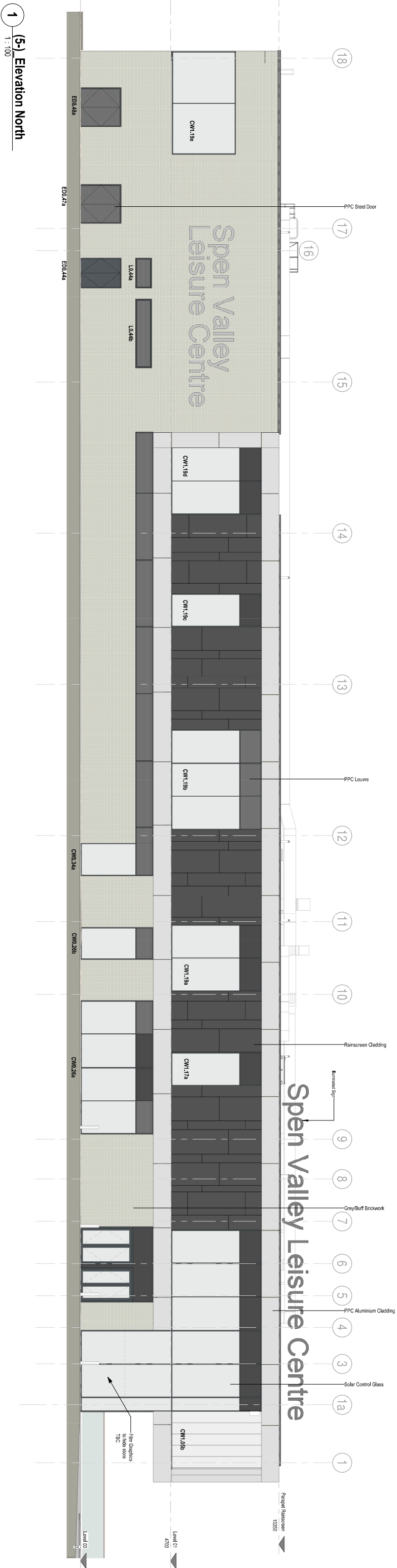
The plantrooms will be naturally ventilated to allow for heat dissipation and to provide air for combustion.



Appendix A: stage 3 ventilation layouts



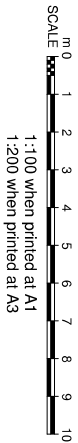
Appendix B: Architectural elevations including louvre positions

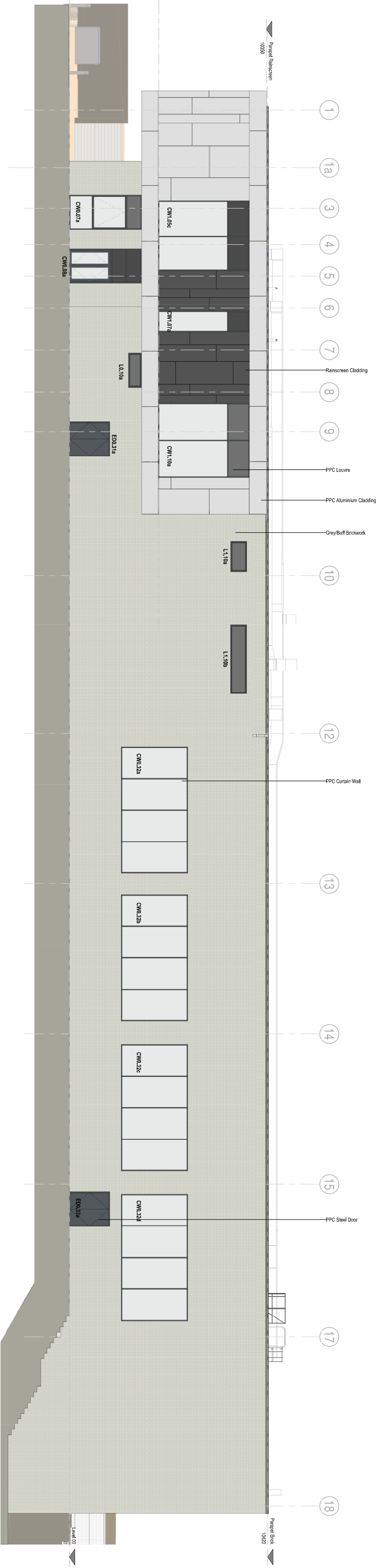


1 (5)-Elevation North
1 : 100

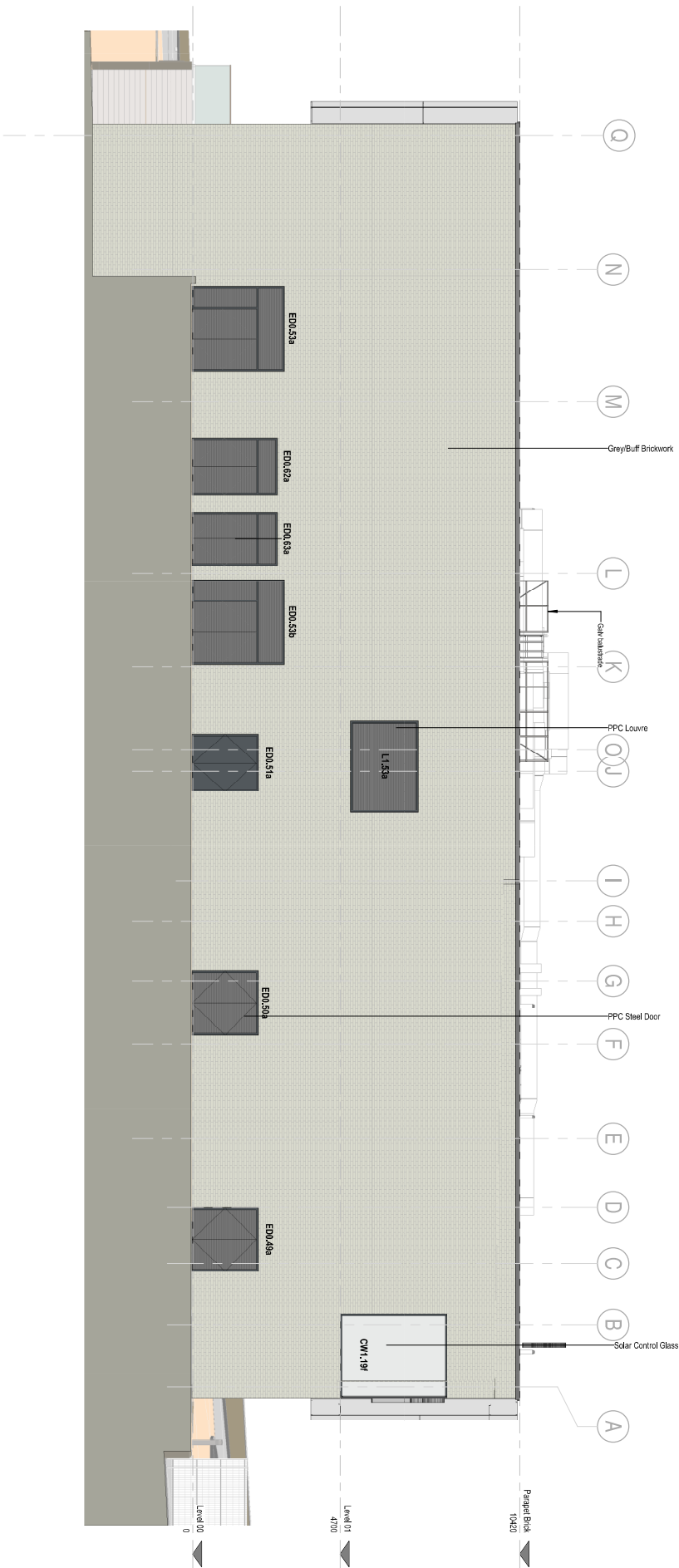


2 (5)-Elevation West
1 : 100





1 (5)-Elevation South
1 : 100



(5)-Elevation East
1 : 100

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