# **Subsidence Advisory**



FN92-00701N0 Our Ref: TBA23-03056 11 October 2023

Newcastle City Council Attn: Development Assessment Admin Via NSW Planning Portal

Lot/DP: DP/2101//755247

Address: 1 BRUNKER ROAD BROADMEADOW

DA: DA2023/00886

Dear Development Assessment Admin,

# **General Terms of Approval**

I refer to the integrated development application detailed above, referred on 21 September 2023.

The application has been assessed and approval is granted under these General Terms of Approval (GTAs) for the proposed development, subject to the conditions detailed under Schedule 1. The plans stamped with conditional approval are attached (**Tab A**).

These GTAs are issued in accordance with Section 4.47 of the *Environmental Planning & Assessment Act* 1979 for the development of land.

These GTAs only apply to the development described in the plans and associated documentation relating to DA2023/00886 on the referred date.

If the proposed development is amended or the development consent modified, Subsidence Advisory NSW must be notified in order to determine whether any variations to these GTAs are required.

To satisfy the conditions of approval please submit documentation confirming the conditions under Schedule 1 have been met via email to <a href="mailto:subsidencedevelopment@customerservice.nsw.gov.au">subsidencedevelopment@customerservice.nsw.gov.au</a>, quoting reference number TBA23-03056

Should you have any questions regarding the attached general terms of approval, please contact me on (02) 4908 4300 or at <a href="mailto:subsidencedevelopment@customerservice.nsw.gov.au">subsidencedevelopment@customerservice.nsw.gov.au</a>

Kind Regards,

Shane McDonald

Three Man

Senior Risk Engineer

### SCHEDULE 1

### CONDITIONS OF APPROVAL

Application No: TBA23-03056 DA: DA2023/00886

Applicant: Development Assessment Admin

Lot and DP: DP/2101//755247

Site Address: 1 BRUNKER ROAD BROADMEADOW

Mine Subsidence District: NEWCASTLE

Proposal: Mixed use residential and commercial development

Date: 11 October 2023

### **GENERAL**

### Plans, Standards and Guidelines

1. These General Terms of Approval (GTAs) only apply to the development described in the plans and associated documentation relating to DA2023/00886 and provided to Subsidence Advisory NSW.

Any amendments or subsequent modifications to the development renders these GTAs invalid.

2. This approval expires 5 years after the date the approval was granted if building, engineering or construction work relating to the application has not physically commenced on the land.

### PRIOR TO COMMENCEMENT OF CONSTRUCTION

3. Proposal to effectively eliminate risk of mine subsidence

Submit a proposal by a suitably qualified engineer to effectively eliminate the risk of mine subsidence via the emplacement of grout in the mine voids in accordance with the requirements outlined in **Attachment E** of the <u>Development Application – Merit Assessment Policy (nsw.gov.au)</u>.

Prior to commencing work, the following documentation must be submitted to Subsidence Advisory for acceptance:

- a) **Grout Design**; including grout locations (dimensioned in plan), and design parameters for any residual mine subsidence, if applicable.
- b) **Grout Implementation Plan**; including a site plan, grout locations, proposed bore locations.
- c) Grout Verification Plan; showing the location of verification holes.

#### 4. Independent Peer Review

Submit an independent peer review of the grouting design and implementation plan by a suitably qualified engineer to Subsidence Advisory for acceptance.

## 5. Grout Verification Output Report

On completion of grouting submit a *Grout Verification Report* in accordance with **Attachment E** of the Merit Assessment Policy, endorsed by the grout designer and site verification engineer for compliance with the accepted Grouting Plan to Subsidence Advisory for acceptance.

### 6. Design Parameters – Serviceability

Provide certification from a qualified structural engineer that the proposed structure is capable of remaining *serviceable* (as defined in section 4.7 of the Merit Assessment Policy) if subjected to post grouting subsidence parameters outlined in a grout design report accepted by Subsidence Advisory

### 7. Structural Engineer Certification

Prior to commencement of works, submit an **Engineering Impact Statement** to Subsidence Advisory NSW for acceptance. The engineering impact statement must identify the following

- a) Mine subsidence parameters used for the design
- b) Main building elements and materials
- c) Risk of damage due to mine subsidence
- d) Design measures proposed to control the risks
- e) Provide certification that the design will ensure the improvement meets the requirements of Condition 6.
- f) Comment on the:
  - likely building damage in the event of mine subsidence.
  - sensitivity of the design to greater levels of mine subsidence.

#### OR

Prior to commencement of works, submit a <u>Mine Subsidence Design Structural</u> <u>Engineer Certification Form (nsw.gov.au)</u> (**Attachment F** of the Subsidence Advisory Merit Policy).

## 8. Submit Final Design

Prior to commencement of works, submit a final design incorporating the design methodology contained in the **Engineering Impact Statement** or **Mine Subsidence Structural Engineer Certification Form**, to Subsidence Advisory for acceptance.

Certification by a structural engineer is to confirm that the requirements of Condition 6 are met.

### POST CONSTRUCTION

### 9. Survey Monitoring

Establish 4 survey monitoring reference marks on and around the circumference of the building(s) so that building movement can be monitored should mine subsidence occur.

Provide a plan with the position including Easting, Northing and RL of each monitoring reference marks and original RLs to Subsidence Advisory.

### 10. Certification of Works

Upon completion of construction, submit certification from a qualified builder or certifier that confirms construction is in accordance with the plans approved by Subsidence Advisory.

Where structural elements identified in the **Engineering Impact Statement** or **Mine Subsidence Structural Engineer Certification Form** have been certified by an engineer, details of this certification should be included with the builder/certifier's post construction certification.