



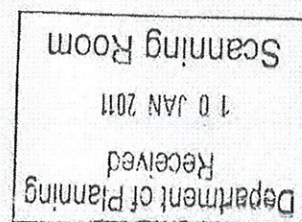
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22 December 2010

Major Projects Assessment
Department of Planning
GPO Box 39
Sydney NSW 2001

ATTENTION: Shivesh Singh

Dear Sir/Madam,



MAJOR PROJECT APPLICATION – MP09_0209
396 Lane Cove Rd (32-46 Waterloo Rd) & 1 Giffnock Ave, Macquarie Park

I refer to the Department of Planning's letter dated 1 December 2010 regarding the proposed development at the above address.

Rail Corporation New South Wales (RailCorp) has reviewed the proposal and asks that the following issues be addressed in the conditions for this proposed development.

1. Noise and Vibration

RailCorp is concerned that the future occupants of the development will encounter rail-related noise and vibration from the adjacent rail corridor. Rail noise and vibration can seriously affect residential amenity and comfort, jeopardise the structural safety of buildings, and thus should be addressed early in the development process.

The Department of Planning has released the document titled "Development Near Rail Corridors and Busy Roads- Interim Guidelines". The document is available on the Department of Planning's website.

Your Department is therefore requested to impose the condition of consent:

- *An acoustic assessment is to be submitted to The Principal Certifying Authority prior to the issue of a construction certificate demonstrating how the proposed development will comply with the Department of Planning's document titled "Development Near Rail Corridors and Busy Roads- Interim Guidelines".*

2. Stray Currents and Electrolysis from Rail Operations

Stray currents as a result of rail operations may impact on the structure of the development. Electric currents on overhead wiring pass through the train's motor and return to the power substation via the rail tracks. Occasionally, these currents

may stray from the tracks and into the ground. Depending on the type and condition of the ground, these may be passed to the nearest conductive material (concrete reinforcement, piling, conduits, pipework and earthing rods) accelerating corrosion of metals and leading to concrete cancer. Therefore, the Applicant should consider this possible impact, and engage an expert consultant when designing its buildings. It is requested that the Department of Planning include the following condition of consent:

- *Prior to the issue of a Construction Certificate the Applicant is to engage an Electrolysis Expert to prepare a report on the Electrolysis Risk to the development from stray currents. The Applicant must incorporate in the development all the measures recommended in the report to control that risk. A copy of the report is to be provided to the Principal Certifying Authority with the application for a Construction Certificate.*

3. Geotechnical and Structural Stability and Integrity

RailCorp needs to be assured that the development has no adverse effects on the geotechnical and structural stability and integrity of RailCorp's Facilities. It is requested that the Department of Planning impose the following condition of consent.

- *The Applicant shall provide a Geotechnical Engineering report to RailCorp for review by RailCorp's Geotechnical section prior to the commencement of works. The report shall demonstrate that the development has no negative impact on the rail corridor or the integrity of the infrastructure through its loading and ground deformation and shall contain structural design details/analysis for review by RailCorp. The report shall include the potential impact of demolition and excavation, and demolition- and excavation-induced vibration in rail facilities, and loadings imposed on RailCorp Facilities by the development*
- *A geotechnical report is needed to evaluate the impact of the development on the rail tunnel below the subject site. The Applicant shall submit a Geotechnical Report for review by RailCorp to ensure that the proposed development is structurally sound and will be not jeopardise the structural integrity of the existing rail tunnel.*

4. Demolition, Excavation and Construction Impacts

During demolition, excavation and construction, there is a need to ensure that there will be no adverse impact on the integrity of RailCorp's facilities, or the operation of the network. It is requested that The Department of Planning include the following condition of consent:

- *Prior to the issue of a Construction Certificate a Risk Assessment/Management Plan and detailed Safe Work Method Statements (SWMS) for the proposed works are to be submitted to the Rail Authority for review and comment on the impacts on rail corridor. The Principle Certifying Authority shall not issue the Construction Certificate until written*

confirmation has been received from the Rail Authority confirming that this condition has been satisfied.

- *No metal ladders, tapes and plant/machinery, or conductive material are to be used within 6 horizontal metres of any live electrical equipment. This applies to the train pantographs and 1500V catenary, contact and pull-off wires of the adjacent tracks, and to any high voltage aerial supplies within or adjacent to the rail corridor.*

5. Crane and Other Aerial Operations

During construction, the use of cranes and other equipment capable of intruding into the airspace above the corridor and of operating over any overhead wiring or transmission lines must be strictly controlled. The developer must demonstrate to the satisfaction of RailCorp that all crane and other overhead operations are properly managed, and enter into an agreement with RailCorp for such operation. It is requested that the Department of Planning include the following condition of consent:

- *Prior to the issuing of a Construction Certificate the Applicant is to submit to the Rail Authority a plan showing all craneage and other aerial operations for the development and must comply with all RailCorp requirements. The Principle Certifying Authority shall not issue the Construction Certificate until written confirmation has been received from the Rail Authority confirming that this condition has been satisfied.*

Finally, it is asked that the Department of Planning forward to RailCorp a copy of the final development consent to enable RailCorp to monitor the Applicant's compliance with rail related conditions of consent.

Thank you for providing RailCorp the opportunity to comment and please contact me if you have any further enquires.

Yours sincerely,



Alexandra Stathakis
Assistant Town Planner
RailCorp Property