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consulting civil structural hydraulic engineers

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Our Reference No: 22073

24 October 2022

Sarkis Elias
Central Civil
256B New Line Road,
Dural, NSW 2158

Dear Sarkis

Re: Woolworth's Customer Fulfilment Centre site
74 Edinburgh Rd, Marrickville (the Site) cnr with Sydney Steel Rd.
Subject: Demolition Work Plan TCC60-02-DWP - Review

I have reviewed your methodologies structural integrity at TCC60-02-DWP- As attached to this document) and submitted information. The demolition will need to be carefully and systematically carried out under close supervision.

We can advise that the concept is satisfactory, and that the contractor must ensure that the building design engineers' conditions are adhered to.

The demolition concept methodology plan is satisfactory and complies with AS2601.

The demolition will still need to be carefully and systematically carried out under close supervision of an experienced engineer or demolition supervisor.

The demolition concept methodology plan will be prepared with reference to but not limited to the following Australian Standards:

AS 1170.0 Structural design actions Pt 0 – General principles
AS 1170.1 Structural design actions Pt 1 – Permanent, imposed d other actions
AS 1684 Timber framing code;
AS 1720.1 Timber structures. Part 1;
AS 1720.2 Timber structures. Part 2;
AS 2601 The demolition of structures
AS 3600 Concrete structures;
AS 3700 Masonry structures;
AS 4100 Steel structures;

Also:

Safe Work Australia – Managing the risk of falls at workplaces and others as needed

Australian Standards compliance is subject to the following conditions:

1. The safe working loads are strictly adhered to for all machinery and lifting equipment.
2. Demolisher is to carry out a Risk Analysis and prepare a Safe Work Method Statement (SWMS) on the demolition sequence to ensure workers and remaining or adjacent building elements are protected during the demolition process.
3. Ensure that when craning components to or from the Building that a trained and qualified person is in attendance to continuously monitor the works.
4. Ensure the machinery is positioned on the stable sections of any suspended slabs at all times during any hammering or cutting processes.
5. Ensure the heavy machinery is kept clear of the edges of any suspended slabs during demolition unless a propping system is designed and installed.
6. Ensure that dismantled components are transported to bins or trucks immediately.
7. Recycle where possible.
8. No dismantled components are to be stacked on any suspended floors.
9. Sequence of demolition is to ensure not to demolish sections of the Building which may be hung and require support.
   These areas must be demolished last following loads from any hanging beams are removed.
10. A licensed restricted demolition supervisor signs off the SWMS as being in accordance with the Demolition Code of Practice (2012) and Australian Standards AS2601. A restricted licensed holder must always be present to supervise demolition activities.
11. Ensure that any free edge with insufficient cantilever capacity are propped to capacity, as designed by this office are installed, prior to demolition progressing.
12. Ensure that when demolishing near occupied or pedestrian thoroughfare areas that additional care and traffic control measures are used.

13. Ensure sufficient investigation is carried out of connections and ties to components to be demolished, so that these components are released systematically and safely prior to the main demolition being carried out.
14. Ensure when felling materials to other floors that you maintain control and particle size is commensurable with the conditions of the Building.
15. Ensure the stability of all sections of the structure remain stable at all times during any shear cutting, hammering or pulverizing of the individual Buildings components.
16. Care must be taken when demolishing boundary walls to maintain the structural integrity of these wall and or adjacent or continuing walls.
17. Ensure when demolishing near the boundaries, that all sections of the building strategically fall inward inside the demolition area in a controlled manner.
18. Regardless of care taken barricade off the side street parking areas with barriers.
19. If using mechanical felling processes on suspended floors, ensure that only approved machinery is used to remove section of the Building and slabs.
20. The capacity of any suspended floors being traversed by machinery is certified as being capable of taking the assessed loads from the machines.
21. Ensure to maintain the structural elements of the Building's framing system in order to retain the structural integrity of the rest of the structure.
    This process / sequence would be the subject on an intended following document.
22. Ensure that the propping is protected from moving plant and equipment and cannot be vandalized or inadvertently altered by workers.
23. Ensure any and all asbestos and other dangerous materials are removed from the Building and the Site before the demolition works commence.
24. This is to be checked and certified by a licenced asbestos hygienist.
25. Control all dust etc with water sprays.
26. Ensure all electric circuits are deenergised before commencing any work.

27. Ensure all gas and or water lines are decommissioned before commencing any work.
28. Remove all glass from the Building before any heavy demolition commences so that stress wracking of the Building does not cause inadvertent glass explosions.
29. Roof fall arrestor attachment points to be inspected by this office or a fall arrestor installer before workers are allowed on the roof with harnesses to remove roofing.
30. Hay bales to be installed continuously around all lower sections of the Site on the pavement wrapped in geotextile material to contain any and all deleterious materials.
31. Also, to extend hay bale barriers around any drainage pits to control water going to any stormwater systems.

If a planned demolition stage is incomplete at the end of a working shift, the demolisher is to install adequate propping, and or bracing and barriers around the area to ensure the remaining structure remains stable.
This is important during large wind events or periods of high wind which can happen at any time so this safeguard shall always be put in place.

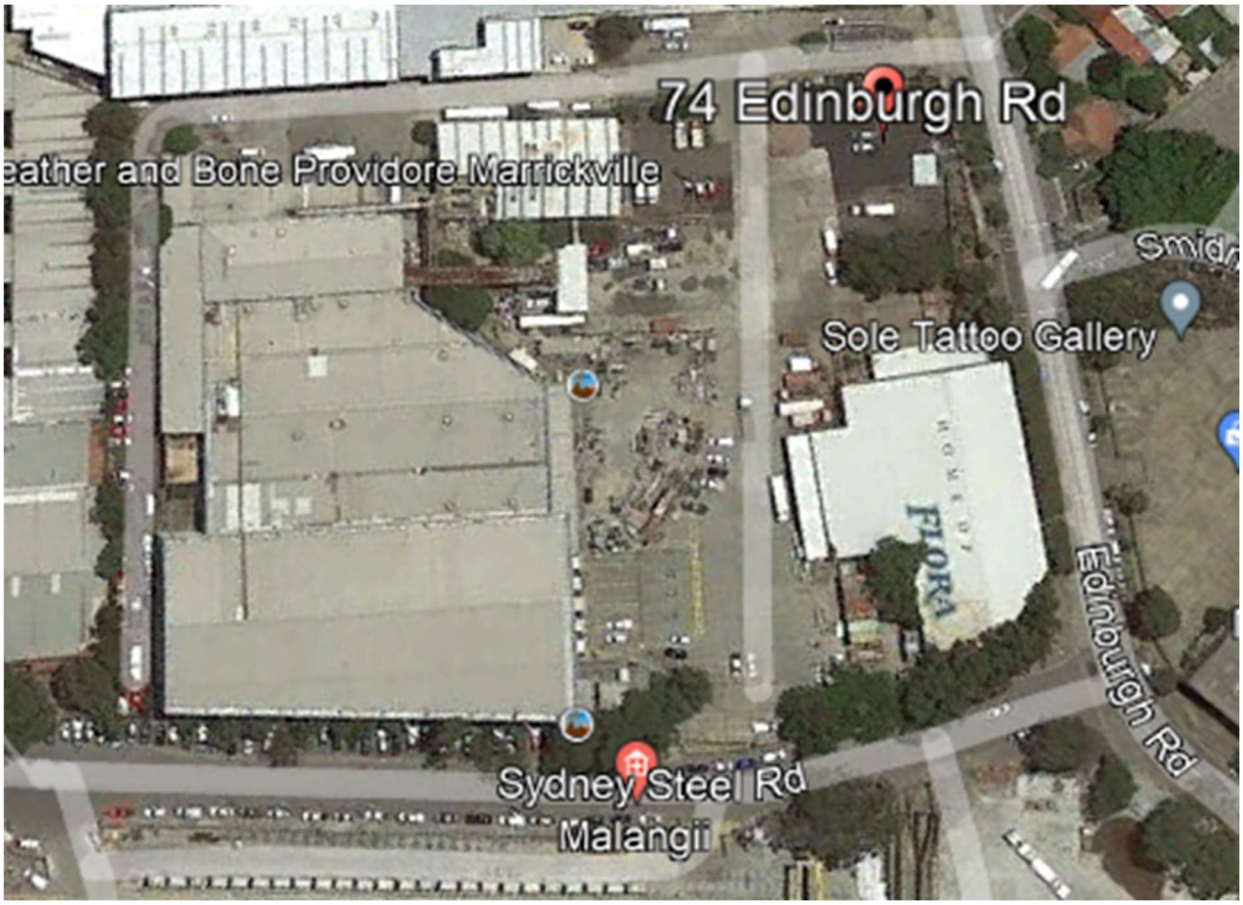
This assessment does not relieve the contractor and or head contractor / builder of the responsibility of ensuring all equipment is in good repair, meets the requirements of Australian standards and code of practice, and follows all precautions necessary in carrying out the works.

This document is valid until any item of importance changes at the Site requiring a fresh

This document is valid until any item of importance changes at the Site requiring a fresh
appraisal by this office or another engineering office.
If you have any questions, then please ask then follow up with an email.

Yours sincerely
PETER BLACKER AND ASSOCIATES

Peter Blacker
BE(Civil), MIEAust, CPEng, NER, APEC Engineer, IntPE(Aus)



The Site aerial picture taken from Google Earth showing Edinburgh and Sydney Steel Roads