

Concept Fire Design Requirements for FENZ Vehicle Access

Advice in accordance with Acceptable Solution C/AS2.

Residential Standalone and Duplexes Villas (considers no fire sprinkler coverage)

Each household unit is to be provided with FENZ vehicle hardstanding within 75 m hose run distance to the furthest point of the unit, and within 20 m of a Firefighting water supply (see next page for water supply requirements)

FENZ vehicle hardstanding is to:

- Be able to withstand a laden weight of up to 25 tonnes with an axle load of 8 tonnes or have a load-bearing capacity of no less than the public roadway serving the property, whichever is the lower, and,
- Be trafficable in all weather, and,
- Provide a clear passageway of no less than 3.5 m in width and 4.0 m in height at site entrances, internal entrances and between buildings, and,

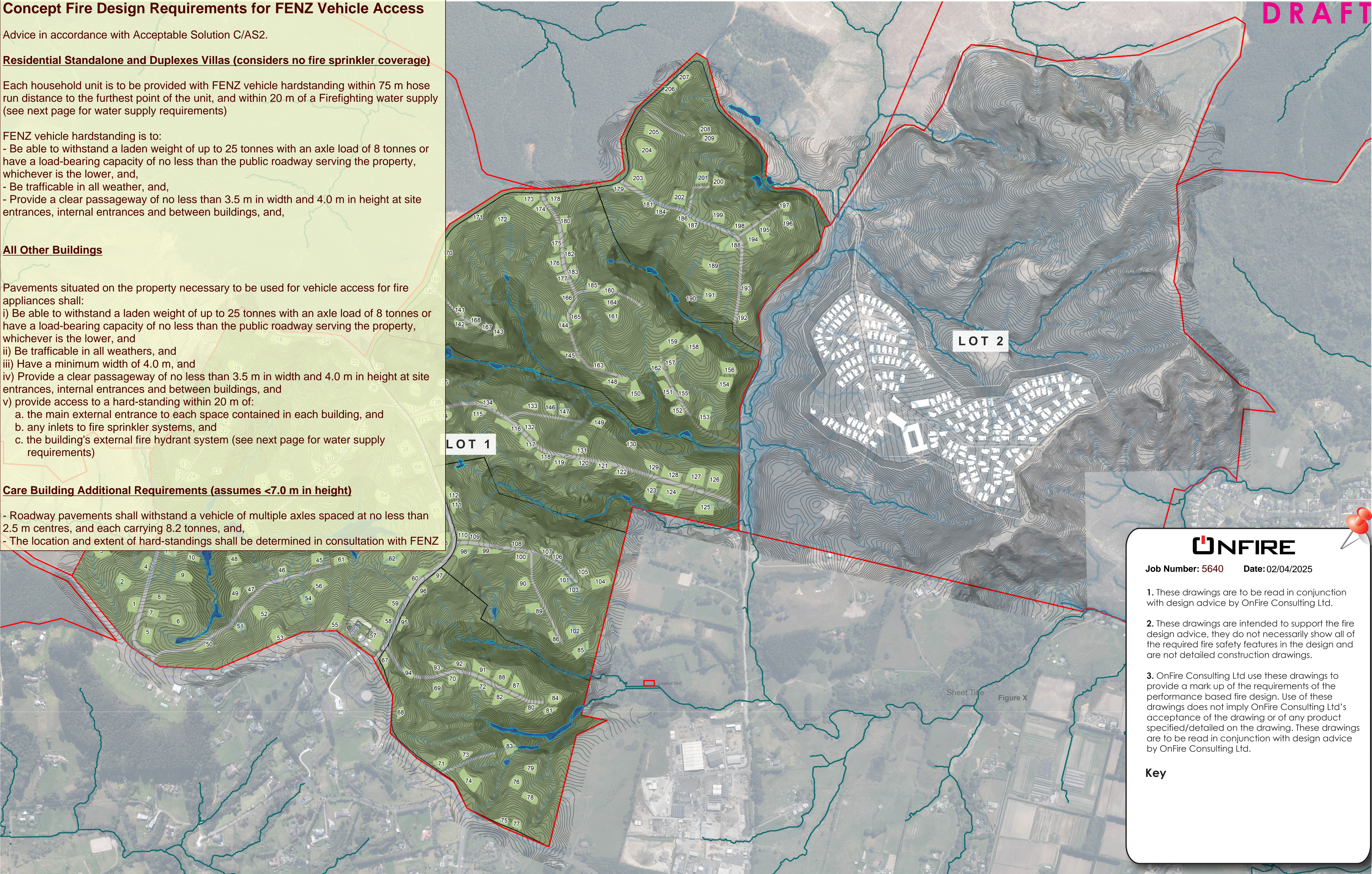
All Other Buildings

Pavements situated on the property necessary to be used for vehicle access for fire appliances shall:

- i) Be able to withstand a laden weight of up to 25 tonnes with an axle load of 8 tonnes or have a load-bearing capacity of no less than the public roadway serving the property, whichever is the lower, and
- ii) Be trafficable in all weathers, and
- iii) Have a minimum width of 4.0 m, and
- iv) Provide a clear passageway of no less than 3.5 m in width and 4.0 m in height at site entrances, internal entrances and between buildings, and
- v) provide access to a hard-standing within 20 m of:
  - a. the main external entrance to each space contained in each building, and
  - b. any inlets to fire sprinkler systems, and
  - c. the building's external fire hydrant system (see next page for water supply requirements)

Care Building Additional Requirements (assumes <7.0 m in height)

- Roadway pavements shall withstand a vehicle of multiple axles spaced at no less than 2.5 m centres, and each carrying 8.2 tonnes, and,
- The location and extent of hard-standings shall be determined in consultation with FENZ

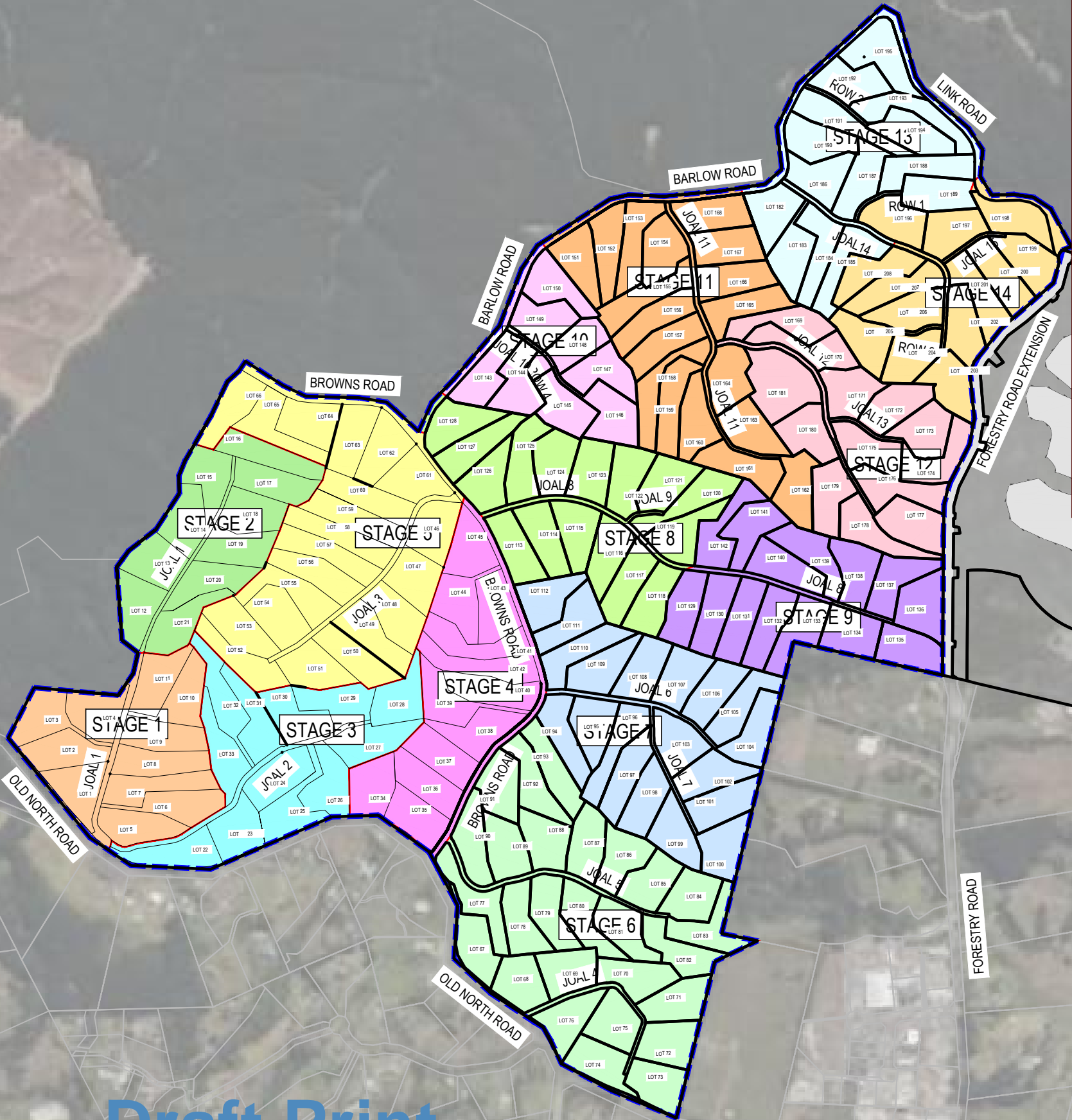


Job Number: 5640 Date: 02/04/2025

1. These drawings are to be read in conjunction with design advice by OnFire Consulting Ltd.
2. These drawings are intended to support the fire design advice, they do not necessarily show all of the required fire safety features in the design and are not detailed construction drawings.
3. OnFire Consulting Ltd use these drawings to provide a mark up of the requirements of the performance based fire design. Use of these drawings does not imply OnFire Consulting Ltd's acceptance of the drawing or of any product specified/detailed on the drawing. These drawings are to be read in conjunction with design advice by OnFire Consulting Ltd.

Key





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RESOURCE CONSENT

## Concept Fire Design Requirements for FENZ Vehicle Access

Advice in accordance with Acceptable Solution C/AS1 (for residential) and C/AS2 (for community facility).

### Residential Standalone and Duplexes (considers no fire sprinkler coverage)

Each household unit is to be provided with FENZ vehicle hardstanding within 75 m hose run distance to the furthest point of the unit.

FENZ vehicle hardstanding is to:

- Be able to withstand a laden weight of up to 25 tonnes with an axle load of 8 tonnes or have a load-bearing capacity of no less than the public roadway serving the property, whichever is the lower, and,
- Be trafficable in all weather, and,
- Provide a clear passageway of no less than 3.5 m in width and 4.0 m in height at site entrances, internal entrances and between buildings, and,

### Community Facilities

Pavements situated on the property necessary to be used for vehicle access for fire appliances shall:

- Be able to withstand a laden weight of up to 25 tonnes with an axle load of 8 tonnes or have a load-bearing capacity of no less than the public roadway serving the property, whichever is the lower, and
- Be trafficable in all weathers, and
- Have a minimum width of 4.0 m, and
- Provide a clear passageway of no less than 3.5 m in width and 4.0 m in height at site entrances, internal entrances and between buildings, and
- provide access to a hard-standing within 20 m of:
  - the main external entrance to each space contained in each building, and
  - any inlets to fire sprinkler systems, and
  - the building's external fire hydrant system (see next page for water supply requirements)

#### NOTES

- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
- COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000.
- BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

#### LEGEND

EX BDY	PR BDY
STAGE BDY	EX EASEMENT
PR EASEMENT	PROP EXTENT WORK
STAGE 1	STAGE 2
STAGE 3	STAGE 4
STAGE 5	STAGE 6
STAGE 7	STAGE 8
STAGE 9	STAGE 10
STAGE 11	STAGE 12
STAGE 13	STAGE 14
PROPOSED RETIREMENT VILLAGE	

A	RESOURCE CONSENT	MA	02/2025
Rev	Description	By	Date
	By	Date	
Survey	LANDPRO	03/2023	
Design	MA	03/2025	
Drawn	MA	02/2025	
Checked	RW/KH	03/2025	



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Key



Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOO PUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**PROPOSED  
DEVELOPMENT  
OVERVIEW - STAGES**

Project no.	147007
Scale	1:10,000 @ A3
Cad file	147007-M-C100 DEVELOPMENT.DWG
Drawing no.	C100
Rev	A



Concept Fire Design Requirements for Firefighting Water Supply

Advice in accordance with SNZPAS 4509:2008.

Both proposed Lots 1 and 2 are considered remote from public fire hydrants. All buildings on site are considered single storey

For Lot 2

Residential Standalone and Duplexes Villas (considers no fire sprinkler coverage)

Fire Water Classification FW2  
Consider reservoirs or tank supply (not reticulated external fire hydrant systems) are to be provided on site for residential villas  
Each household unit shall have access to 45,000 litres of firefighting water within 90 m.  
We are currently in consultation with FENZ to reduce the required water throughout the subdivisions to:  
20,000l of firefighting water for units of greater than 200m<sup>2</sup> and  
10,000l of firefighting water for units of up to than 200m<sup>2</sup>

Garden Pavilion (considers fire sprinkler coverage)

Floor area 200 m<sup>2</sup>. Fire Water Classification FW2  
Considers reservoir or tank supply (not reticulated external fire hydrant systems) are to be provided on site  
Garden Pavilion shall have access to 45,000 litres of firefighting water within 90 m. If sprinkler protected the same requirement as Care Building below.

Amenity Building (considers fire sprinkler coverage)

Floor area of largest firecell 1100 m<sup>2</sup>. Fire Water Classification FW2  
Considers reservoir (not reticulated external fire hydrant systems) are to be provided on site  
Amenity Building shall have access to 45,000 litres of firefighting water within 90 m. If sprinkler protected the same requirement as Care Building below.

Care Building (considered sprinklered as required by the NZBC)

Fire Water Classification FW2  
Considers reservoirs (not reticulated external fire hydrant systems) are to be provided on site  
Care Building shall have access to 45,000 litres of firefighting water within 90 m

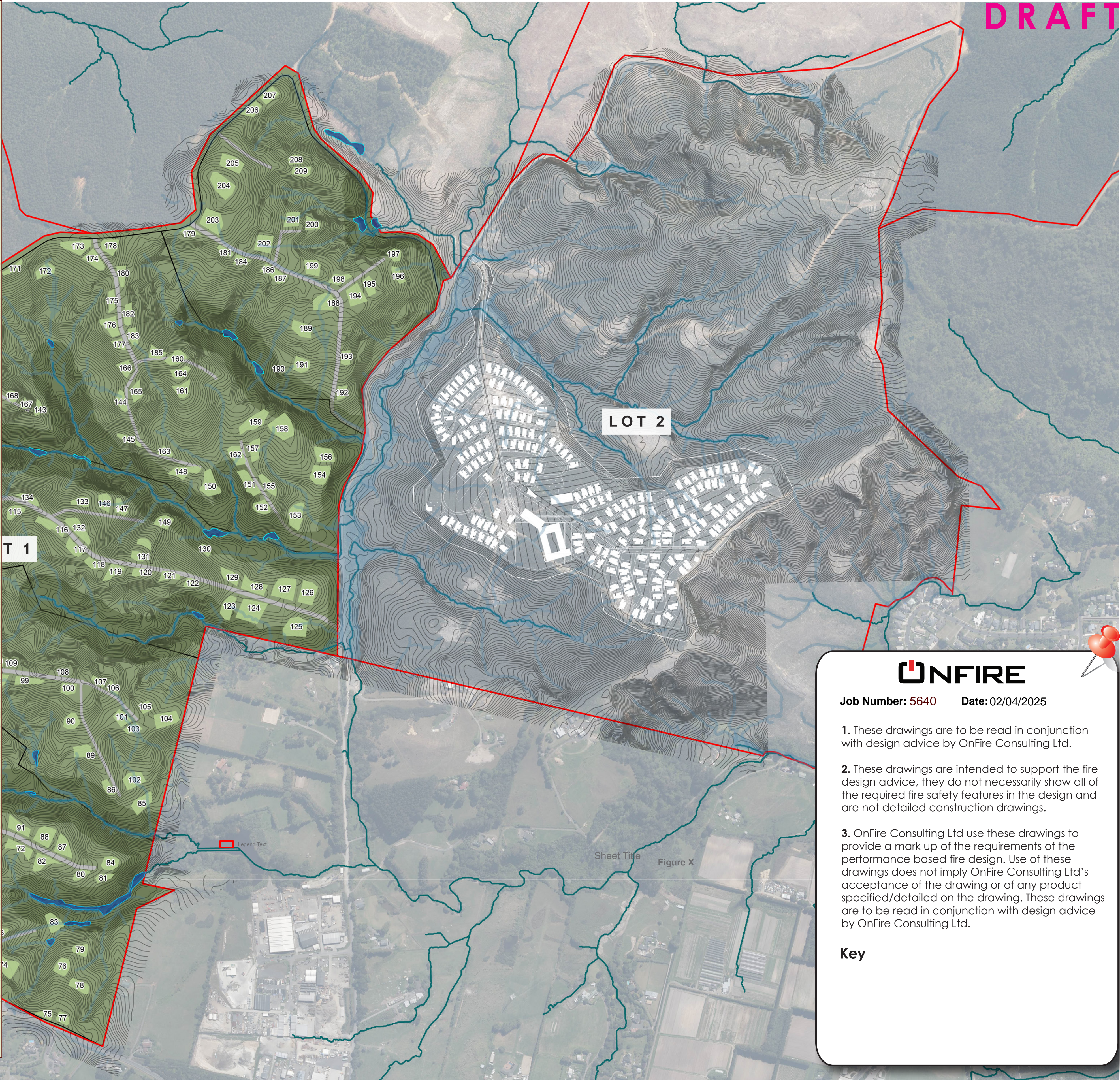
Note that NZS4541:2020 will require additional stored water to provide the required supply for the sprinkler systems.

Wellbeing Centre (considers no fire sprinkler coverage)

Floor area 900 m<sup>2</sup>. Fire Water Classification FW4  
Considers reservoir (not reticulated external fire hydrant systems) is to be provided on site  
Wellbeing Centre shall have access to 540,000 litres of firefighting water within 90 m. If sprinkler protected the same requirement as Care Building above.

Notes:

- Reservoirs refers to any standing water supply (such as tanks, swimming pools, ponds) provided there is FENZ access in accordance with SNZPAS 4509 Reservoir volumes may account for serving the largest firecell/building only at any given time
- FENZ vehicle access to reservoirs are to meet the requirements on the previous page, except that 20 tonne loading (as opposed to 25 tonne) may be used.
- Hard standing is to be provided within 5 m of reservoir outlet when lower than hard standing, and within 25 m or reservoir when higher than hard standing
- Tank reservoirs must be automatically topped up, and be capable of manual refilling
- Reservoirs must be proven reliable and accessible at all times
- Maximum practicle lift of water to Fire Service Pumps is 7.5 m
- Static water pumps may be required for serving larger firecells/buildings to achieve required L/min water delivery
- Chemically and/or biologically contaminated sources are not acceptable



Job Number: 5640 Date: 02/04/2025

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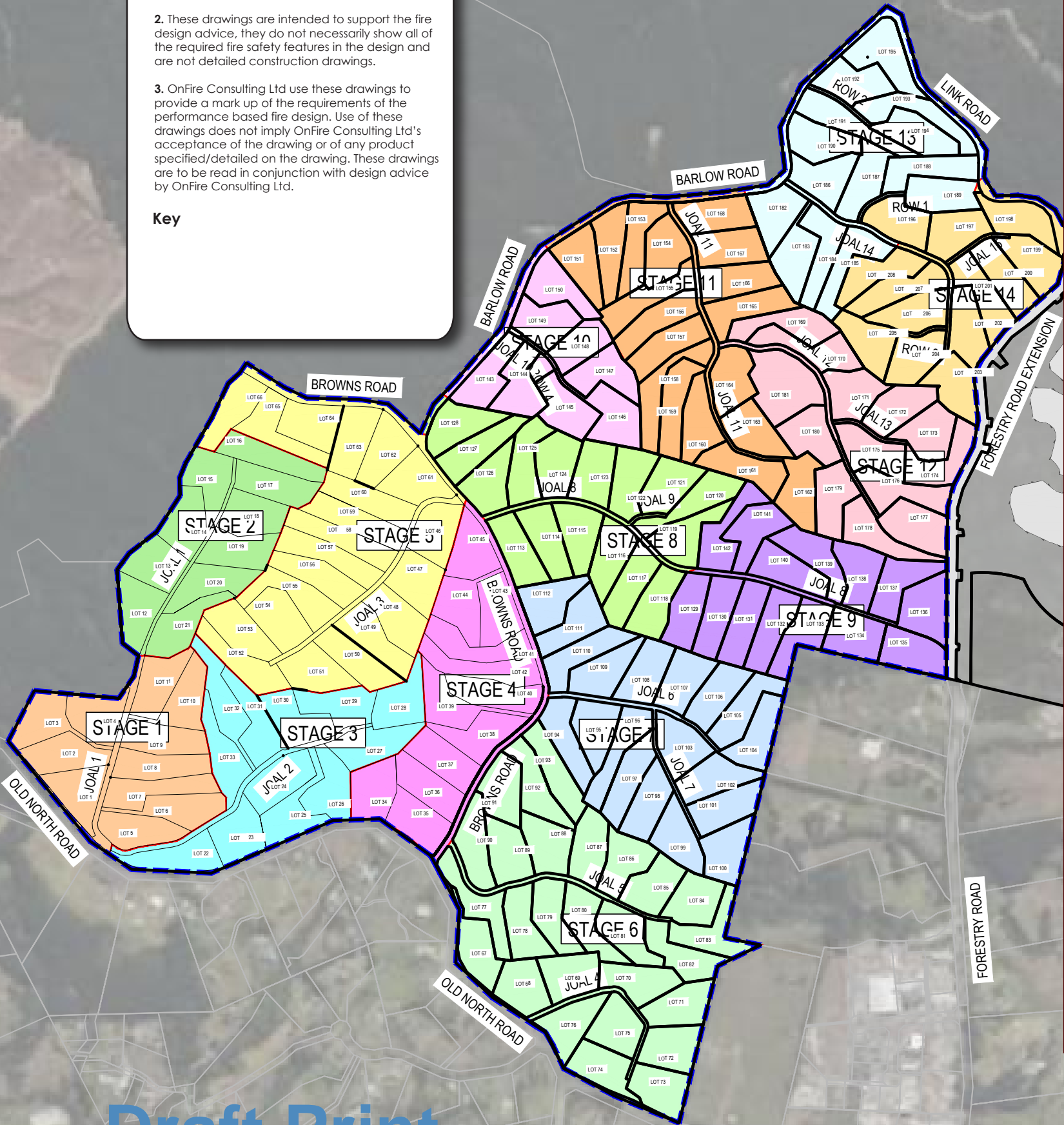




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Concept Fire Design Requirements for Firefighting Water Supply

Advice in accordance with SNZPAS 4509:2008.

Both proposed Lots 1 and 2 are considered remote from public fire hydrants. All buildings on site are considered single storey.

For Lot 1

Residential Standalone and Duplexes Villas (considers no fire sprinkler coverage)

Fire Water Classification FW2  
Consider reservoirs or tank supply (not reticulated external fire hydrant systems) are to be provided on site for residential villas.

Each household unit shall have access to 45,000 litres of firefighting water within 90 m

We are currently in consultation with FENZ to reduce the required water throughout the subdivisions to:  
20,000l of firefighting water for units of greater than 200m2, and  
10,000l of firefighting water for units of up to than 200m2,

Community Building (considers no fire sprinkler coverage)

Largest firecell floor area up to 200 m2. Fire Water Classification FW3  
Considers reservoir or tank supply (not reticulated external fire hydrant systems) are to be provided on site.  
The community building shall have access to 180,000 litres of firefighting water within 90 m.

Notes:

- Reservoirs refers to any standing water supply (such as tanks, swimming pools, ponds) provided there is FENZ access in accordance with SNZPAS 4509 Reservoir volumes may account for serving the largest firecell/building only at any given time
- FENZ vehicle access to reservoirs are to meet the requirements on the previous page, except that 20 tonne loading (as opposed to 25 tonne) may be used.
- Hard standing is to be provided within 5 m of reservoir outlet when lower than hard standing, and within 25 m or reservoir when higher than hard standing
- Tank reservoirs must be automatically topped up, and be capable of manual refilling
- Reservoirs must be proven reliable and accessible at all times
- Maximum practice lift of water to Fire Service Pumps is 7.5 m
- Static water pumps may be required for serving larger firecells/buildings to achieve required L/min water delivery
- Chemically and/or biologically contaminated sources are not acceptable

NOTES

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EX BDY	PR BDY	STAGE BDY	EX EASEMENT	PR EASEMENT	PROP EXTENT WORK
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STAGE 13	STAGE 14	PROPOSED RETIREMENT VILLAGE			

A	RESOURCE CONSENT	MA	02/2025
rev	Description	By	Date
Survey	LANDPRO		03/2023
Design	MA		03/2025
Drawn	MA		02/2025
Checked	RW/KH		03/2025



Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title	<b>PROPOSED DEVELOPMENT OVERVIEW - STAGES</b>		
Project no.	147007		
Scale	1:10,000 @ A3		
Cad file	147007-M-C100 DEVELOPMENT.DWG		
Drawing no.	C100	Rev	<b>A</b>

Draft Print

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