

26 November 2024

Richard Crookes Construction
Level 14, 558 Pacific Highway
St Leonards NSW 2065

Attention: Cameron Holley

Re: IMHC – Mod 2 Flood Mitigation Statement (SSDA 44034342)

Dear Cameron,

D&E understands that the maximum flood water level as noted by RCC is 18900 RL.

Major mechanical plant withing D&E scope affected by this flood level is as follows:

- Chiller plant in room M-200 Mech Plant 2, serving the whole building. Chillers are located in a RL 17500 portion of the room.
- Condenser water and chilled water pumps in room M-200 Mech Plant 2, serving the whole building. Pumps are located in a RL 18400 portion of the room.
- Associated mechanical switchboards (MSSBs) in room M-200 Mech Plant 2. MSSBs are wall mounted above a RL 18400 portion of the room.
- Air handling unit (AHU) serving corporate admin and fan coil units serving adjacent electrical distributor in room M-500 Mech Plant. Room is at RL 17900.
- Associated mechanical switchboards (MSSBs) in room M-500 Mech Plant.

Mitigation measures are as follows:

Chillers

The L00 water-cooled chillers are considered non-essential, as under an emergency load shed environment the L09 air cooled chiller provides essential cooling (and heating). Flood mitigation measures in this case are for asset protection.

M-200 Mech Plant 2 is to be protected by flood barrier (by RCC). Should this fail, major electrical components on the chillers (switchgear, compressors) are likely to be located above the 18900 flood level (1400 above floor), subject to confirmation of final chiller selections.

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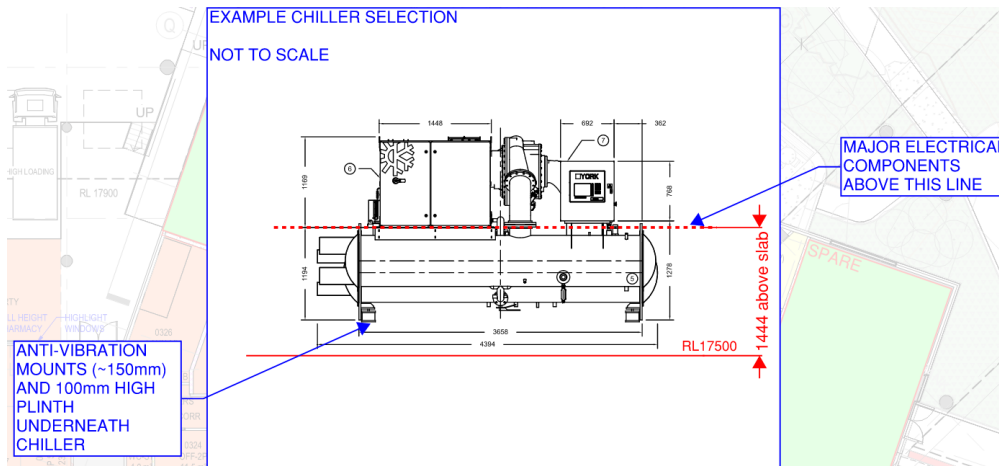
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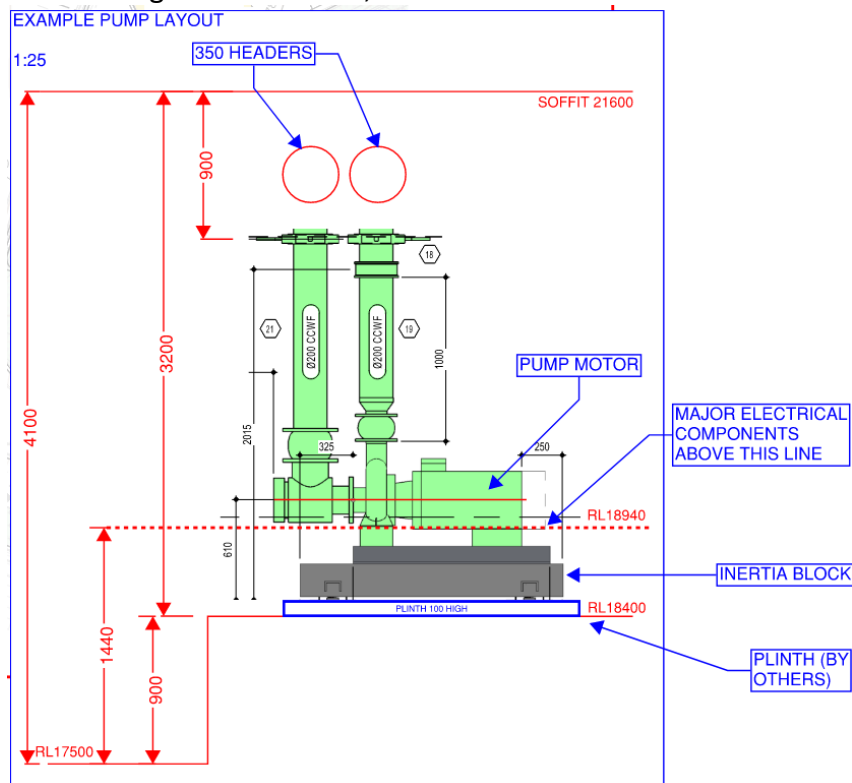


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Pumps

The associated pumps in L00 M-200 Mech Plant 2 (CHW, Condenser water) are located in a higher RL 18400 section of the room. These pumps are also considered non-essential. Once the plinths, inertia bases and framing are considered, the motors will be located above the RL 18900 flood line.



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Mechanical switchboards (M-200)

MSSBs in M-200 are able to be wall mounted, above the flood level, providing the backing walls are core-filled block construction.

Mechanical plant in M-500

It is considered acceptable by the project team for the mechanical plant serving corporate admin and the L00 distribution room to be exposed to flood risk. D&E understands the L00 distribution room is fully redundant with the distribution room located on L09.

Written on behalf of D&E Air Conditioning Pty Ltd.

Vivian Wheatley
Project Engineer



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