



Core Engineering Group • Fire • Risk • Emergency Management

Our Ref: F200883_SOS_FINAL

6 July 2018

Group GSA
Level 7, 80 William Street
East Sydney NSW 2011

Attention: Rajat Khanna

Dear Andy

RE: Fire Engineering Statement of Suitability | Plasser Australia - Paint Shop Alterations | 25 Kurrajong Road, North St Marys

The purpose of this statement is to provide confidence to the Authority Having Jurisdiction that the new works have immaterial impact on the fire engineering assessments previously undertaken for the building (Our Ref: 20028_FER_03 dated 31 March 2015). The works include the Modification and extension of the paintshops to the west of the existing workshop building.

The assessment undertaken concluded that the building design, layout of exits and the existing fire safety strategy suitably ameliorates the level of risk in the design such that the building will satisfy the fire safety Performance Requirements of the Building Code of Australia. Subsequently the new works are considered to be consistent with the contents of the current fire engineering report and do not compromise, nor significantly alter the existing fire safety strategy.

We trust that the attached statement is sufficient for your needs with respect to the fire safety design and compliance with the relevant building regulations for building and occupation permits in this regard.

Should any further information be required for a determination of any building permits to be made please contact the undersigned on 02 9299 6605.

Yours faithfully

Graham Morris
Fire Safety Engineer

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FIRE ENGINEERING | STATEMENT OF SUITABILITY OF DESIGN

CERTIFICATE NO. :	F200883_SOS_FINAL
PROPERTY DETAILS:	Plasser Australia - Paint Shop Alterations, 25 Kurrajong Road, North St Marys
CLIENT :	Group GSA
DATE :	17 September 2018

	BASE BUILDING	PROPOSED WORKS
DESCRIPTION OF WORKS :	The building site contains several existing structures. The 2015 works consisted of a new factory building and covered work area, connected to the existing workshop and office space.	Modification and extension of the paintshops to the west of the existing workshop building.
CLASSIFICATION(S) :	Class 8, Class 5	Not altered by new works
RISE IN STOREYS :	2	Not altered by new works
CONSTRUCTION :	Type A (Type B for the factory building)	Not altered by new works
EFFECTIVE HEIGHT :	Less than 12 m	Not altered by new works

BASIS OF STATEMENT

This statement is to the best of our knowledge and belief, true and accurate and is based upon: –

- The alternative solutions as detailed in the base building Fire Engineering Report 20028_FER_03 dated 31 March 2015.
- Paint Workshop Demolition Plan, drawing 2000 by Group GSA.
- Paint Workshop Plan, drawing 2001 by Group GSA.
- BCA Report by McKenzie Group dated 17 September 2018, Revision D.
- Fire wall (FRL of 240/240/240) to be provided separating the new paint workshop from the existing warehouse.

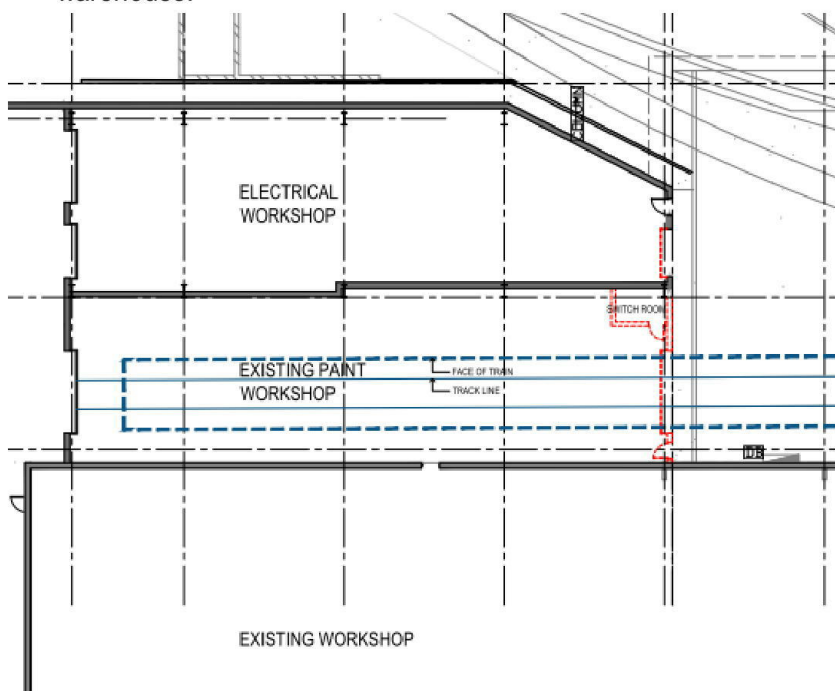


Figure 1: Existing Layout – Demolition Plan

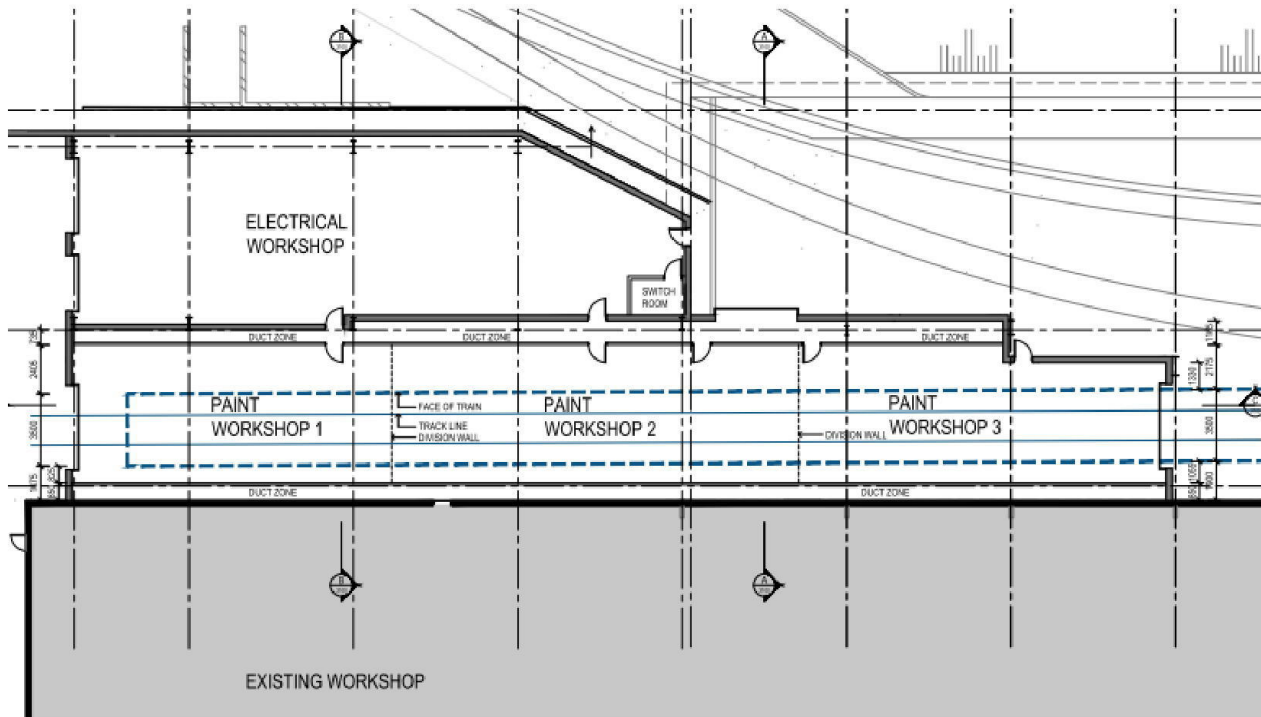


Figure 2: Proposed New Paint Workshop Layout

The fire engineering analysis undertaken within the existing FER (20028_FER_03) does not address the entire facility, only the extension depicted in Figure 3 and Figure 4.

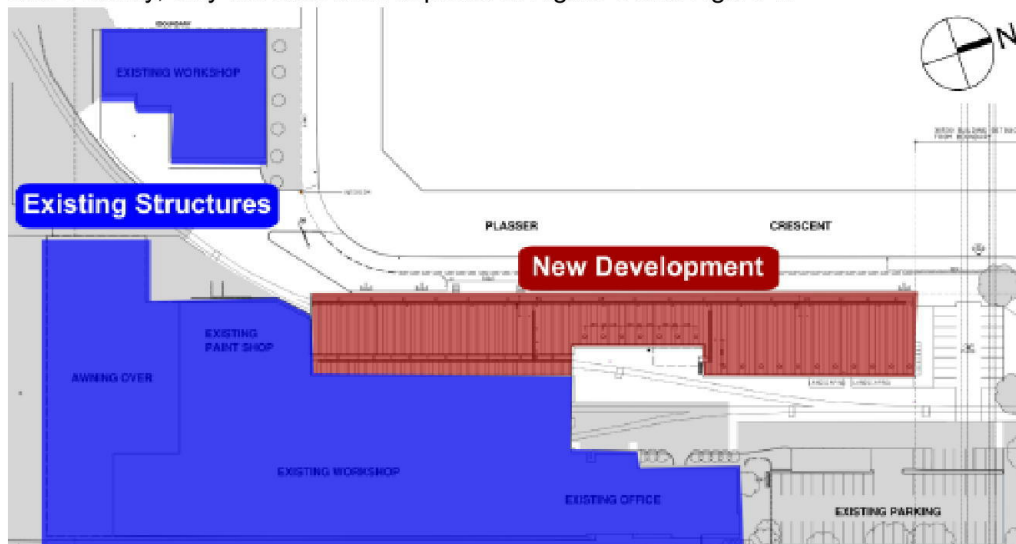


Figure 3: Scope of FER (20028_FER_03)



Figure 4: Scope of FER (20028_FER_03)

It can be seen that the extension of the paint workshop encroaches into the covered work area previously assessed in the FER.

SUMMARY OF FER ASSESSMENTS (20028_FER_03)		
FER ref	ASSESSMENT	IMPACT OF NEW WORKS
8.2	Reduction of FRL of external walls of the factory building (eastern wall)	Nil Impact
8.2	Reduction of FRL of external walls of the factory building (southern wall)	<p>This assessment relied on the covered work area as equivalent to open space. Although the smoke reservoir is altered by the extension of the paint shop, it appears that the open perimeter would remain the same; and thus the CFD modelling undertaken would not be affected.</p> <p><i>It must be ensured that the new works maintain the requirements of the FER, specifically:</i></p> <ul style="list-style-type: none"> • <i>The awning will have to be structurally independent. It can be tied back to each of the building structures for lateral support, but these must be via connections that fail under stress to ensure the failure of the awning (due to collapse of one or more of its columns) will not compromise the structural integrity of the adjacent buildings.</i> • <i>The northern external wall (between the existing building and the new factory building) shall be open to allow free venting. Should security measures be required in this part, then a chain mesh fence/gate may be provided.</i> • <i>Louvers shall be incorporated along the length of the Eastern Ridge.</i>
8.2	Reduction of FRL of external walls of the factory building (western wall)	Nil Impact
8.3	Extended travel distance from service pit	Nil Impact

LIMITATIONS & EXCLUSIONS

This statement does not constitute a Compliance Certificate in accordance with Part 4 of the *Environmental Planning & Assessment Act 1979*. It is based on a desktop assessment of the architectural drawings and relies upon the identification of Building Code of Australia deemed-to-satisfy non-conformances by the BCA consultant/Accredited Certifier. This statement should not be considered as a testing or maintenance procedure relating to any essential fire safety services nor act as a guarantee or warranty of any kind.

This statement relates only to the building works contained within the nominated documentation and excludes –

- The installation and operational capacity of electrical, mechanical, hydraulic, fire and general building services;
- Confirmation of compliance of any building services or provisions in accordance with the relevant BCA requirements, Australian Standards, fire engineering requirements or manufacturer's requirements particularly where such services are required to meet the prescriptive requirements;
- Independent service provider requirements for fire safety relating to electricity, gas, water and telecommunications.

STATEMENT OF SUITABILITY

The design of the building works is considered to be consistent with the existing Fire Engineering Report and subsequently compliance with the Building Code of Australia is capable of being achieved, subject to:–

- Compliance with the Deemed-to-Satisfy requirements for the area of the works, except for any parts which are specifically identified in the base building Fire Engineering Report (20028_FER_03 dated 31 March 2015); and
- Compliance with the fire safety measures (as identified through the base building Fire Engineering Report).

Author:



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Verified:



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