



# **BUSHFIRE ATTACK LEVEL**

## **FOR FUTURE DWELLINGS AT STAGE 3**

### **FAIRWAYS ESTATE, SINGLETON NSW 2330**

Prepared by:

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|                                    |                                                                                                                                                                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Details:</b>               | Stage 3 Fairways Estate, Singleton NSW 2330                                                                                                                                                                                                                                                                                    |
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| <b>Prepared for:</b>               | McCloy Group                                                                                                                                                                                                                                                                                                                   |
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### Disclaimer

Notwithstanding the precautions adopted within this report, it should always be remembered that bushfires burn under a wide range of conditions. An element of risk, no matter how small always remains, and although the standard is designed to improve the performance of such buildings, there can be no guarantee, because of the variable nature of bushfires, that any one building will withstand bushfire attack on every occasion.



## Executive Summary

This report provides an assessment of the Bushfire Attack Level (BAL) at Stage 3 within Fairways Estate, Singleton NSW 2330 in accordance with AS3959 (2018) *Construction of Buildings in Bushfire Prone Areas* Appendix A - Method 1. This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Future development of surrounding stages may result in lower BALs than detailed in this report.

This BAL report has shown that any future dwellings within the site will be able to meet the requirements of both AS3959-2018 and the PBP 2019 (NSW Rural Fire Service NSW).



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### **Disclaimer:**

*The BALs as depicted within this report and mapping have been determined by management of vegetation where land will be cleared for future stages. It should be noted that conditions may change over time that may result in different BALs for the lots.*

*Although every care has been taken in the preparation of this BAL Report, McCloy Group and the author accept no responsibility in errors in this report or damaged resulting from the information. It should be noted that upon lodgement of a Development Application (DA) with Council or Rural Fires Service they may recommend additional construction requirements (BALs).*



## Terms & Abbreviations

| Abbreviation   | Meaning                                                                  |
|----------------|--------------------------------------------------------------------------|
| APZ            | Asset Protection Zone                                                    |
| AS2419-2017    | Australian Standard – Fire Hydrant Installations                         |
| AS3959-2018    | Australian Standard – Construction of Buildings in Bush Fire Prone Areas |
| BAL            | Bushfire Attack Level                                                    |
| BCA            | Building Code of Australia                                               |
| BPA            | Bush Fire Prone Area (Also Bushfire Prone Land)                          |
| BPL Map        | Bush Fire Prone Land Map                                                 |
| BPMs           | Bush Fire Protection Measures                                            |
| <i>EPA Act</i> | <i>NSW Environmental Planning and Assessment Act 1979</i>                |
| FFDI           | Forest Fire Danger Index                                                 |
| FMP            | Fuel Management Plan                                                     |
| ha             | hectare                                                                  |
| IPA            | Inner Protection Area                                                    |
| LGA            | Local Government Area                                                    |
| OPA            | Outer Protection Area                                                    |
| PBP            | Planning for Bushfire Protection 2019                                    |
| RF Act         | Rural Fires Act 1997                                                     |
| RF Regulation  | Rural Fires Regulation                                                   |
| SGC            | Singleton Council                                                        |



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# I INTRODUCTION

Firebird ecoSultants Pty Ltd has been engaged by McCloy Group Pty Ltd to undertake a Bushfire Attack Level (BAL) report for Stage 3 Fairways Estate, hereafter referred to as the “site”. Refer to Appendix A for Sales Plan.

This BAL report assesses the application of Australian Standard AS3959-2018 ‘Construction of Buildings on Bushfire Prone Land’ and Appendix 1 of Planning for Bushfire Protection 2019 (PBP, 2019). AS3959 (2018) Appendix A – Method 1 has been used in this assessment.

This report has been prepared to provide guidance to prospective purchasers of what Bushfire Attack Levels (BALs) may be required for future dwellings within the site.

## I.1 Site Particulars

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Locality:</b>            | Stage 3 Fairways Estate, Singleton NSW 2330 |
| <b>LGA:</b>                 | Singleton Council                           |
| <b>Forest Danger Index:</b> | 100                                         |
| <b>Current Land Use:</b>    | Approved subdivision                        |



## 2 METHODOLOGY

The Australian Standard for assessing the BAL and providing the detailed requirements for construction has been reviewed and amended with the latest version being adopted for use in bushfire prone areas of NSW in March 2020. This version is titled AS 3959-2018 'Construction of Buildings in Bushfire Prone Areas' (standards Australia 2018, was used in this assessment.

In addition, the NSW method of determining the bushfire attack level, found in Appendix 1 of the document 'Planning for Bushfire Protection 2019' (NSW Rural Fire Service 2019) has also been reviewed and amended to come into line with the process within AS 3959. Therefore, in NSW the methodology with AS 3959 is to be used to determine the bushfire attack level. AS3959 (2018) Appendix A – Method 1 has been used in this BAL assessment.

### 2.1 Vegetation Assessment

Vegetation surveys and vegetation mapping carried out on the site has been undertaken as follows:

- Aerial Photograph Interpretation to map vegetation cover and extent.
- Confirmation of the vegetation assemblage typology present via a site inspection.

### 2.2 Slope Assessment

Slope assessment has been undertaken as follows:

- Aerial Photograph Interpretation in conjunction with analysis of electronic contour maps with a contour interval of 2m.
- On site confirmation of slope measurements.



## 3 SITE ASSESSMENT

A site inspection was undertaken on the site. The following assessment has been undertaken in accordance with the requirements of PBP (RFS, 2019) and AS3959-2018.

### 3.1 Vegetation and Slope Assessment

An assessment of the slope affecting the bushfire behaviour was undertaken for a distance of 100m from the edge of the lot boundaries in the direction of the bushfire hazard. The slopes leading away from the site have been evaluated to identify both the average slope and by identifying the maximum slope present. These values help determine the level of gradient which will most significantly influence the fire behaviour of the site. Refer to Table 3-1 for Vegetation and Slope Assessment.

**Table 3-1: Vegetation & Slope Assessment**

| Direction from Site | Vegetation Classification                           | Effective Slope  |
|---------------------|-----------------------------------------------------|------------------|
| North               | Coastal Grassy Woodland                             | Downslope (0-5°) |
| East                | Managed land – future development of further stages | N/A              |
| South               | Managed land – future development of further stages | N/A              |
| West                | Managed Land - future development of further stages | N/A              |



## 4 BUSHFIRE ATTACK ASSESSMENT

### 4.1 Bushfire Attack Assessment

To determine the bush fire attack and required Bushfire Attack Level (BAL) for the proposed subdivision the following steps were followed:

1. Determination of the vegetation types within 100m of the site, as assessed in section 3 of this report.
2. Determination of the distance between the vegetation and future dwellings has been assessed in section 4.2 of this report.
3. Determination of the effective slope as assessed in section 3 of this report.
4. A FFDI of 100 was determined for SGC LGA.

### 4.2 Determination of Bushfire Attack Levels

The results from the above steps were used to calculate the required BAL in accordance with Method 1 & Detailed Method 2 of AS 3959 – 2018.

The results from this bush fire attack assessment are detailed below in Table 4-1– Bushfire Attack Level (BAL) Assessment and Figure 4-1 Bushfire Attack Level Map.

**Table 4-1: Bushfire Attack Level Assessment**

| Proposed Lot | Vegetation Type within 100m & Direction from future dwellings | Average Slope of Land (degrees) | Separation Distance from Identified Vegetation | Bushfire Attack Level (BAL) | Construction Section                     |
|--------------|---------------------------------------------------------------|---------------------------------|------------------------------------------------|-----------------------------|------------------------------------------|
| 301          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 302          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |

| Proposed Lot | Vegetation Type within 100m & Direction from future dwellings | Average Slope of Land (degrees) | Separation Distance from Identified Vegetation | Bushfire Attack Level (BAL) | Construction Section                     |
|--------------|---------------------------------------------------------------|---------------------------------|------------------------------------------------|-----------------------------|------------------------------------------|
| 303          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 304          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 305          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 306          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 307          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 308          |                                                               | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |

| Proposed Lot | Vegetation Type within 100m & Direction from future dwellings | Average Slope of Land (degrees) | Separation Distance from Identified Vegetation | Bushfire Attack Level (BAL) | Construction Section                        |
|--------------|---------------------------------------------------------------|---------------------------------|------------------------------------------------|-----------------------------|---------------------------------------------|
|              | Coastal Grassy Woodland                                       |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP    |
| 309          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 310          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 311          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 312          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 313          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 314          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 315          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 316          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 317          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 318          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 319          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |



| Proposed Lot | Vegetation Type within 100m & Direction from future dwellings | Average Slope of Land (degrees) | Separation Distance from Identified Vegetation | Bushfire Attack Level (BAL) | Construction Section                        |
|--------------|---------------------------------------------------------------|---------------------------------|------------------------------------------------|-----------------------------|---------------------------------------------|
| 320          | N/A                                                           | N/A                             | N/A                                            | BAL-LOW                     | Section 3 & 4 of AS3959 and Sect 7.5 of PBP |
| 321          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP    |
| 322          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP    |
| 323          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP    |
| 324          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP    |
| 325          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP    |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP    |

| Proposed Lot | Vegetation Type within 100m & Direction from future dwellings | Average Slope of Land (degrees) | Separation Distance from Identified Vegetation | Bushfire Attack Level (BAL) | Construction Section                     |
|--------------|---------------------------------------------------------------|---------------------------------|------------------------------------------------|-----------------------------|------------------------------------------|
| 326          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |
| 327          | Coastal Grassy Woodland                                       | Downslope (0-5°)                | 16-<23m                                        | BAL-29                      | Sect 3 & 7 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 23-<32m                                        | BAL-19                      | Sect 3 & 6 of AS3959 and Sect 7.5 of PBP |
|              |                                                               |                                 | 32-<100m                                       | BAL-12.5                    | Sect 3 & 5 of AS3959 and Sect 7.5 of PBP |

\*To Note: The construction requirements for the next lower BAL than that determined for the site may be applied to an elevation of the building where the elevation is not exposed to the source of the bushfire attack. An elevation is deemed to be not exposed to the source of bushfire attack if all the straight lines between that elevation and the source of bushfire attack are obstructed by another part of the building. However, this does not apply to BAL-12.5.

This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Building location and design will influence the application of the required BALs. For example, a lot indicated as being affected by BAL-29 may have those facades that are not exposed to the bushfire threat constructed to a lower BAL (i.e., BAL-19), reducing the costs of construction and providing more flexibility in choice of external building materials. Refer to Appendix B for Summary of AS3959-2018 Construction Standards and Additional Building Requirements.

Legend

- Subject Site
- 100m Buffer
- 25m APZ
- 16m APZ
- 12m APZ
- Coastal Grassy Woodland
- Grassland
- BAL 29
- BAL 19
- BAL 12.5

**Disclaimer**  
The BALS as depicted on this map have been determined by vegetation within 100m of the site at the time of the assessment in September 2025. It should be noted that conditions may change over time, that may result in different BALS for the site. Although every care has been taken in the preparation of this map the author accepts no responsibility for any misprints, errors, omissions, inaccuracies in these maps or damages resulting from the use of this information.

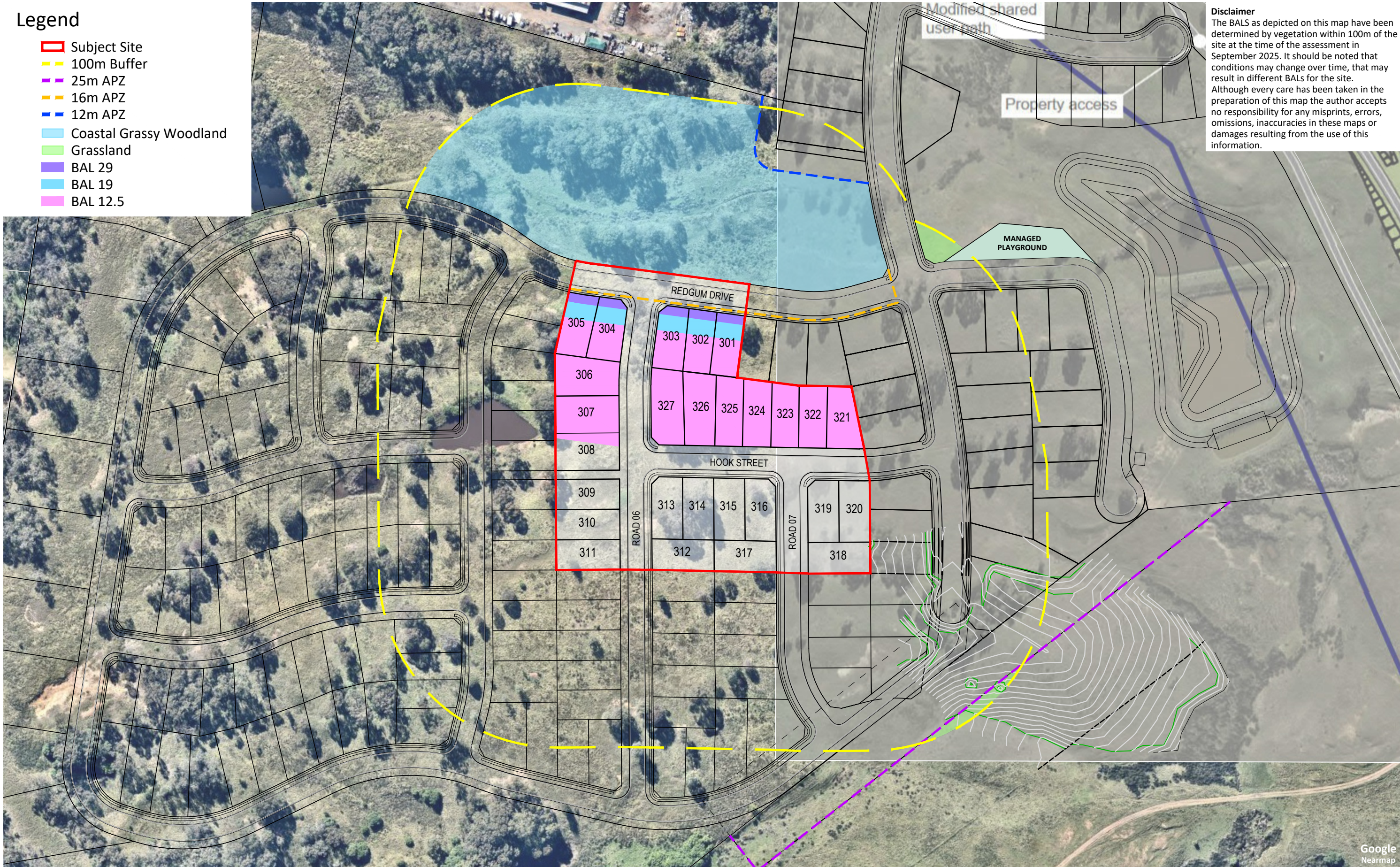
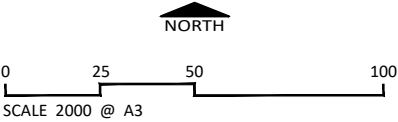


FIGURE 5-1: BUSHFIRE ATTACK LEVELS

CLIENT  
SITE DETAILS  
DATE

McCloy Group Pty Ltd  
Stage 3 Gowrie / Singleton  
1 October 2025



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P O Box 354 Newcastle NSW 2300



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## 5 CONCLUSION

This report provides an assessment of the Bushfire Attack Level (BAL) in accordance with AS3959-2018 Construction of Buildings in Bushfire Prone Areas for Stage 3 Fairways Estate, Singleton NSW 2330.

This BAL report assesses the application of Australian Standard AS3959-2018 'Construction of Buildings in Bushfire Prone Land' and Appendix 1 of Planning for Bushfire Protection 2019 (PBP, 2019).

This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Future development of surrounding stages may result in lower BALs than detailed in this report.

This BAL report has shown that any future dwellings within the site will be able to meet the requirements of both AS3959-2018.



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### ***Disclaimer:***

The BALs as depicted within this report and mapping have been determined by vegetation within 100m of Stage 3 at the time of the assessment October 2025. It should be noted that conditions may change over time that may result in different BALs for the lots.



## 6 BIBLIOGRAPHY

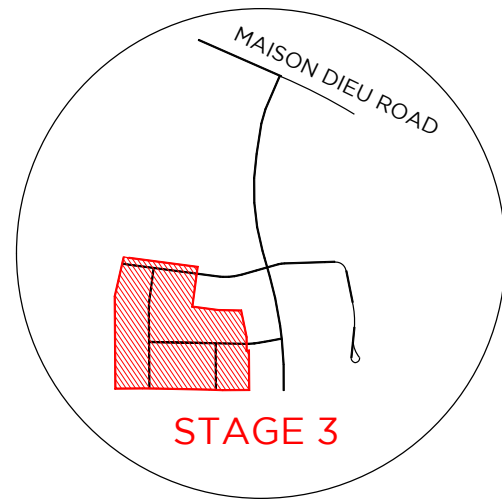
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## APPENDIX A      SALE PLAN

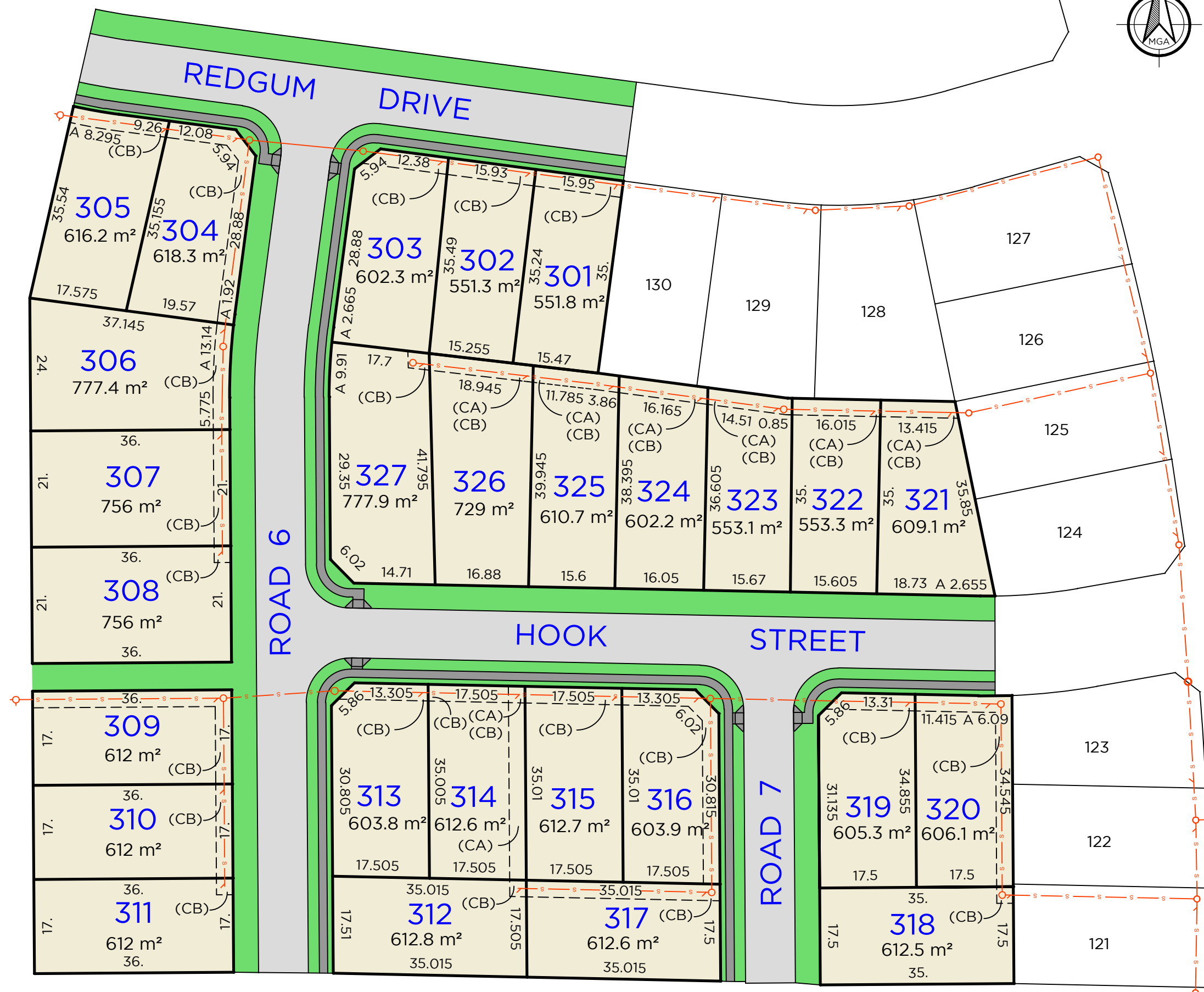


## LOCALITY PLAN

— s — s — s — PROPOSED SEWER LINE

(CA) EASEMENT TO DRAIN WATER 3 WIDE  
(CB) EASEMENT TO DRAIN SEWAGE VARIABLE WIDTH

(GENERAL RESTRICTIONS ON THE USE OF LAND  
EFFECTS ALL LOTS. ALL AREAS, DIMENSIONS &  
EASEMENTS ARE SUBJECT TO FINAL SURVEY)



## SALE PLAN FOR THE FAIRWAYS STAGE 3



## **APPENDIX B      SECT 7.5 PBP 2019 – ADDITIONAL BUILDING REQUIREMENTS**

### **7.5 Additional construction requirements**

To ensure the performance criteria for construction standards given in section 7.4 can be met, PBP and SGC additional measures over and above AS 3959 and NASH Standard as follows:

- construction measures for ember protection at BAL-12.5 and BAL-19 provided by AS 3959;
- construction measures for development in BAL-FZ; and
- requirements over and above the performance criteria contained within AS 1530.8.1 and AS 1530.8.2 apply in regards to flaming.

#### **7.5.1 Ember protection**

Based on the findings from the 2009 Victorian Bush Fires Royal Commission, PBP aims to maintain the safety levels previously provided by AS 3959:1999 in relation to ember protection at lower Bush Fire Attack Levels.

In particular, the areas addressed are in relation to:

- sarking;
- subfloor screening;
- floors;
- verandas, decks, steps, ramps and landings;
- timber support posts and beams; and
- fascias and bargeboards.

#### **7.5.2 NSW State Variations under G5.2(a) (i) and 3.10.5.0(c)(i) of the NCC**

Certain provisions of AS 3959 are varied in NSW based on the findings of the Victorian Bush Fires Royal Commission and bush fire industry research.

The following variations to AS 3959 apply in NSW for the purposes of NSW G5.2(a)(i) of Volume One and NSW 3.10.5.0(c)(i) of Volume Two of the NCC;

- clause 3.10 of AS 3959 is deleted and any sarking used for BAL-12.5, BAL-19, BAL-29 or BAL-40 shall:
  - be non-combustible; or
  - comply with AS/NZS 4200.1, be installed on the outside of the frame and have a flammability index of not more than 5 as determined by AS 1530.2; and
- clause 5.2 and 6.2 of AS 3959 is replaced by clause 7.2 of AS 3959, except that any wall enclosing the subfloor space need only comply with the wall requirements for the respective BAL; and
- clause 5.7 and 6.7 of AS 3959 is replaced by clause 7.7 of AS 3959, except that any wall enclosing the subfloor space need only comply with the wall requirements for the respective BAL; and
- fascias and bargeboards, in BAL-40, shall comply with:
  - clause 8.4.1(b) of AS 3959; or
  - clause 8.6.6 of AS 3959.



### 7.5.3 Construction in the flame zone

The flame zone is the area that has significant potential for sustained flame contact during a bush fire. The flame zone is determined by the calculated distance at which the radiant heat of the design fire exceeds 40kW/m<sup>2</sup>.

The NCC references AS 3959 and the NASH Standard. The NSW variation to the NCC excludes both AS 3959 and the NASH Standard as a Deemed to Satisfy solution for buildings that are required to be constructed to BAL-FZ as defined in AS 3959.

Although Chapter 9 of AS 3959 and the NASH Standard has not been adopted, they should still be used as a basis for a performance-based solution demonstrating compliance with the performance

requirements of the NCC and PBP for construction in the flame zone.

All flame zone developments should be sited and designed to minimise the risk of bush fire attack. Buildings should be designed and sited in accordance with appropriate siting and design principles to ensure the safest protection from bush fire impacts.

### 7.5.4 Flaming

Materials that allow flaming can be problematic and are not supported by the NSW RFS for the following reasons:

- flaming materials increase the exposure of other elements of construction and the adjoining structure to flame contact after a bush fire front has passed; and
- flaming materials will potentially increase the exposure of occupants of the building to radiant heat, direct flame contact, smoke after a bush fire front has passed.

This increase in exposure can contribute to the risk of loss of life and compromise the ability of residents to defend their property and egress from the building once the bush fire front has passed.

In addition, it can reduce the ability of occupants to make safe and effective decisions about their safety.

Where there is potential for materials of construction to ignite as a result of bush fire attack, the proposed building solution generally fails the construction performance criteria for residential infill development.

For development which may be subject to flame contact (BAL-40 and BAL-FZ), systems tested in accordance with AS 1530.8.1 and AS 1530.8.2 respectively will be considered, except that there is to be no flaming of the specimen except for:

- window frames that have passed the criteria of AS 1530.8.1 and AS 1530.8.2, may be approved provided their flaming is not considered to compromise the safety of other elements of the building; and
- use of other minor elements which allow flaming may be considered provided they do not compromise the integrity of the fire safety of the building (examples include address numbers, house names, decorative artwork, etc).

Flaming of other more significant elements of the building (such as aesthetic wall cladding) is considered to pose an unacceptable risk and will not be supported.