

BUSHFIRE HAZARD REPORT

EXTENSION TO AN EXISITING CLASS 1A BUILDING

285 SANDFLY ROAD, MARGATE

FOR

HEARTLANDS PHARMACIES PTY LTD

& BEACON PHARMACIES PTY LTD



PREPARED BY L BRIGHTMAN (BFP-164)

CERTIFIED BY N M CREESE (BFP-118)

8th July 2024

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ATTACHMENT 1 – Bushfire Hazard Management Plan

ATTACHMENT 2 - Form 55 Certificate

Disclaimer:

AS 3959:2018 cannot guarantee that a habitable building will survive a bushfire attack, however the implementation of the measures contained within AS 3959:2018, this report and accompanying plan will improve the likelihood of survival of the structure. This report and accompanying plan are based on the conditions prevailing at the time of assessment. No responsibility can be accepted to actions by the landowner, governmental or other agencies or other persons that compromise the effectiveness of this plan. The contents of this plan are based on the requirements of the legislation prevailing at the time of report.

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1. SUMMARY:

This Bushfire Hazard Report has been prepared to support the design, application for a building permit, and construction of an extension to an existing Class 1a building at 285 Sandfly Road, Margate. The site is subject to a Bushfire Prone Area Overlay under the under the relevant planning scheme and has been deemed to have the potential to be bushfire prone due to its proximity to the areas of bushfire prone vegetation surrounding the site.

This report identifies the protective features and controls that must be incorporated into the design and construction works to ensure compliance with the standards. Fire management solutions are defined in AS 3959:2018 Construction of Buildings in Bushfire-Prone Areas, Building Amendments (Bushfire-Prone Areas) Regulations 2014 (18th June 2014), National Construction Code 2022 (Volume 2) (NCC), Director's Determination, Requirements for Building in Bushfire-Prone Areas (transitional) (Version 2.2 6th February 2020) (Determination).

The proposed Class 1a building has been assessed as **BAL-19** under *Section 6* of *AS 3959:2018* and provided the appropriate construction standards are incorporated into the design, the new building works are capable of compliance with the provisions of *AS 3959:2018*. See Attachment 1 for construction summary.

Compliance with the following provisions of the *Directors Determination - Requirements for Building in Bushfire-Prone Areas* will be required:

- Part 4.1 Construction Requirements
- Part 4.2 Property Access
- Part 4.3 Water Supply for Firefighting
- Part 4.4 Hazard Management Areas

The effectiveness of the measures and recommendations detailed in this report and AS 3959:2018 is dependent on their implementation and maintenance for the life of the development or until the site characteristics that this assessment has been measured from alter from those identified. No Liability can be accepted for actions by lot owner, Council or Government agencies which compromise the effectiveness of this report.

This report has been prepared by Liam Brightman and certified by Nick Creese, principal of Lark & Creese Surveyors. Liam is accredited by the Tasmania Fire Service to prepare Bushfire Hazard Management Plans. Nick is a registered surveyor in Tasmania and is accredited by the Tasmanian Fire Service to prepare Bushfire Hazard Management Plans.

Site survey carried out on the 6th February 2024.

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2. LOCATION:

Property address: 285 Sandfly Road, Margate

Title owner: Heartlands Pharmacies Pty Ltd & Beacon Pharmacies Pty

Ltd

Title reference: C.T. 103586/2

PID N°: 7858261

Title area: 2.511 ha

Municipal area: Kingborough

Zoning: Rural Living



Image 1: Site location (Source The LIST)

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3. SITE DESCRIPTION:

The site is located within an existing rural area on Sandfly Road, approximately 2.7 km northwest of the intersection of Channel Highway and Sandfly Road, Margate. The site is located at an elevation of approximately 114 metres with grades falling to the south in the order of 10-15°.

At the time of assessment, the property was accessed via a Right of Way from Sandfly Road and the site included a dwelling, a visitor accommodation building, a studio, several sheds, a tennis court undergoing construction, and a dam. The vegetation within the site included lawn, vegetable garden, pasture, and areas of native trees and shrubs.

Immediately to the northwest was Sandfly Road and a vineyard. Sandfly Road included nature strips vegetated by native trees and shrubs and a bitumen carriageway. The vineyard included a dwelling, sheds, a cellar door, access, garden, vineyard, and an area of native trees and shrubs. Also adjacent to the northeastern corner of the property was a Tas Water owned water reservoir which included a large concrete tank, grassed area with native trees and shrubs along the southwestern and northwestern boundaries.

The allotments to the southeast appeared to have been developed for residential purposes. These allotments included dwellings, sheds, accesses, garden, areas of pasture, and areas of native trees and shrubs.

Southwest of the site were several relatively large rural allotments that appeared to be vacant undeveloped. These allotments were vegetated by areas of grass and extensive areas of native trees and shrubs.

Two allotments to the northwest appeared to have been developed for residential purposes. These allotments included dwellings, sheds, accesses, gardens, and were vegetated by native trees and shrubs.

Reticulated water supply is unavailable to the site with domestic water supply requirements reliant on on-site static water storage.

Planning controls are administered by the Kingborough Council under the *Kingborough Interim Planning Scheme 2015*. The site is zoned Rural Living.

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Image 2: Looking north towards development site.



Image 3: Looking east towards development site.

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4. PROPOSED DEVELOPMENT:

The proposal is for a two-story extension to an existing Class 1a building as shown in Image 4 as provided by the owner. Construction materials are to include Colorbond roofing, walls cladding to match the existing building, wooden framed windows to match existing building, and two doors.

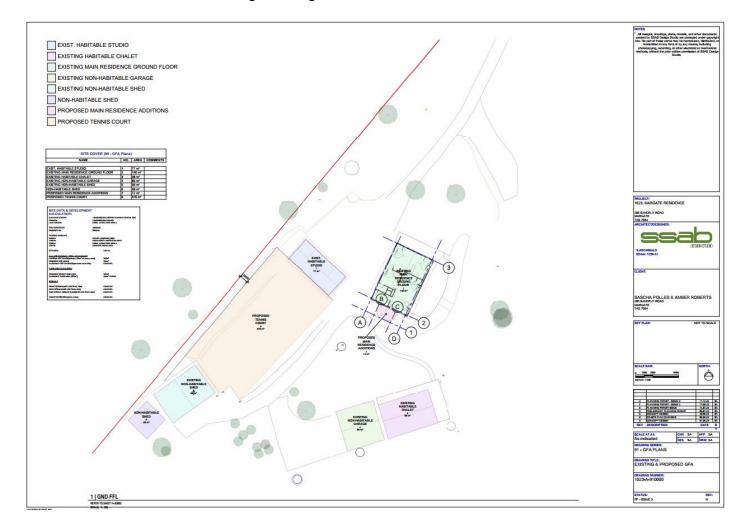


Image 4: Site plan.

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5. BUSHFIRE ATTACK LEVEL:

<u>Fire Danger Index</u> (FDI): The Fire Risk Rating for Tasmania is adopted as 50. Vegetation Classification:

Vegetation Assessment:

Following assessment of the characteristics of the site, the vegetation types, separation distances from development site and slope under the vegetation have been identified as shown in Table 1 below:

Direction:	Description:	Distance:	Slope:
Northeast:	Site:		
	garden	0-35	5-10° down
	 native trees & shrubs 	35-100	
Southeast:	Site:		
	garden	0-20	10-15° down
	• lawn	20-50	5-10° down
	Neighbouring allotment:		
	garden	50-100	
	pasture	60-100	
Southwest:	Site:		
	 garden, visitor accommodation, 	0-45	5-10° down
	sheds, access		
	 native trees & shrubs 	45-70	10-15° down
	pasture	70-100	5-10° down
Northwest:	Site:		
	 access, studio, garden 	0-23	Level
	Neighbouring allotment:		
	 native trees & shrubs 	23-100	10-15° up

Table 1: Site assessment.

NOTE: The vegetation identified in Table 1 has been assessed in consideration of *Table 2.3 and figures 2.4(A)-(H) AS 3959:2018* as follows.

At the time of assessment, the site included a dwelling, a visitor accommodation, a studio, several sheds, an access, garden, vegetable garden, lawn, areas of pasture and areas of eucalyptus with an understory of smaller trees and shrubs. The developed portion of the allotment has been classified as **Low Threat Vegetation** (LTV) in accordance with *Part 2.2.3.2 (e) & (f), AS 3959:2018*. The grass within the area of pasture was less than 100 mm in height possibly due to grazing by domesticated and native animals. It has been presumed that the grass may exceed 100 mm in height in the future and has been assessed in accordance with *Figure 2.4(H)* as *Sown Pasture G-26* resulting in a vegetation classification of **G:**

R



Grassland. The eucalyptus ranged in height from 10-25 metres in height with understory vegetation typically consisting of smaller trees and shrubs leading to an assessed foliage coverage of >30%. These areas of vegetation have been assessed in accordance with *Figure 2.4(B)* as *Open Forest A-03* resulting in a vegetation classification of **A: Forest**.

At the northeastern corner of the allotment was a Tas Water owned water reservoir that included a concrete water tank, a grassed area, and an area of eucalyptus along the southwestern and northwestern boundaries. The vegetation within this allotment appeared to be well maintained in a minimal fuel condition which has been classified as **Low Threat Vegetation** in accordance with *Part 2.2.3.2* (e) & (f), AS 3959:2018.

The neighbouring allotment to the southeast, that was within the assessable area, included a dwelling, sheds, garden, and an area of pasture. There was a line of pine trees along the adjacent boundary which have been assessed as being a windbreak. The developed portion of the property has been classified as **Low Threat Vegetation** in accordance with *Part 2.2.3.2 (e) & (f), AS 3959:2018*. The grass within the area of pasture was less than 100 mm in height possibly due to grazing by domesticated and native animals. It has been presumed that the grass may exceed 100 mm in height in the future and has been assessed in accordance with *Figure 2.4(H)* as *Sown Pasture G-26* resulting in a vegetation classification of **G: Grassland**.

The area of the neighbouring allotment that was within the assessable area was vegetated by eucalyptus, ranging from 15-20 metres in height, with a smaller trees and shrubs leading to an assessed foliage coverage of >30%. The vegetation has been assessed in accordance with *Figure 2.4(B)* as *Open Forest A-03* resulting in a vegetation classification of **A: Forest**.



Vegetation Classification:

In consideration of vegetation classifications under *Table 2.3* and *Figure 2.4*, *AS 3959:2018* and as detailed above, the predominant vegetation, separation distances from development site and slope under the classified vegetation is assessed as shown in Table 2 below:

Direction: Vegetation Type: Distance (m):		Effective slope:	Exclusions:	
Northeast:	LTV A: Forest	0-35 35-100	5-10° down	No
Southeast:	LTV	0-20 20-100	10-15° down 5-10° down	2.2.3.2 (e) & (f)
	G: Grassland	60-100		No
	LTV	0-45	5-10° down	2.2.3.2 (e) & (f)
Southwest:	A: Forest	45-70	10-15° down	No
	G: Grassland	70-100	5-10° down	No
Northwest:	LTV	0-23	Level	2.2.3.2 (e) & (f)
inorthwest.	A: Forest	23-100	10-15° up	No

Table 2: Assessed vegetation.





Image 5: Aerial image of assessed vegetation (Source The LIST).





Image 6: Predominant vegetation to the northeast of the site – A: Forest (LTV in foreground)



Image 7: Predominant vegetation to the southeast of the site – LTV

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Image 8: Predominant vegetation to the southwest of the site – A: Forest



Image 9: Predominant vegetation to the northwest of the site – A: Forest

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Bushfire Attack Level Assessment:

Based on the predominant vegetation detailed above, and the separation distances provided between the predominant vegetation and the development site, the BAL for each direction from the proposed dwelling has been determined from *Table 2.6, AS* 3959:2018 as follows:

Direction:	Northeast	Southeast	Southwest	Northwest
BAL	19	Low	19	19

In accordance with Part 1A, sub-clause 11E(2), Building Amendment Regulations 2014, an extension to a habitable building is subject to the following provisions: In respect to any additions or alterations to an existing building requiring a building permit -

- (a) the addition or alteration must not restrict any existing vehicular access to any part of the habitable building, or access to any existing water supply for firefighting; and
- (b) if the addition or alteration is -
 - (i) is 20m² gross floor area or less and does not result in the building being closer to bushfire prone vegetation, no special bushfire requirements apply to either the new building work, or the existing building; or
 - (ii) is greater than 20m2 gross floor area-
 - (A) the addition or alteration, existing building, and other buildings associated with the existing building must be provided with hazard management areas of dimensions no less than that for the BAL assessed for the addition or alteration; and
 - (B) where an existing water supply for firefighting is not available, a water supply for firefighting must be provided that meets the requirements in the Directors Determination; and
 - (C) where property access is not available, property access must be provided that meets the requirements in the Director's determination.

The proposal is for a two-story extension to an existing dwelling which will include a mud room on the lower floor and an office on the second floor. The area of the extension is approximately 30 m² and extends towards the bushfire-prone vegetation. As such the application of *Part (b)* above is warranted.

In accordance with *Clause 2.2.6(d) AS 3959:2018*, the highest BAL determined for the site is to be applied as the BAL for the whole of the site. As such, the bushfire attack level for each elevation has been assessed as:

BAL-19

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Direction	Northeast	Southeast	Southwest	Northwest		
Bushfire Attack Level		BAL-19				
Vegetation	LTV	LTV	LTV	LTV		
	A: Forest	G: Grassland	A: Forest G: Grassland	A: Forest		
Effective slope	5-10° down	10-15° down 5-10 ° down	5-10° down 10-15 ° down 5-10° down	Level 10-15° up		
HMA specified Table	N/A	N/A	N/A	N/A		
2.6	34-<46 m	13-<19 m	41-<56 m	23-<32 m		
			13-<19 m			
HMA required	34 m	13m	41 m	23 m		
HMA available	35 m to	60m to	45 m to	23 m to		
	classified	classified	classified	boundary.		
	vegetation.	vegetation.	vegetation.			

Table 3: Details the hazard management areas (HMA) required to comply with that BAL, and the area available for compliance.

Note: Although the classified vegetation to the south east (G:Grassland) is further away from the site than that required for BAL-12.5, and hence is assessed as BAL-LOW, this site has been assessed as being subject to this threat in order to constrain the hazard management area in that direction. Due to the extent of the HMA to the north east and south west and its impact on the HMA on the south east, the HMA exceeds the prescribed distance.



6. COMPLIANCE:

Building Regulations 2014:

Compliance with Part 1A – Bushfire-prone Areas the Building Regulations 2014 is achieved through the implementation of Director's Determination - Requirements for Building in Bushfire-Prone Areas (transitional) as follows:

Part 2 Application:

The Determination applies to a building located in a bushfire-prone area of the following Class:

- (a) Class 1;
- (b) Class 2;
- (c) Class 3;
- (d) Class 8;
- (e) Class 9; and
- (f) Class 10a that is closer than 6 metres to a habitable building.

The proposed development is an extension to an existing Class 1a building and as such the requirements of the *Determination* apply.



Part 3 Performance Requirements:

- (1) A building to which this Determination applies must, to the degree necessary, be:
 - (a) Designed and constructed to reduce the ignition from bushfire, appropriate to the:
 - (i) Potential for ignition caused by burning embers, radiant heat or flame generated by bushfire; and
 - (ii) Intensity of the bushfire attack on the building;
- (2) The Performance requirements specified in subclause (1)(a) is applicable to the following:
 - (a) a Class 1, 2 or 3 building; or
 - (b) a Class 10a building or deck associated with a Class 1, 2, or 3 building.

The requirements of *Part 3 Performance Requirements* have been satisfied by assessing the proposed development against the requirements of *Part 4 Deemed to Satisfy Requirements*.



Part 4 Deemed to Satisfy Requirements:

Part 4.1 Construction Requirements

- (1) Building work (including additions or alterations to an existing building) in a bushfire-prone area must be designed and constructed in accordance with an Acceptable Construction Manual determined by the BCA, being eighter:
 - (a) AS 3959:2018; or
- (b) NASH Standard Steel Framed Construction in Bushfire Areas as appropriate for BAL determined for that site.
- (2) Subclause (1)(a) is applicable to the following:
 - (a) a Class 1, 2, or 3 building; or
 - (b) a Class 10a building or deck associated with a Class 1, 2, or 3 building.
- (3) Subclause (1)(b) is applicable to the following:
 - (a) a Class 1 building; or
 - (b) a class 10a building or deck associated with a Class 1 building.
- (4) Despite subsection (1) above, variations from requirements specified in 1(a) and 1(b) are as specified in Table 4.1 below.
- (5) Despite subsection (1) and (4) above, performance requirements form buildings subject to BAL 40 or BAL FZ (BAL-FZ) are not satisfied by compliance with subsection (1) or (4) above.

Tab	le 4.1 Construction	Requirements and Construction Variations
	Element	Requirements
A.	Straw Bale Construction	May be used in exposures up to and including BAL 19.
B.	Shielding provisions under Section 3.5 of AS 3959:2018	To reduce construction requirements due to shielding, building plans must include suitable detailed elevations or plans that demonstrate that the requirements of Section 3.5 of the Standard can be met.
		Comment: Application of Section 3.5 of the Standard cannot result in an assessment of BAL-LOW.
C.	Construction standard for vulnerable use	Building work for a building classified as a vulnerable use must be constructed to a BAL that is determined in a BHMP certified by an accredited person.

APPLICATON:

- (1) The building has been assessed against the requirements of AS 3959:2018.
- (2) The proposal is for a Class 1a building and is therefore subject to this subsection.
- (3) The proposed Class 1a building has not been assessed against the NASH Standards and as such this subsection is not applicable.

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- (4) The proposed Class 1a building is not to be constructed with straw bales, does not the shielding provisions under *Part 3.5* or assessed as Vulnerable Use and as such this subsection is not applicable.
- (5) The proposed habitable building has not been assessed as BAL-40 or BAL-FZ and therefore this subsection is not applicable.

The proposal is for an extension to an existing Class 1a building and as such the requirements of *Part 4.1 Construction Requirements* apply.

All building works shall comply with the specification for **BAL-19** of *Section 3* and *Section 6* of *AS 3959:2018*. This includes the general provisions contained within *AS3959:2018* and the following sub-sections:

- 6.1 General provisions
- 6.2 Sub-floor supports
- 6.3 Floors
- 6.4 Walls
- 6.5 External glazed elements and assemblies and external doors
- 6.6 Roofs (including penetrations, eaves, fascias and gables, and gutters and downpipes)
- 6.7 Verandas, decks, steps and landings
- 6.8 Water and gas supply pipes



Part 4.2 Property Access

- (1) A new building constructed in a bushfire-prone area must be provided with property access to the building area and the firefighting water point, accessible by a carriageway, designed and constructed as specified in subsection (4) below.
- (2) For an addition or alteration to an existing building in a bushfire-prone area referred to in regulation 11E(2)(b)(ii)(C) of the Building Regulations 2014, property access must be provided to the building area and the firefighting water point accessible by a carriageway designed and constructed as specified in subsection (4) below.
- (3) For an addition or alteration to an existing building in a bushfire-prone area which is 20 metres squired gross floor area or less which does result in the building being closer to bushfire-prone vegetation and there is no property access available, property access must be provided to the building area and the firefighting water point accessible by a carriageway designed and constructed as specified in subsection (4) below.
- (4) Vehicular access from a public road to the building must:
 - (a) Meet the property access requirements described in Table 4.2;
 - (b) Include access from a public road to within 90 metres of the furthest part of the building measured as a hose lay; and
 - (c) Include access to the hardstand area for the firefighting water point.

APPLICATION:

- (1) The proposed development is for an extension to an existing Class 1a building as such this subsection is not applicable.
- (2) This bushfire hazard report refers to the construction of an extension to an existing Class 1a building and as such this subsection is applicable.
- (3) This bushfire hazard report refers to the construction of an extension to an existing Class 1a building that is greater than 20 m² in area, as such this subsection is not applicable.
- (4) The constructed access is to be located to provide access to the site, turning area and the firefighting water point within 90 m of the furthest point of the building to be protected in compliance with *Table 4.2*, the *Determination*.



The existing access to the site has been measured as being 180 metres in length and is required for access to a firefighting water point and as such the requirements of *Element B, Table 4.2, Director's Determination - Requirements for Building in Bushfire-Prone Areas (transitional)* below apply.

Ta	Table 4.2 Standards for Property Access		
	Element	Requirement	
В	Element Property access length is 30 metres or greater; or access is for a fire appliance to a firefighting water point.	The following design and construction requirements apply to property access: (a) All-weather construction;	
		(ii) A property access encircling the building; or	
		(iii) A hammerhead "T" or "Y" turning head 4 metres wide and 8 metres	
		long.	

Where necessary, the existing access is to be upgraded to comply with Table 4.2.



Part 4.3 Water Supply for firefighting

- (1) A new building constructed in a bushfire-prone area must be provided with a water supply dedicated for firefighting purposes as specified in subsections (4) and (5) below.
- (2) For an addition or alteration to an existing building in a bushfire-prone area referred to in regulation 11E(2)(b)(ii)(B) of the Building Regulations 2014, a water supply for firefighting must be provided as specified in subsections (4) and (5) below.
- (3) For an addition or alteration to an existing building in a bushfire-prone area which is 20 metres squared gross floor area or less which does result in the building being closer to bushfire-prone vegetation and there is no water supply for firefighting available, a water supply for firefighting must be provided as specified in subsection (4) and (5) below.
- (4) Water supplies for firefighting must meet the requirements described in Tables 4.3A or 4.3B.
- (5) The water supply must be:
 - (a) Provided from a fire hydrant or static water supply;
 - (b) Located within the specified distance from the building to be protected; and
 - (c) Provided with a hardstand and suitable connections.

APPLICATION:

- (1) The proposal is for an extension to an existing Class 1a building, as such this subsection is not applicable.
- (2) This bushfire hazard assessment refers to the construction of an extension to an existing Class 1a building as such this subsection is applicable.
- (3) This bushfire hazard assessment refers to the construction of an extension to an existing Class 1a building greater than 20 m² in area, as such this subsection is not applicable.
- (4) A minimum of 10,000 litre static water supply, with associated fitting and hardstand area are to be installed to comply with *Table 4.3B*.
- (5) The provision of a minimum static water supply of 10,000 litres must be installed with associated connections and hardstand area with a 90 metre hoselay of the furthest point of the building to be protected in compliance with *Table 4.3B*.



As there is no reticulated water supply available to the site, a static water supply of minimum capacity 10,000 litres is to be installed on the site and must be accessible at all times by fire service vehicles in compliance with *Table 4.3B, Director's Determination - Requirements for Building in Bushfire-Prone Areas (transitional) below.*

Tal	ble 4.3B Static Wate	r Supply for Firefighting		
	Element	Requirement		
Α	Distance between	The following requirements apply:		
	building area to be			
	protected and	(a) The building area to be protected must be located within 90 metres of the		
	water supply	firefighting water point of a static water supply; and		
		(b) The distance must be measured as a hose lay, between the firefighting		
_	0(-('-14/-(water point and the furthest part of the building area.		
В	Static Water	A static water supply:		
	Supplies	(a) May have a remetaly located affects connected to the static water symply:		
		(a) May have a remotely located offtake connected to the static water supply;(b) May be a supply for combined use (firefighting and other uses) but the specified minimum quantity of firefighting water must be available at all times;		
		(c) Must be a minimum of 10,000 litres per building area to be protected. This volume of water must not be used for any other purpose including firefighting sprinkler or spay systems;		
		(d) Must be metal, concrete or lagged by non-combustible materials if above ground; and		
		(e) If a tank can be located so it is shielded in all directions in compliance with Section 3.5 of AS 3959:2018, the tank may be constructed of any material provided that the lowest 400 mm of the tank exterior is protected by: (i) metal;		
		(ii) non-combustible material; or		
		(iii) fibre-cement a minimum of 6 mm thickness.		
С	Fittings, pipework and accessories	Fittings and pipework associated with a fire fighting water point for a static water supply must:		
	(including stands	water supply must.		
	and tank supports)	(a) Have a minimum nominal internal diameter of 50 mm:		
		(b) Be fitted with a valve with a minimum nominal internal diameter of 50 mm;		
		(c) Be metal or lagged by non-combustible materials if above ground;		
		(d) Where buried, have a minimum depth of 300 mm;		
		(e) Provided a DIN or NEN standard forged Storz 65 mm coupling fitted with a		
		suction washer for connection to firefighting equipment;		
		(f) Ensure the coupling is accessible and available for connection at all times; (g) Ensure the coupling is fitted with a blank cap and securing chain (minimum		
		of 220 mm length);		
		(h) Ensure underground tanks have either an opening at the top of not less than 250 mm diameter or a coupling compliant with this Table; and		
		(i) Where remote offtake is installed, ensure the offtake is in a position that is:		

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		(i) Visible;
		(ii) Accessible to allow connection by firefighting equipment;
		(iii) At a working height of 450 - 600 mm above ground level; and
		(iv) Protected from possible damage, including damage by vehicles.
D	Signage for static	The firefighting water point for a static water supply must be identified by a
	water connections	sign permanently fixed to the exterior of the assembly in a visible location.
		The sign must:
		(a) comply with water tank signage requirements within AS 2304:2019; or
		(b) comply with the Tasmania Fire Service Water Supply Signage Guidelines
		published by the Tasmania Fire Service.
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E	Hardstand	A hardstand area for fire appliances must be provided:
		(a) No more than three metres from the firefighting water point, measured as
		a hose lay (including the minimum water level in dams, swimming pools
		and the like);
		(b) No closer than six metres from the building area to be protected;
		(c) With a minimum width of three metres constructed to the same standard
		as the carriageway; and
		(d) Connected to the property access by a carriageway equivalent to the
		standard of the property access.
	•	

NOTE: At the time of assessment, there was no static water supply suitable for firefighting identified. A static water supply for firefighting purposes will need to be installed in accordance with *Table 4.3B Static Water Supply for Firefighting*.



Part 4.4 Hazard Management Areas:

- (1) A new building constructed in a bushfire-prone area must be provided with a HMA of sufficient dimensions and which provides an area around the building which separated the building from the bushfire hazard and complies with subsection (4), (5) and (6) below.
- (2) For an addition or alteration to an existing building in a bushfire-prone referred to in regulation 11E(2)(b)(ii)(A) of the Building Regulations 2014, the building must be provided with a HMA of sufficient dimensions and which provided an area around the building which separated the building from the bushfire hazard and complies with subsections (4), (5) and (6) below.
- (3) For an addition or alteration to an existing building in a bushfire-prone area which is 20 metres squared gross floor area or less which does result in the building being closer to bushfire-prone vegetation it must be provided with a HMA of sufficient dimensions and which provides an area around the building which separated the building from the bushfire hazard and complies with subsection (4), (5) and (6) below.
- (4) The HMA must comply with Table 4.4; and
- (5) The HMA for a particular BAL must have the minimum dimensions required for the separation distances specified for that BAL in Table 2.6 of AS 3959:2018; and
- (6) The HMA must be established such that fuels are reduced sufficiently, and other hazards are removed such that the fuels and other hazards do not significantly contribute to the bushfire attack.

APPLICATION:

- (1) The proposal is for the construction of an extension to an existing Class 1a building. This subsection is not applicable.
- (2) The proposal is for the construction of an extension to an existing Class 1a building and must be provided with a HMA compliant with (4), (5), and (6).
- (3) The proposal is for the construction of an extension to an existing Class 1a building that is greater than 20 m² in area. This subsection is not applicable.
- (4) The HMA for the proposed development has been designed to satisfy the requirements of *Table 4.4* the *Determination*.
- (5) The distances for the HMA, for the proposed development, have been calculated using the distances specified within *Table 2.6* of *AS 3959:2018*.
- (6) The HMA must be maintained in a minimal fuel condition by the owner(s) of the property into perpetuity to reduce the risk of bushfire attack.



This assessment and accompanying Bushfire Hazard Management Plan details the extent of the Hazard Management Area (HMA) which is of sufficient dimensions to accord with *Element B, Table 4.4*, *Director's Determination - Requirements for Building in Bushfire-Prone Areas (transitional)* below. The dimensions of the HMA are to be in accordance with *Table 2.6*, *AS 3959:2018* and is to be maintained in a reduced fuel condition into perpetuity.

Tab	Table 4.4 Requirements for Hazard Management Areas		
	Element	Requirement	
В	Hazard management areas for new	A new building must:	
	buildings on lots not provided with a BAL at the time of	Be located on the lot so as to be provided with a HMA no smaller than the separation distances required for BAL 29; and Have an HMA established in accordance with a certified bushfire hazard	
	subdivision	management plan.	

The hazard management area assessed for this site is to comply with the separation distances as determined for **BAL-19** in *Table 2.6, AS3959:2018*, and must established and maintained in a reduced fuel condition to the minimum distance as specified in Table 4 below:

Maintenance Requ	Maintenance Requirements of the Hazard Management Area			
Direction	Northeast	Southeast	Southwest	Northwest
HMA required	34 metres	13 metres	41 metres	23 metres/ Boundary
HMA establishment recommendations	 patios, drivewa Locating dams on the bushfire Providing heat dwelling such shrubs and sm Store flammab are stored awa Replace highly Tasmanian Fir Fire resisting g Trim lower bra ground level. Trees are not to roof. 	s, orchards, vegetable prone side of the less shields and ember as non-flammable finall tress, ble materials such a gy from the dwelling of flammable vegetate Service web site	ole garden, effluent building. trap on the bushfir encing, hedges, se is wood piles, fuels it. tion with low flamm (www.fire.tas.gov.a rees to a minimum elling so that veget	disposal areas etc e prone side of the parated garden and rubbish heaps ability species. See (u) publications - of 2 metres above ation falls onto the

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Ongoing
Management
practices

- Slash or mow grasses to less than 100 mm.
- Remove dead and fallen vegetation including branches, bark and leaves regularly.
- Trim any regrowth branches of retained trees within HMA that overhang building or are less than 2m above ground level.



7. CONCLUSIONS & RECOMMENDATIONS:

This Bushfire Hazard Report and Bushfire Hazard Management Plan have been prepared to support the design, application for a building permit, and construction of an extension to an existing Class 1a building. The report has reviewed the bushfire risks associated with the site and determined the fire management strategies that must be carried out to ensure the development on the site is at a reduced risk from bushfire attack. Provided the elements detailed in this report are implemented, the development on the site is capable of compliance with *AS 3959:2018* and any potential bushfire risk to the site is reduced.

The new building works must comply with the requirements for **BAL-19** of *AS* 3959:2018 as specified in Table 3 and Part 6 of this report. The Council approval issued for the building works should contain conditions requiring that the protective elements defined in this report and *AS* 3959:2018 are implemented during the construction phase and maintained by the lot owner for the life of the structure.

- Property access is to comply with Part 4.2, the Determination.
 - The driveway must comply with *Elements B, Table 4.2*, the *Determination* prior to the issuing of the Certificate of Occupancy.
- The water supply for firefighting purposes is to comply with Part 4.3, the Determination.
 - A static water supply must be provided in compliance with *Table 4.3B*, the Determination prior to the issuing of the Certificate of Occupancy.
- The Hazard Management Area is to comply with Part 4.4, the Determination
 - The Hazard Management Area must comply with *Element B, Table 4.4*, the *Determination* and must be established in a minimal fuel condition prior to the issuing of the Certificate of Occupancy.

See section 6 of this report for further details.

Any works required by this report must be completed prior to the issuing of the Certificate of Occupancy.

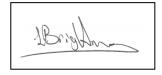
Although not mandatory, any increase in the construction standards above the assessed Bushfire Attack Level will afford improved protection from bushfire and this should be considered by the owner, designer and/or the builder prior to construction commencing. Hazard Management Areas must be established and maintained in a minimal fuel condition in accordance with this plan and the TFS guidelines. It is the owner's responsibility to ensure the long-term maintenance of the Hazard Management Areas in accordance with the requirements of this report.

This Report does not recommend or endorse the removal of any vegetation within or adjoining the site for the purposes of bushfire protection without the explicit approval of the local authority.

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L Brightman Bushfire Hazard Practitioner BFP-164 Scope 1, 2, 3a and 3b



N M Creese Bushfire Hazard Practitioner BFP-118 Scope 1, 2, 3a, 3b and 3c





8. REFERENCES:

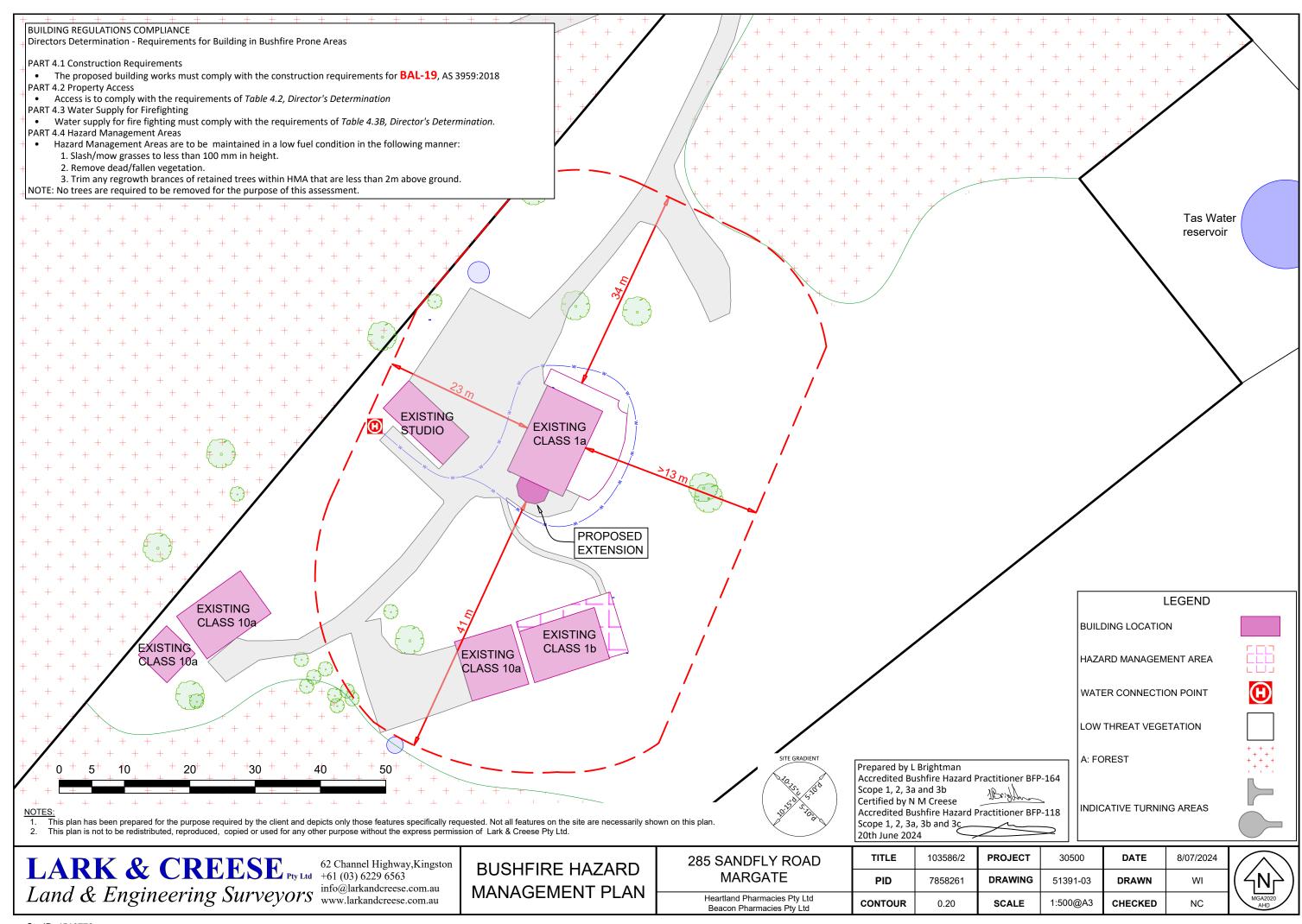
- AS 3959:2018 Construction of Building in Bushfire-Prone Areas.
- Building Amendments (Bushfire-Prone Areas) Regulations 2014 (18th June 2014).
- National Construction Code 2022 (Volume 2).
- Director's Determination Requirements for Building in Bushfire-Prone Areas (transitional) (Version 2.2, 6th February 2020).
- The LIST Department of Primary Industry Parks Water & Environment.



9. GLOSSARY

AS 3959:2018	Australian Standards AS 3959:2018 Construction of buildings in bushfire-prone areas.
BAL (Bushfire Attack Level)	A means of measuring the severity of a building's potential exposure to ember attack, radiant heat, and direct flame contact, using increments of radiant heat expressed in kilowatts per metre squared, and the basis for establishing the requirements for construction to improve protection of building elements from attack by bushfire. The following BAL levels, based on heat flux exposure threshold are used within AS3959:2018; BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40, BAL-FZ.
Bushfire	An unplanned fire burning vegetation.
Bushfire Hazard Management Plan	A plan showing means of protection from bushfire in a form approved in writing by the Chief Officer.
Bushfire-Prone Area	An area that is subject to, or likely to be subject to, bushfire attack. Land that has been designated under legislation; or Has been identified under environmental planning instrument, development control plan or while processing and determining a development application.
Carriageway (also vehicular access)	The section of the road formation, which is used by traffic, and includes all the area of the traffic lane pavement together with the formed shoulder.
Class 1a, 1b, 2, 3, 4, 5, 6, 7, 8, 9a, 9b, 9c, 10a, 10b & 10c buildings	A system of classifying buildings of similar uses and functions to facilitate a referencing system within the National Construction Code.
Classified vegetation	Vegetation that has been classified in accordance with Clause 2.2.3 of AS3959:2018.
Distance to	The distance between the building or building area to the classified vegetation.
FDI (Fire Danger Index)	The chance of a fire starting, its rate of spread, its intensity, and the difficulty of its suppression, according to various combinations of air temperature, relative humidity, wind speed and both long- and short-term drought effects.
Firefighting water point	The point where a fire appliance can connect to a water supply for firefighting purposes. This includes a coupling in the case of a fire hydrant, offtake or outlet, or the minimum water level in the case of a static water body (including a dam, lake, or pool).
Hazard Management Area	The area between a habitable building or building area and bushfire-prone vegetation, which provides access to a fire front for fire fighting, which is maintained in a minimal fuel condition and in which there are no other hazards present which will significantly contribute to the spread of a bushfire.
Hose lay	The distance between two points established by a fire hose laid out on the ground, inclusive of obstructions.
Predominant vegetation	The vegetation that poses the greatest bushfire threat to the development site.
Slope Effective slope	The slope of the ground under the classified vegetation. The calculated slope under the classified vegetation considering variations in the topography.
Water supply - Reticulated (Fire hydrant)	An assembly installed on a branch from a water pipeline, which provides a valved outlet to permit a supply of water to be taken from the pipeline for fire fighting.
Water supply - Static	Water stored on a tank, swimming pool, dam, or lake, that is always available for firefighting purposes.

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CERTIFICATE OF QUALIFIED PERSON – ASSESSABLE ITEM

Section 321

То:	HEARTLANDS PHARMACIES PTY LTD & BEACON PHARMACIES PTY LTD		Owner /Agent	Forn	55		
	PO BOX 3	PO BOX 3		Address			
	MARGATE, TAS	70	54	Suburb/postcod	,		
Qualified person details:							
Qualified person:	NICK CREESE						
Address:	PO BOX 136			Phone No:	03 62	229 6563	
	KINGSTON TAS 7051			Fax No:			
Licence No:	BFP-118 Email address	larkandcrees	e.com	n.au			
Qualifications and Insurance details:	Director			iption from Column 3 of the or's Determination - Certificates alified Persons for Assessable			
Speciality area of expertise:	Directo			iption from Column 4 of the or's Determination - Certificates alified Persons for Assessable			
Details of work	(:						
Address:	285 SANDFLY ROAD				Lot No:	2	
	MARGATE, TAS 7054		54	Certificate of	title No:	103586/2	
The assessable item related to this certificate:	Bushfire Attack Level (BAL)			(description of the assessable item being certified) Assessable item includes – - a material; - a design - a form of construction - a document - testing of a component, building system or plumbing system - an inspection, or assessment, performed			
Certificate details:							
Certificate type:			Schedule Determin	tion from Column 1 of le 1 of the Director's nation - Certificates by d Persons for Assessable			
This certificate is in relation to the above assessable item, at any stage, as part of - (tick one) building work, plumbing work or plumbing installation or demolition work: or a building, temporary structure or plumbing installation:							

In issuing this certificate the following matters are relevant -

Documents:

- Bushfire Hazard Report 51791-03 dated 8th July 2024.
- Bushfire Hazard Management Plan 51791-03 dated 8th July 2024.

Relevant calculations:

See Bushfire Hazard Report 51791-03 dated 8th July 2024.

References:

- AS 3959:2018 Construction of Buildings in Bushfire Prone Areas
- Building Regulations 2014
- National Construction Code 2019 Building Code Australia (Volume 2)
- Director of Building Control Determination, Requirements for Building in Bushfire-Prone Areas (Version 2.2, 6th February 2020)

Substance of Certificate: (what it is that is being certified)

1. Assessment of bushfire attack level (BAL) of **BAL-19** for the proposed building works on the site in accordance with AS 3959:2018.

Scope and/or Limitations

Scope

This report was commissioned to identify the bushfire risk and subsequent Bushfire Attack Level (BAL) associated with the proposed buildings on the site. All advice, construction standards and measures are in compliance with AS 3959:2018, Construction of buildings in bushfire-prone areas, Building Regulations 2014 & National Construction Code 2019.

Limitations

The inspection has been undertaken and report provided on the understanding that;-

- 1. The report only deals with the potential bushfire risk. All other statutory assessments are outside the scope of this report.
- 2. This assessment is based on the site conditions present at the time of assessment only. No responsibility can be accepted for actions by the land owners, Council, governmental agencies, or any other persons that may compromise the effectiveness of this report.
- 3. Impacts of future development and vegetation growth have not been considered for the purpose of this assessment.
- 4. This report and AS 3959:2018 cannot guarantee that a dwelling will survive a bushfire, however the implementation of the measures contained within AS 3959:2018 and this report will improve the likelihood of survival of the structure in the event of bushfire attack.

I certify the matters described in this certificate.

Qualified person:

Certificate No: 51791-03

Date: 8/07/2024

Director of Building Control – Date Approved 1 July 2017