

NOTICE OF PROPOSED DEVELOPMENT

Notice is hereby given that an application has been made for planning approval for the following development:

SITE: 23 Spoonbill Loop, Sorell

PROPOSED DEVELOPMENT:

DWELLING

The relevant plans and documents can be inspected at the Council Offices at 47 Cole Street, Sorell during normal office hours, or the plans may be viewed on Council's website at www.sorell.tas.gov.au until **Tuesday 5th November 2024.**

Any person may make representation in relation to the proposal by letter or electronic mail (<u>sorell.council@sorell.tas.gov.au</u>) addressed to the General Manager. Representations must be received no later than **Tuesday 5th November 2024**.

APPLICANT: Direen Homes Pty Ltd

APPLICATION NO: DA 2024 /242 - 1
DATE: 17 October 2024

Part B: Please note that Part B of this form is publicly exhibited.

Full description of Proposal:	Use: Dwelling					
	Development: Proposed s	single dwellin	ıg			
Large or complex proposals should be described in a letter or planning report.						
Design and cons	struction cost of proposal:	\$ 450),00	0		
Is all, or some th	ne work already constructed:	No: 🖸	<u> </u>	Yes:		
	22 Cn a sub	:!!!!				
Location of proposed	Street address: 23 Spoonb	ш гоор		7.70		
works:	Suburb:	Po	ostco	ode:		
	Certificate of Title(s) Volum	186811 e:		. Folio:		
Current Use of Site	Vacant Land					
Current Owner/s:	Name(s)Ptr	y Ltd				
Is the Property of Register?	on the Tasmanian Heritage	No: ☑ Yes:		If yes, please provide written advice from Heritage Tasmania		
Is the proposal than one stage?	to be carried out in more	No: ☑ Yes:		If yes, please clearly describe in plans		
Have any poten been undertake	No: ☑ Yes:		If yes, please complete the Additional Information for Non-Residential Use			
Is any vegetation	No: 🗹 Yes:		If yes, please ensure plans clearly show area to be impacted			
Does the propose administered or or Council?	No: ☑ Yes:		If yes, please complete the Council or Crown land section on page 3			
	ded vehicular crossing is requi					
complete the Vehicular Crossing (and Associated Works) application form						
https://www.sorell.tas.gov.au/services/engineering/						

Sorell Council

Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf

Declarations and acknowledgements

- I/we confirm that the application does not contradict any easement, covenant or restriction specified in the Certificate of Title, Schedule of Easements or Part 5 Agreement for the land.
- I/we consent to Council employees or consultants entering the site and have arranged permission and/or access for Council's representatives to enter the land at any time during normal business hours.
- I/we authorise the provision of a copy of any documents relating to this application to any person for the purposes of assessment or public consultation and have permission of the copyright owner for such copies.
- I/we declare that, in accordance with s52(1) of the Land Use Planning and Approvals Act 1993, that I have notified the owner(s) of the intention to make this application.
- I/we declare that the information in this application is true and correct.

Details of how the Council manages personal information and how you can request access or corrections to it is outlined in Council's Privacy Policy available on the Council website.

- I/we acknowledge that the documentation submitted in support of my application will become a public record held by Council and may be reproduced by Council in both electronic and hard copy format in order to facilitate the assessment process, for display purposes during public exhibition, and to fulfil its statutory obligations. I further acknowledge that following determination of my application, Council will store documentation relating to my application in electronic format only.
- Where the General Manager's consent is also required under s.14 of the *Urban Drainage Act 2013*, by making this application I/we also apply for that consent.

Applicant Signature:	Signature:	Simon Direen	. Date:	02/10/2024

Crown or General Manager Land Owner Consent

If the land that is the subject of this application is owned or administered by either the Crown or Sorell Council, the consent of the relevant Minister or the Council General Manager whichever is applicable, must be included here. This consent should be completed and signed by either the General Manager, the Minister, or a delegate (as specified in s52 (1D-1G) of the Land Use Planning and Approvals Act 1993).

Please note:

- If General Manager consent if required, please first complete the General Manager consent application form available on our website www.sorell.tas.gov.au
- If the application involves Crown land you will also need a letter of consent.
- Any consent is for the purposes of making this application only and is not consent to undertaken work or take any other action with respect to the proposed use or development.

1		being responsible for the
administration of land atdeclare that I have given permiss	ion for the making of this application for	Sorell Council
		Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf Plans Reference:P1 Date Received:3/10/2024
Signature of General Manager, Minister or Delegate:	Signature:	Date:



Spoonbill Loop Subdivision Sorell

FLOOD HAZARD REPORT

FE_24028 09th May 2024





Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf

Plans Reference:P1
Date Received:3/10/2024

L4/ 116 BATHURST ST HOBART TASMANIA 7000 ABN: 16 639 276 181

Document Information

Title	Client	Document Number	Project Manager
Spoonbill Loop Subdivision, Sorell, Flood Hazard Report	JAC Estate Pty Ltd	FE_24028	Max W. Möller Principal Hydraulic Engineer

Document Initial Revision

REVISION 00	Staff Name	Signature	Date
Prepared by	Max W. Moller Principal Hydraulic Engineer	Apro Miller	25/04/2024
Prepared by	Ash Perera Hydraulic Engineer	AF.	25/04/2024
Prepared by	Christine Keane Senior Water Resources Analyst	Charastlen	25/04/2024
GIS Mapping	Damon Heather GIS Specialist	- April - Apri	26/04/2024
Reviewed by	John Holmes Senior Engineer	goere	29/04/2024
Reviewed by	Max W. Möller Principal Hydraulic Engineer	Agas Miller	07/05/2024
Authorised by	Max W. Moller Principal Hydraulic Engineer	Aps Miller	08/05/2024

Rev No.	Description	Prepared by	Authorised by	Date
00	Draft for client's review	MM	MM	09.05.2024
01	Final Issue	ММ	ММ	09.05.2024

© 2024 Flüssig Engineers Legal Disclaimer

This document is the exclusive intellectual property of Flüssig Engineers, a legal entity duly recognised under the laws governing the jurisdiction in which it operates. The rights, title, and interest in this document, both tangible and intangible, including any proprietary information are vested solely in Flüssig Engineers. The utilisation of this document is strictly subject to the terms and conditions for which it was created and intended for application exclusively in connection with the precise purposes for which it was originally commissioned and ordered.

Any unauthorised use, duplication, dissemination, distribution, modification, or any act that deviates from the scope of the designated engagement is prohibited and is not only in direct contravention of applicable intellectual property laws and contractual obligations but may also result in legal action being pursued by Flüssig Engineers. This prohibition extends to external peer review or any similar assessment, unless expressly authorised in writing by Flüssig Engineers.

Flüssig Engineers reserves the exclusive prerogative to grant or withhold approval for any usage, reproduction, or review of this document outside the parameters established by the Terms of Engagement. Such approval, if granted, shall be documented in written form and signed by an authorised representative of Flüssig Engineers.

Development Application: Development
Application - 23 Spoonbill Loop, Sorell - P1.pdf

Plans Reference:P1
Date Received:3/10/2024

Contents

1.	Introduction	1
1.1	1 Development	1
1.2		
1.3	B Limitations	1
_		_
2.	Model Build	2
2.1		
2.2) · · · · · · · · · · · · · · · · · · ·	
2.3	,	
2.4	1 Development Runoff	5
3.	Model Results	5
3.1	Displacement of Overland Flow on Third Party Property	7
3.2	2 Development Effects on Flooding	
3.3	B Future New Habitable Buildings	7
4.	Flood Howard	0
	Flood Hazard	
4.1	Tolerable Risk	8
5.	Conclusion	9
6.	Recommendations	9
7.	Limitations	10
8.	References	11
Appe	endices	12
List	t of Tables	
T-1-1-	4. Development and four DASTS and above and	2
	1. Parameters for RAFTS catchment	
	3. Regional Flood Frequency Estimation model (RFFE) v/s Flussig Result	
	4. Manning's Coefficients (ARR 2019)	
	5. Habitable Floor Construction Levels	
List	t of Figures	
Figure	e 1. Contributing Catchment, Spoonbill Loop Subdivision, Sorell	2
_	e 2. 1% AEP Flood Event Model, Box and Whisker Plot	
	e 3. 1.0m and 0.1m Combined DEM (Hill shade) of Lot Area	
	e 4. Pre-Development 1% AEP + CC Depth	
	e 5. Hazard Categories Australian Disaster and Resilience Handbook	
-	SORELL	



i

1. Introduction

Flüssig Engineers has been commissioned by JAC Estates Pty Ltd to conduct a detailed Flood Hazard Report tailored to the Spoonbill Loop Subdivision project in Sorell, situated within the jurisdiction of the Sorell Council municipality.

The primary objective of this report is to meticulously assess the flood dynamics within the existing landscape post-development, particularly under the 1% Annual Exceedance Probability (AEP) compounded with climate change conditions. Additionally, it aims to ascertain the minimum required finished floor level permissible for any potential future dwellings located within lots affected by the flood extent within the potential building envelopes.

1.1 Development

The current subdivision development encompasses a total of 65 residential lots, collectively spanning an area of approximately 45,000 square meters positioned between Nash Street and the Orielton Lagoon in Sorell. Presently, each of the lots remains unoccupied.

1.2 Objectives and Scope

This report is to assess the existing development at Spoonbill Loop Subdivision. The objectives of this study are:

- Conduct an evaluation of the flood attributes of the site considering the combined 1% Annual Exceedance Probability (AEP) along with climate change (CC) scenarios.
- Furnish the findings pertaining to flooding concerning the current state of the subdivision development.
- Offer flood mitigation suggestions tailored for potential future development of individual lots, where deemed suitable. Provide an assessment of the site's flood characteristics under the combined 1% AEP plus climate change (CC) scenario.

1.3 Limitations

This study is limited to the objectives of the engagement by the clients, the availability and reliability of data, and including the following:

- The flood model is limited to a 1% AEP + CC worst case temporal design storm.
- All parameters have been derived from best practice manuals and available relevant studies (if applicable) in the area.
- All provided data by the client or government bodies for the purpose of this study is deemed fit for purpose and has not been checked for accuracy.
- The study is to determine the effects of the existing development on flooding behaviour and should not be used as a full flood study outside the specified area without further assessment.



Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf



2. Model Build

2.1 Overview of Catchment

The contributing catchment for Spoonbill Loop Subdivision, Sorell is approximately 35 ha stretching from the Sorell School on Main Road to the east towards the subdivision site with an average slope of 1.5 %.

The land use of the catchment is General Residential and Community Purpose with the specific site being listed as General Residential.

Figure 1 below outlines the approximate contributing catchment for the site at Spoonbill Loop Subdivision, Sorell.



Figure 1. Contributing Catchment, Spoonbill Loop Subdivision, Sorell

2.2 Hydrology

The following Table 1 states the adopted hydrological parameters for the RAFTS catchment, as per best practice guidelines.

Table 1. Parameters for RAFTS catchment

Catchment	Initial Loss	Continuing Loss	Manning's N	Manning's N	Non-linearity
Area (ha)	Perv/imp (mm)	Perv/imp (mm/hr)	pervious	impervious	factor
35	27/1	4.0/0.0	0.045	0.02	-0.285



Design Rainfall EventsFigure 2 shows the box and whisker output of the model run. The model shows that the 1% AEP 10 minute storm temporal pattern 9 was the worst-case median storm. Therefore, this storm event was used within the hydraulic model.

Figure 2. 1% AEP Flood Event Model, Box and Whisker Plot

2.2.1 Climate Change

As per ARR 2019 Guidelines, for an increase in rainfall due to climate change at 2100, it is recommended the use of RCP 8.5. However, ARR 2019 recommends that this figure be used in lieu of more local data being available.

The base scenario of the Climate Futures Tasmania (2010) study was revised following the ARR 2019 Australasia Climate Change study (undertaken by the University of Tasmania), resulting in the original increase in rainfall being reduced to 14.6% in cooler climates (Southern Tasmania). Table 2 shows the ARR 8.5 increase of 16.3% that has been adopted by Sorell Council and therefore used within the model.

Table 2. Climate Change Increases

Catchment	CFT increase @ 2100	ARR 8.5 increase @ 2100	
South East Tasmania	14.6%	16.3%	

2.2.2 Calibration/Validation

This immediate catchment has no stream gauge to calibrate the model against a real-world storm event. Similarly, there is little historical information available, and limited available past flood analysis undertaken to validate against the flows obtained in the model. A Regional Flood Frequency Estimation model (RFFE) has been used to calibrate our rain on grid rainfall estimation. The RFFE values are listed in Table 3 below.

Table 3. Regional Flood Frequency Estimation model (RFFE) v/s Flussig Result.

AEP (%)	Discharge (m³/s)	Lower Confidence Limit (5%) (m³/s)	Upper Confidence Limit (95%) (m³/s)	Flussig Discharge (m³/s)
50	0.140	0.0500	0.350	0.251
20	0.250	0.100	0.610	0.374
10	0.340	0.130	0.900	0.404
5	0.450	0.150	1.32	0.488
2	0.610	0.170	2.11	0.657
1	0.760	0.180	2.95	0.780

Hydraulics 2.3

2.3.1 Survey

The 2D surface model was taken from a combination of GreaterHobart-LiDAR2013-DEM-GRID-(Geoscience Australia) and the "As Constructed" 3D mesh TIN, to create a 1m and 0.1m cell size DEM. For the purposes of this report, 0.1m cells are enough to capture accurate flow paths. The DEM with hill shading can be seen below in Figure 3.

Hydraulic structures are included as either 1D or 2D structures throughout the model, where 1D structures exists a 1D/2D link is provided to allow flow to transition to a structures exists a 1D/2D link is provided to allow flow to transition to a structures. Sorell Council



evelopment Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf





Figure 3. 1.0m and 0.1m Combined DEM (hill shade) of subdivision

2.3.2 Pipes and pits

Pipes and pits were modelled as 1D underground network within the catchment model included the outfall discharge at the treatment area and ultimate to the Orielton Lagune. Pipe and pit data was supplied by the client for inclusion in the model. Underground pipes were connected via 1D/2D connected pits. Pits adopted an inlet flow limitation based off a double grated pit depth/flow curve.

2.3.3 Key Stormwater Assets

Key infrastructure elements on the site consist of an established levee system, which has been incorporated into the model, utilises a modelled Digital Elevation Model (DEM) with the integration of the concrete trench in Infoworks ICM model. This encompasses both the existing and new underground pipe systems within its framework, ensuring comprehensive representation and analysis within the model's scope building.

2.3.4 Roads

Roads often form the basis for overland flow in high frequency events, however the kerb and channel are not always picked up by DEM surface. To correct for the drainage lines, mesh polygons were used to delineate road corridors with the roads being incorporated a z-line along the gutter to ensure the kerb invert is represent in the mesh.

In our Digital Elevation Model (DEM), a "z-line" refers to a line representing a constant elevation or contour line. These lines connect the existing kerb points of equal elevation on the terrain surface, with maximum of 100mm from invert to top of kerb, allowing for visualisation of the terrain's shape and elevation changes.



Date Received:3/10/2024



2.3.5 Roughness (Manning's n)

Roughness values for this model were derived from the ARR 2019 Guidelines. The Manning's values are listed in Table 4.

Table 4. Manning's Coefficients (ARR 2019)

Land Use	Roads	Open Channel	Rural	Residential	Parks	Buildings	Piped Infrastructure
Manning's n	0.018	0.035	0.04	0.045	0.05	0.3	0.013

2.3.6 Buildings

Buildings were represented as mesh polygons with a high Manning's n value within the model. Buildings with unknown floor levels were set with a minimum 300mm above ground.

2.4 Development Runoff

An evaluation of stormwater runoff from the development site has been conducted using the existing subdivision development models. The objective is to ascertain the potential impact of the overland flow path at the Spoonbill Loop Subdivision in Sorell. It is imperative that the existing development does not adversely affect this flow path, in accordance with established guidelines.

3. Model Results

The results obtained from running the 1% AEP (Annual Exceedance Probability) combined with climate change (CC) simulations were applied to the existing subdivision development model scenario. Through an examination of the model runs (refer to Figure 4), it becomes evident that a shallow overland flood path originates from the eastern boundary behind Nash Street, with maximum flood depths reaching 0.15 meters observed at Lot 8 and Lot 9. The variability in maximum flood depths is notable within the lots, ranging from 0.03 meters to 0.15 meters within the confines of the existing subdivision development.

The influence of the current underground stormwater system on the flood extent is significant, notably mitigating much of the overland flood path. However, minor stormwater surcharges are observed in some locations across the lot, particularly around the inlet and outlet of the new concrete trench positioned between Lots 8 and 9.

Notably, the lots affected by the flood extent fall within the lower hazard category. They can feasibly be developed with the implementation of minor mitigation measures, ranging from elevated pad or floor levels to the incorporation of small open drains along lot boundaries.

Figure 4 solely depicts the maximum flood extent across the entire subdivision. The dewatering process for the displayed overland flow areas is anticipated to occur swiftly, facilitated by the absence of significant barriers or impediments hindering the ingress of flow forces into the underground pipe system. Ultimately, these flow forces discharge into the nearby Orielton Lagoon without obstruction.



Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf





Figure 4. Pre-Development 1% AEP + CC Depth.



Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf



3.1 Displacement of Overland Flow on Third Party Property

The current subdivision development analysis reveals that there's no escalation in flood depths affecting neighbouring properties of the development lot. Instead, the overland flow persists towards its natural path. However, this specific subdivision is already impacted by this overland flood path and doesn't add to any heightened flood risk. Consequently, it's safe to conclude that the development doesn't measurably impact third-party properties.

3.2 Development Effects on Flooding

The current subdivision development lies within the natural overland flow path. Yet, with the suggested mitigation strategies, the upcoming dwellings within the impacted lots would pose no negative impact on flooding during a 1% AEP storm event, both within the lot and its surroundings. Velocities and depths in the existing subdivision development scenario fall within the lowest hazard category. Consequently, the post-development models indicate no elevation in risk rating for surrounding properties or infrastructure, nor will it provide an opportunity for development that could result in unacceptable flood risk.

3.3 Future New Habitable Buildings

In order to satisfy the performance standards, set by Building Regulations S.54, any new habitable building construction necessitates a habitable floor level exceeding 300 mm above the flood level of greater than 1% AEP (Annual Exceedance Probability) plus Climate Change (CC) considerations. This regulation applies to the new development at Spoonbill Loop Subdivision, Sorell, as detailed in Table 5. (The requirement for floor level elevation above 1% AEP + CC flood level + 300mm does not extend to non-habitable areas). Below is a summary of the lots affected by flooding extent, potentially falling within the future building footprint.

Table 5. Habitable Floor Construction Levels

Spoonbill Loop Subdivision	1% AEP +CC flood depth (m)	1% AEP + CC flood level (mAHD)	Minimum Floor Level required (mAHD)
Lot 8	0.15	4.80	5.10
Lot 9	0.15	4.81	5.11
Lot 25	0.05	4.89	5.19
Lot 26	0.05	4.88	5.18
Lot 36	0.03	4.32	4.62
Lot 40	0.05	4.42	4.72
Lot 41	0.05	4.48	4.78
Lot 48	0.03	4.08	4.38
Lot 49	0.03	4.05	4.35
Lot 50	0.03	4.05	4.35
Lot 51	0.03	4.01	4.31
Lot 52	0.03	3.96	4.26
Lot 61	0.03	3.30	3.60
Lot 62	0.03	3.24	3.54
Lot 63	0.03	3.20	3.50



As indicated previously, the finished floor level must exceed by at least 300 mm to comply with Building Regulations S.54. If a new pad level is proposed for future dwellings, there should be a minimum vertical height disparity between the pad level plus flood depth and the FFL.

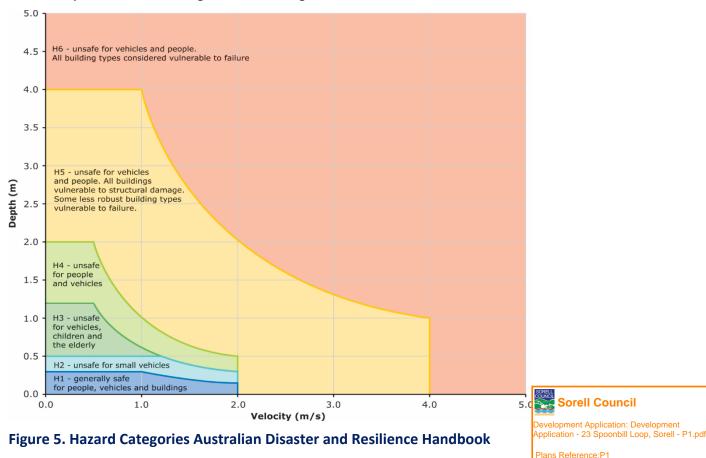
4. Flood Hazard

Under existing conditions the development, the potential locations of the future building in some of the lots are subject to be inundated from 0.03 m to 0.15 m flood depth and 0.13 m/s to 0.42 m/s velocities. This places the hazard rating as adopted by Australian Flood Resilience and Design Handbook as a maximum H1 – Generally safe for people, vehicles and buildings as shown in Appendix A – Hazard maps.

The existing subdivision development scenario sees the most significant flood depths at the eastern boundary of Lot 8 and Lot 9, which has no effect on the hazard rating that remains within the lowest hazard band of H1 for the lot.

As this study does not extend to the public access roads we cannot comment on the accessibility to the site, only within the site. Therefore, this report would advise that residents and visitors remain inside in the event of a flood unless instructed by emergency services.

A summary of the hazard ratings is shown in Figure 5.



4.1 Tolerable Risk

The lot at Spoonbill Loop Subdivision, Sorell is susceptible to a shallow, slow-moving flood plain flow, with the majority of the immediate surrounding region classified low (H1) hazard rating in the 1% AEP + climate change event.

Even at minor velocity and depths during a storm event, erosion and debris movement nevertheless pose a threat. It is recommended that all structures undertake a hydrostatic/hydrodynamic analysis to ensure suitability. If the recommendations in this report are implemented, the proposed structure, which is intended to be a habitable class 1a structure with a 50-year asset life (BCA2022), can achieve a tolerable risk of flooding over its asset life.



Date Received:3/10/2024

5. Conclusion

The Flood Hazard Report for Spoonbill Loop Subdivision, Sorell development site has reviewed the potential development flood scenario.

The following conclusions were derived in this report:

- 1. The existing subdivision development peak flows for the 1% AEP at 2100 were undertaken to analyse the impact of flooding in the future individual lot development.
- 2. Building Regulations S.54 requires a habitable floor level of no less than the levels outlined in Table 5.
- 3. Flood depths range between 0.03 m to 0.15 m affecting the potential building envelopes of fifteen lots in the existing subdivision.
- 4. Velocity ranges between of 0.13 m/s to 0.42m/s in the riverine flood scenarios.
- 5. Hazard classification within the subdivision remains at the majority of H1, including on neighbouring properties.

6. Recommendations

Flüssig Engineers therefore recommends the following engineering design be adopted for the development and future use to ensure future development meets the Inundation Code:

- 1. Future dwelling affected by the flood extent, to have a minimum floor level as per Table 5 or higher.
- 2. A minimum of 2% grade to be maintained between all entrances from the dwelling to the natural ground level.
- 3. Building pads, if any, must be constructed to fall away at a minimum grade of 2% away from the habitable building and have adequate stormwater drainage within the pad extents.
- 4. Proposed structures, located in the inundation areas, are to be designed and constructed with flood tolerable materials that are deemed flood resistant and they can endure direct exposure to floodwaters.
- 5. Future proposed structures within the flood extent, not depicted in this report, must adhere to the recommendations outlined herein.

According to the local Council authority's regulations, the current development complies with the acceptable solutions and performance criteria outlined in the Tasmanian Planning Scheme 2021.



Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf



7. Limitations

Flüssig Engineers were engaged by **JAC Estates Pty Ltd**, for the purpose of a site-specific Flood Hazard Report for Spoonbill Loop Subdivision, Sorell. This study is deemed suitable for purpose at the time of undertaking the study. If the conditions of the site should change, the report will need to be reviewed against all changes.

This report is to be used in full and may not be used in part to support any other objective other than what has been outlined within, unless specific written approval to do otherwise is granted by Flüssig Engineers.

Flüssig Engineers accepts no responsibility for the accuracy of third-party documents supplied for the purpose of this Flood Hazard Report.



Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf



8. References

- Australian Disaster Resilience Guideline 7-3: Technical flood risk management guideline: Flood hazard, 2014, Australian Institute for Disaster Resilience CC BY-NC
- Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors), 2019, Australian Rainfall and Runoff: A Guide to Flood Estimation, Commonwealth of Australia
- Grose, M. R., Barnes-Keoghan, I., Corney, S. P., White, C. J., Holz, G. K., Bennett, J. & Bindoff, N. L. (2010). Climate Futures for Tasmania: General Climate Impacts Technical Report.
- T.A. Remenyi, N. Earl, P.T. Love, D.A. Rollins, R.M.B. Harris, 2020, Climate Change Information for Decision Making –Climate Futures Programme, Discipline of Geography & Spatial Sciences, University of Tasmania.



Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf



Appendices

Appendix A Flood Study Maps



Development Application: Development
Application - 23 Spoonbill Loop, Sorell - P1.pdf



EXISTING CONDITIONS 1% AEP + CC @2100



EXISTING CONDITIONS 1% AEP + CC @2100

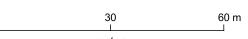


60 m

EXISTING CONDITIONS 1% AEP + CC @2100









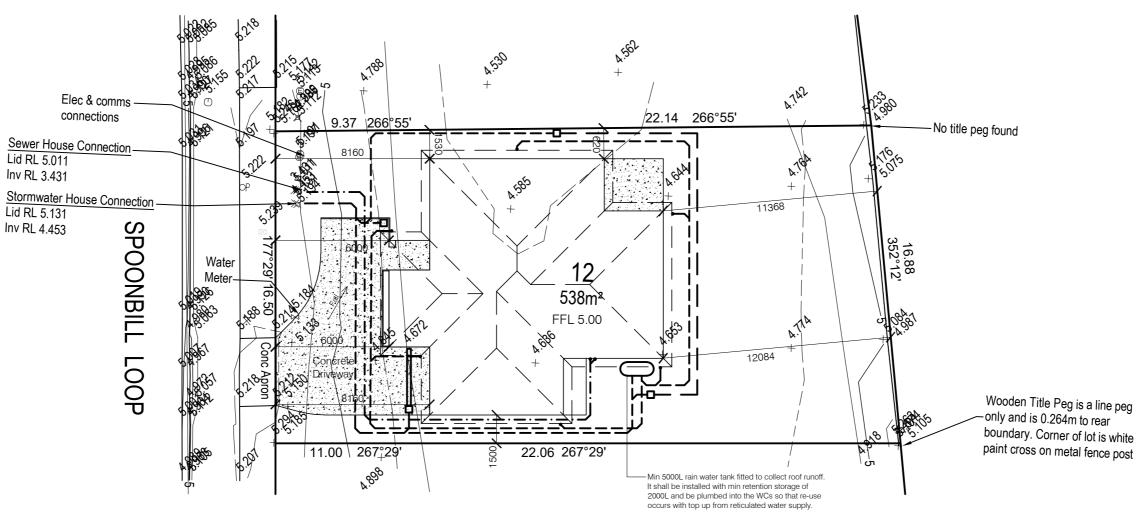
Contact Project Manager: Max Moller



P: 03 6288 7704 M: 0431 080 279

E: max@flussig.com.au
W: www.flussig.com.au
A: Level 4, 116 Bathurst Street

Hobart TAS 7000







Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf

Plans Reference:P1 Date Received:3/10/2024

Amendment:

Date:

Accredited Practitioner:

Narelle Walker - CC1661W
5 Cessna Way
Cambridge TAS 7170

P: 03 62484366

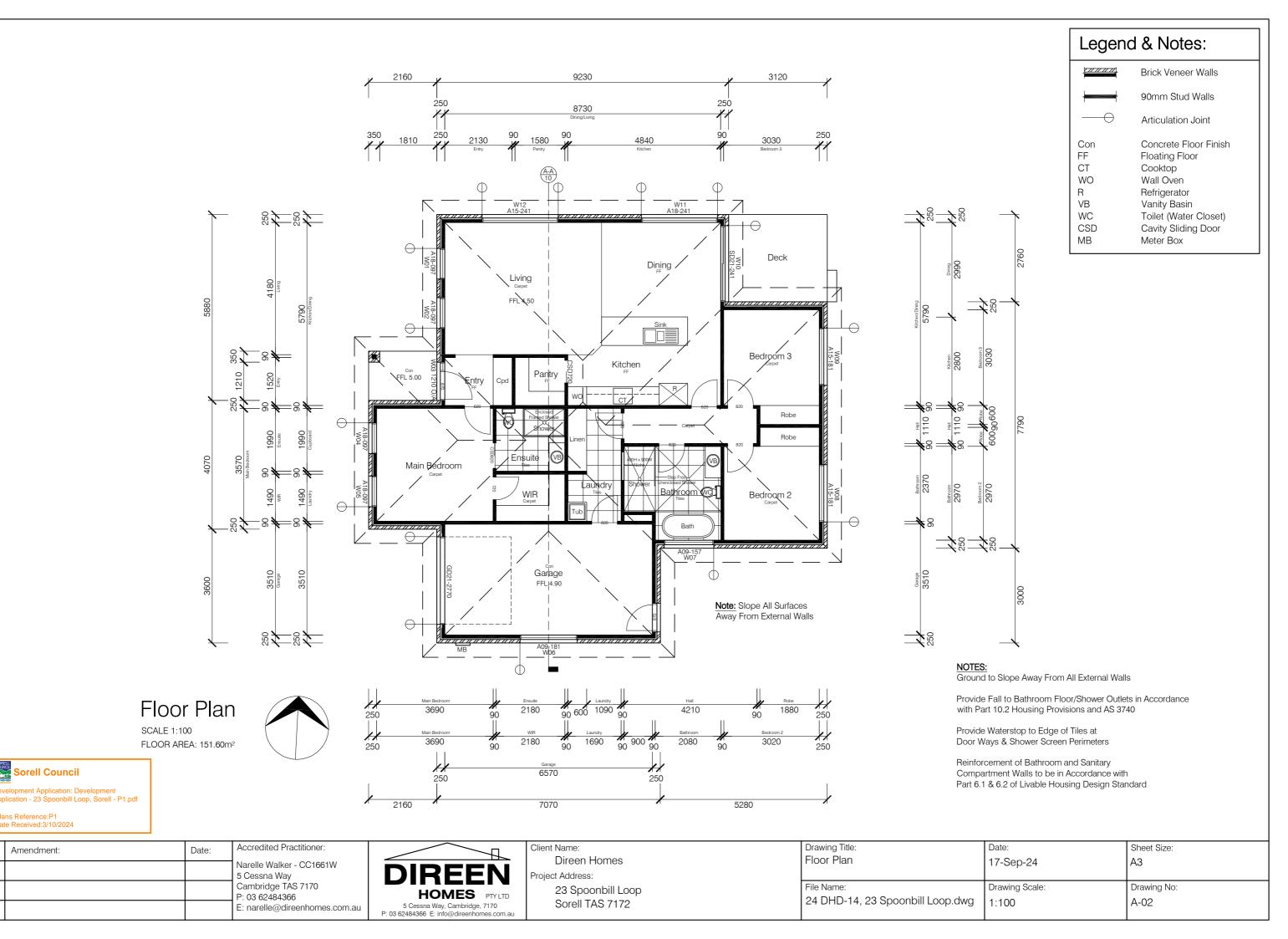
E: narelle@direenhomes.com.au

DIREEN
HOMES PTY LTD
5 Cessna Way, Cambridge, 7170
P: 03 62484366 E: info@direenhomes.com.au

Client Name:
Direen Homes
Project Address:
23 Spoonbill Loop

Sorell TAS 7172

Drawing Title:	Date:	Sheet Size:
Site Plan	17-Sep-24	A3
	•	
File Name:	Drawing Scale:	Drawing No:
24 DHD-14, 23 Spoonbill Loop.dwg	1:200	A-01



Sorell Council

Plans Reference:P1 Date Received:3/10/2024

Amendment:



Colour Selection:

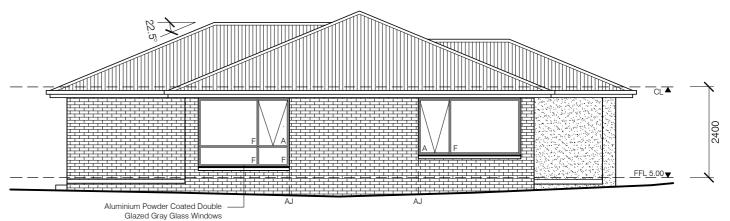
Roof: Basalt
Gutter: Basalt
Fascia: Basalt
Windows: Basalt
Brick: Pearl Smooth
Render: Dover White
Garage Door: Basalt

Legend & Notes:

A Awning Window
AJ Articulation Joint
CL Ceiling Level
F Fixed Window
FL Floor Level
SD Sliding Door

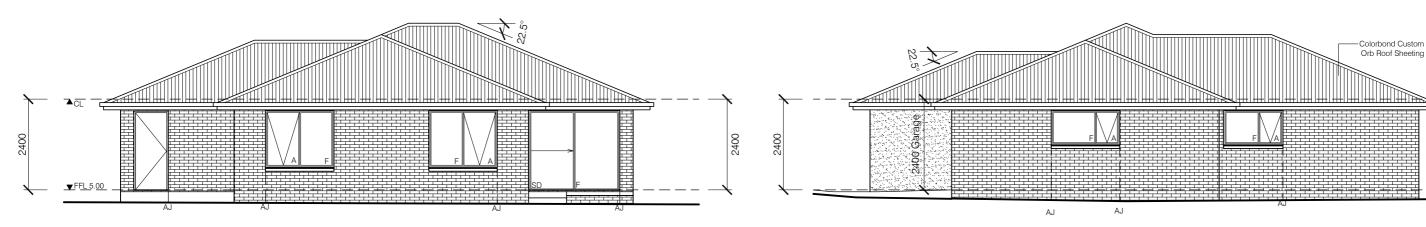
Fascia & Gutter

__ __ <u>FFL</u> <u>5.00</u> <u>▼</u>



North Elevation

SCALE 1:100



North Elevation

SCALE 1:100

SCALE 1:100

West Elevation

SCALE 1:100

Sorell Council

Development Application: Development Application - 23 Spoonbill Loop, Sorell - P1.pdf

Plans Reference:P1 Date Received:3/10/2024

Rev	Amendment:	Date:	Accredited Practitioner:
			Narelle Walker - CC1661W 5 Cessna Way
			Cambridge TAS 7170 P: 03 62484366
			E: narelle@direenhomes.com.au



Client Name:		
Direen Homes		
Project Address:		
23 Spoonbill Loo		

Sorell TAS 7172

	Drawing Title:	Date:	Sheet Size:			
	Elevations	17-Sep-24	A3			
		'				
	File Name:	Drawing Scale:	Drawing No:			
	24 DHD-14, 23 Spoonbill Loop.dwg	1:100	A-03			
ı						