

PROJECT: PRESIDENT PRIVATE HOSPITAL

PLANSET: PRELIMINARY FLOOD ASSESSMENT

CLIENT: MACQUARIE HEALTH CORPORATION



LGA: SUTHERLAND SHIRE COUNCIL

369-381 PRESIDENT AVE, 61-65 HOTHAM RD &
2-4 BIDURGAL AVE, KIRRRAWEE, NSW

LOT 1 DP 841502,
LOTS 22-24A DP 26995
LOTS 54-55 DP 29493

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PRELIMINARY

PREFACE

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2-4 BIDURGA

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Consulting Engineer

Environment

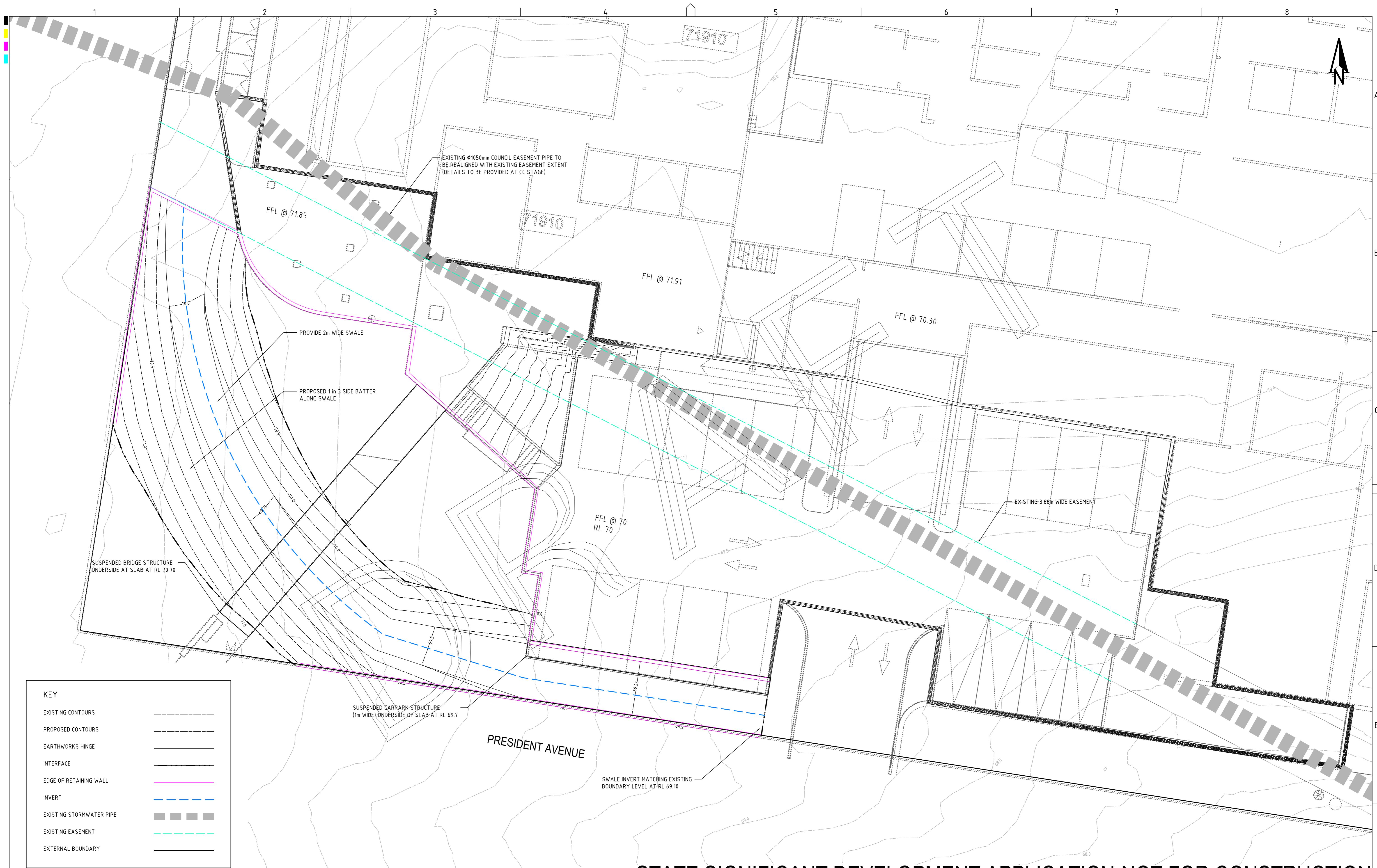
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Geotechnical

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COVER SHEET					
6 8767	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
	P1907286	PS02	R01	PS02-A000	A



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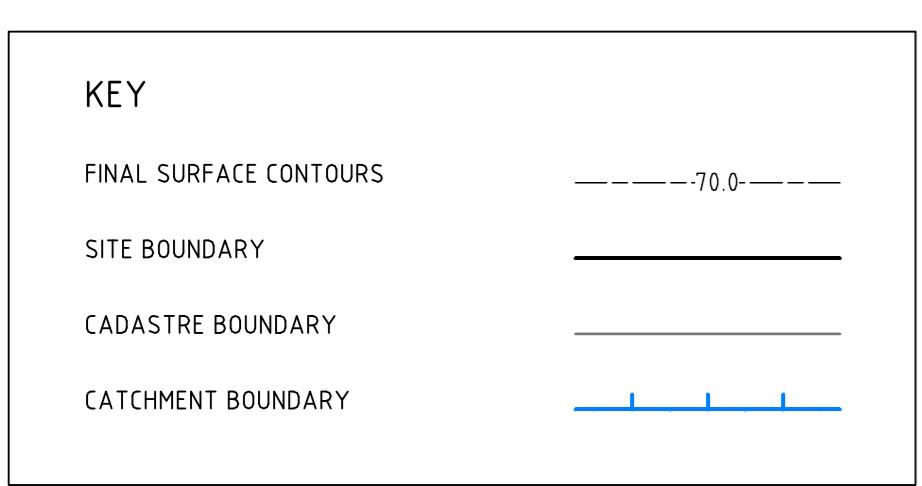
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CONCEPT REDIVISION SWALE GRADING DESIGN

	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
	PS02	R01	PS02-C100	A



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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 20 40 60 80 100 120 140 160 180 200 A1 (A3) 1:2,000 (1:4,000)	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION	CATCHMENT PLAN

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

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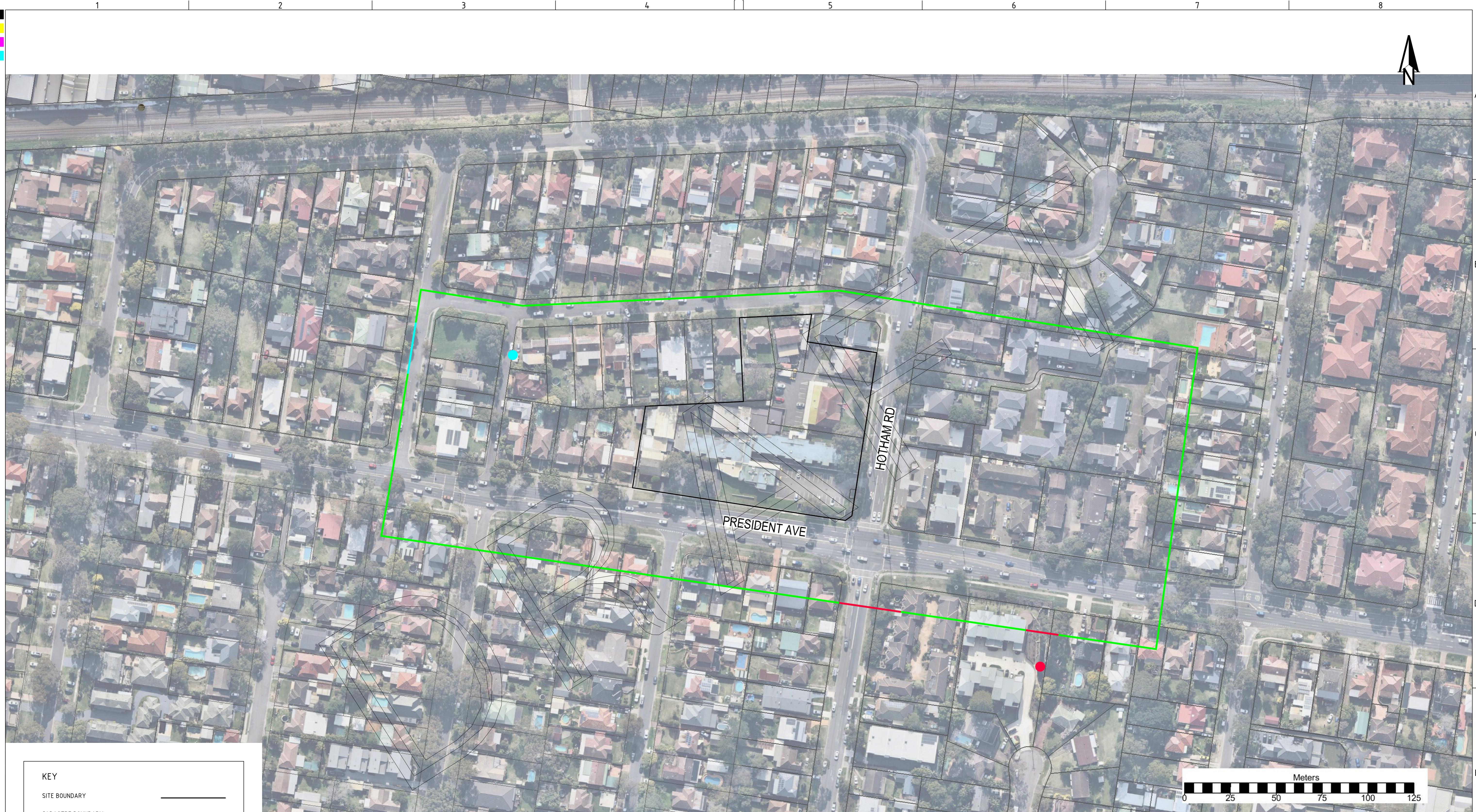
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PROJECT NO. P1907286 PLANSET NO. PS02 RELEASE NO. R01 DRAWING NO. PS02-K000 REVISION A

DRAWING ID: P1907286-PS02-R01-K000



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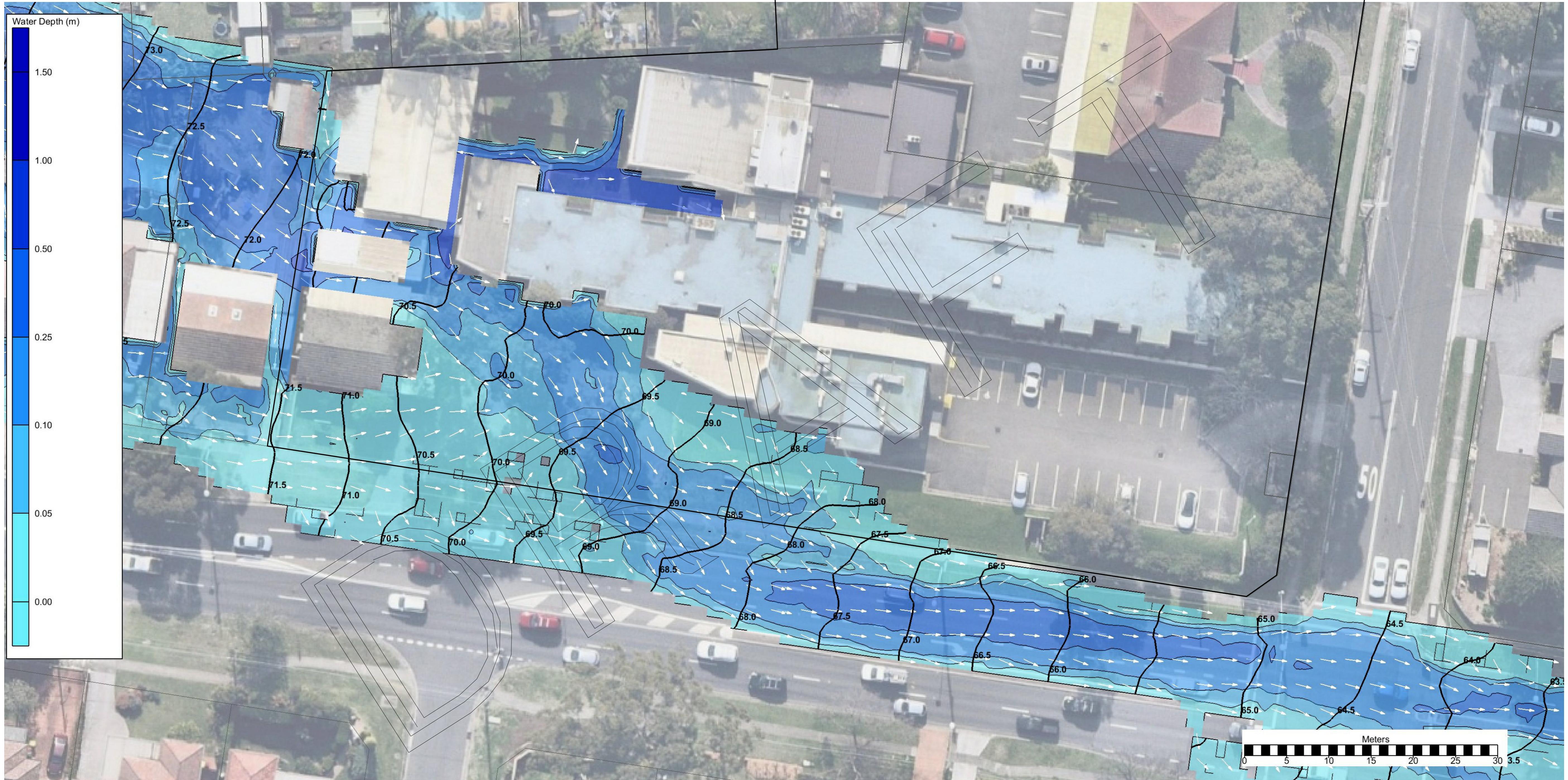
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TUFLOW MODEL SETUP BOUNDARY CONDITIONS

REQUEST NO.	PERMIT NO.	RELEASE NO.	OWNER NO.	REVISION
1907286	PS02	R01	PS02-K030	A



KEY

SITE BOUNDARY

CADASTRE BOUNDARY

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A1 / A3 LANDSCAPE (A1LC_v02.00)

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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION

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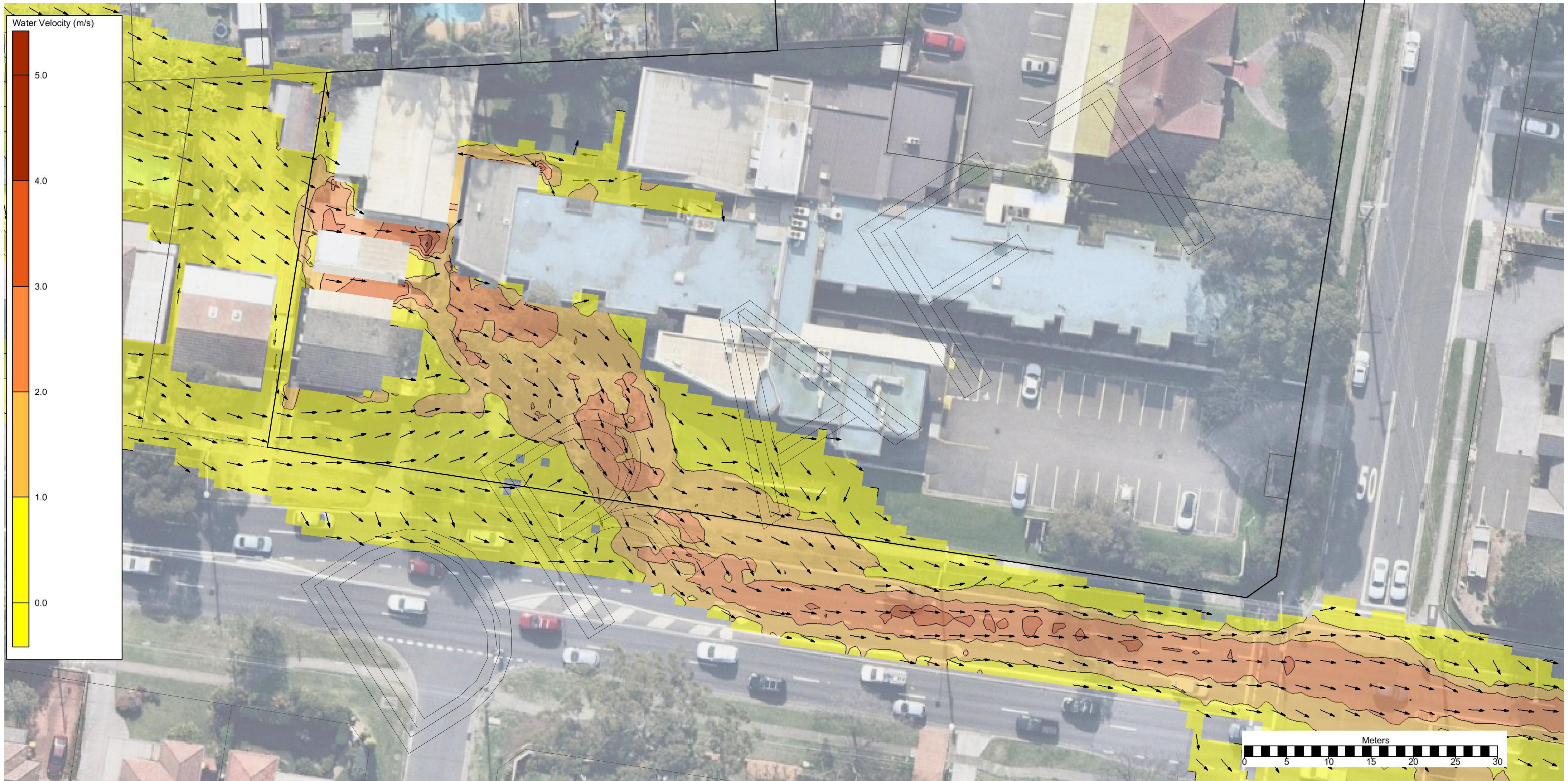
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PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K160	A

DRAWING ID: P1907286-PS02-R01-K160



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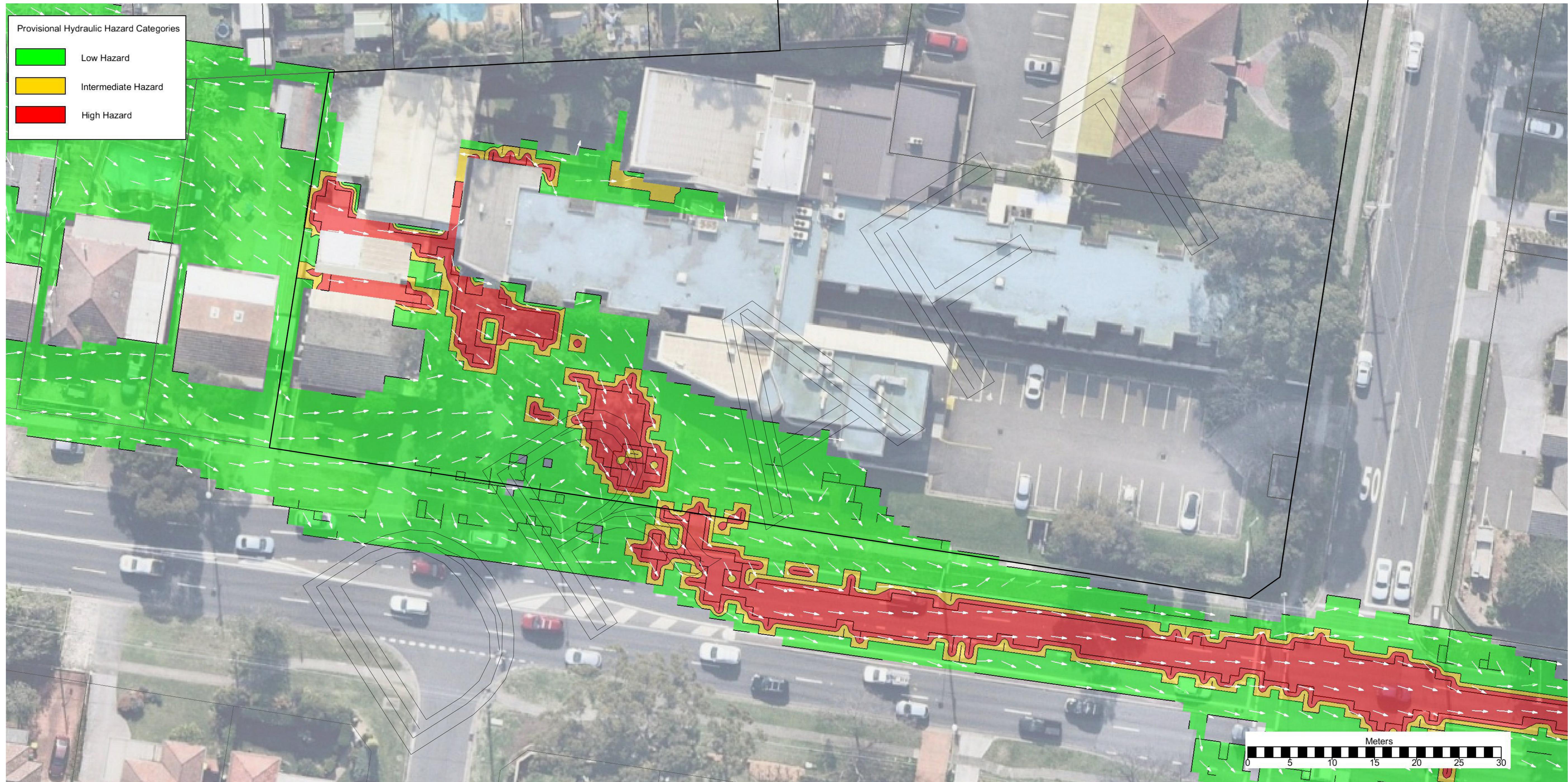
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DRAWING NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K162	A



KEY

SITE BOUNDARY

CADASTRE BOUNDARY

NOTE

- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES

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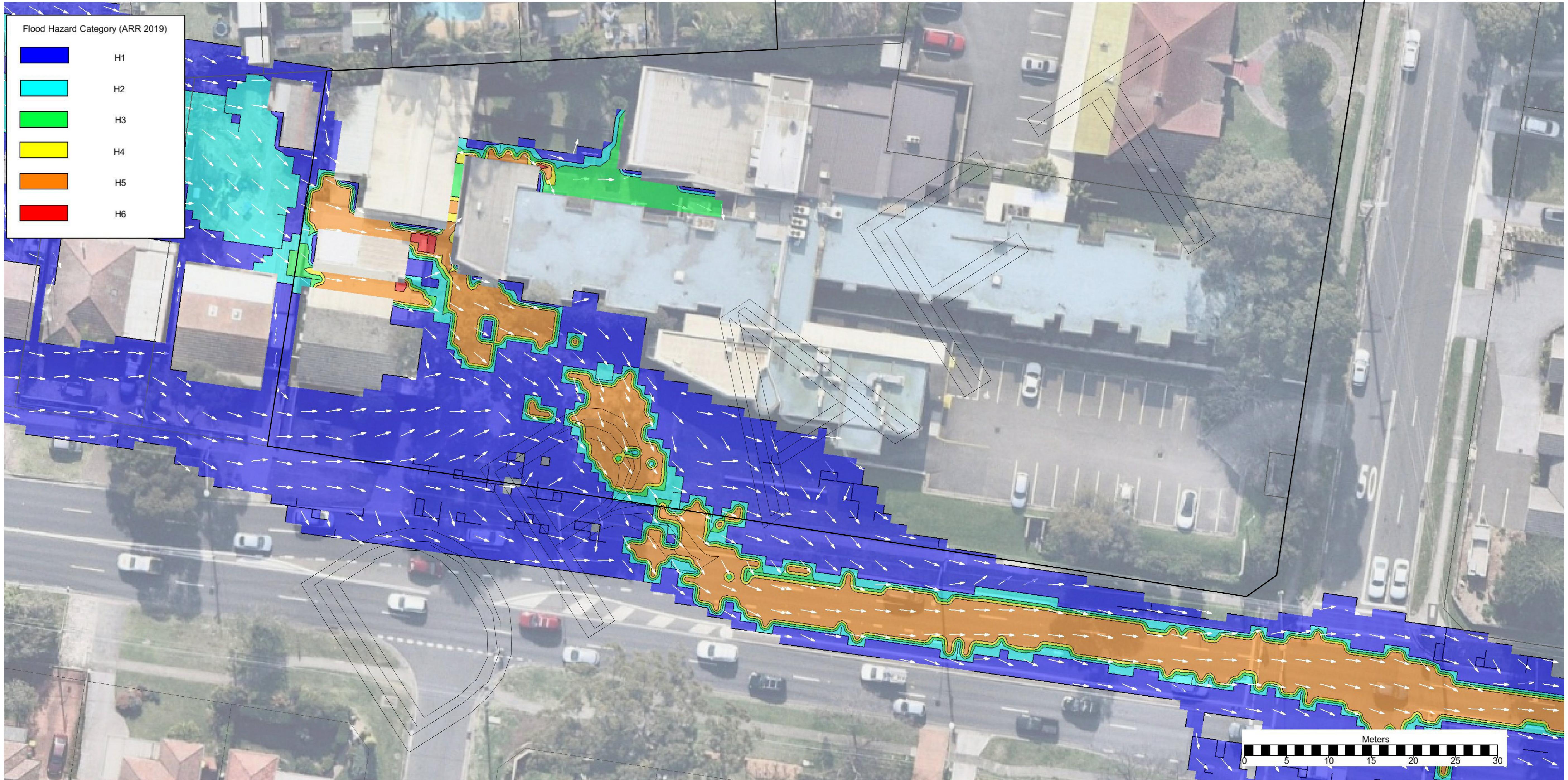
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TITLE
1% AEP CRITICAL STORM DURATION
EXISTING CONDITION
PROVISIONAL HYDRAULIC HAZARD CATEGORIES

0.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
36	PS02	R01	PS02-K164	A



KEY

SITE BOUNDARY _____

CADASTRE BOUNDARY _____

NOTES:
- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF
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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	mAHD	TH	MACQUARIE HEALTH CORPORATION	

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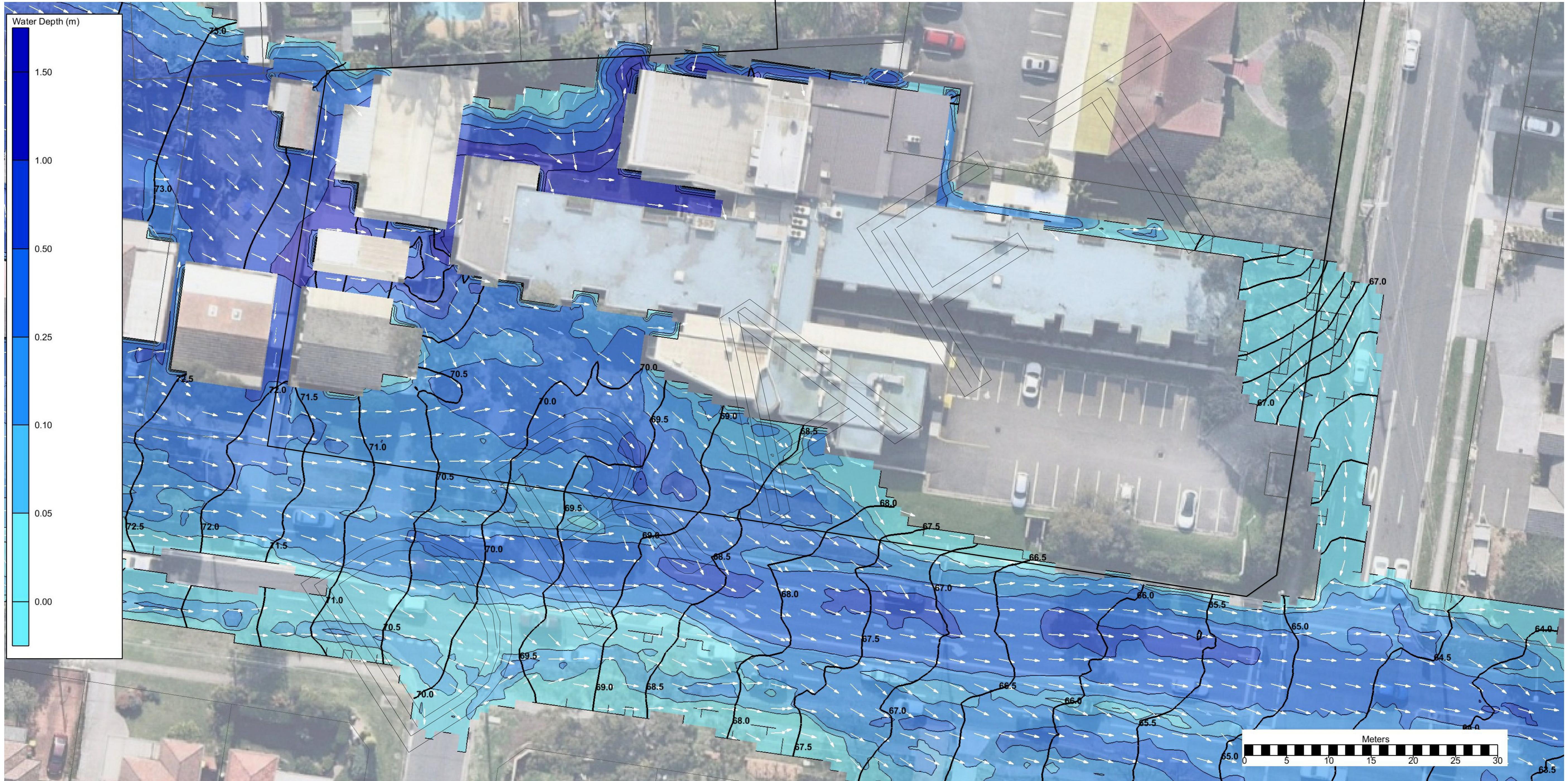
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P1907286	PS02	R01	PS02-K165	A



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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION

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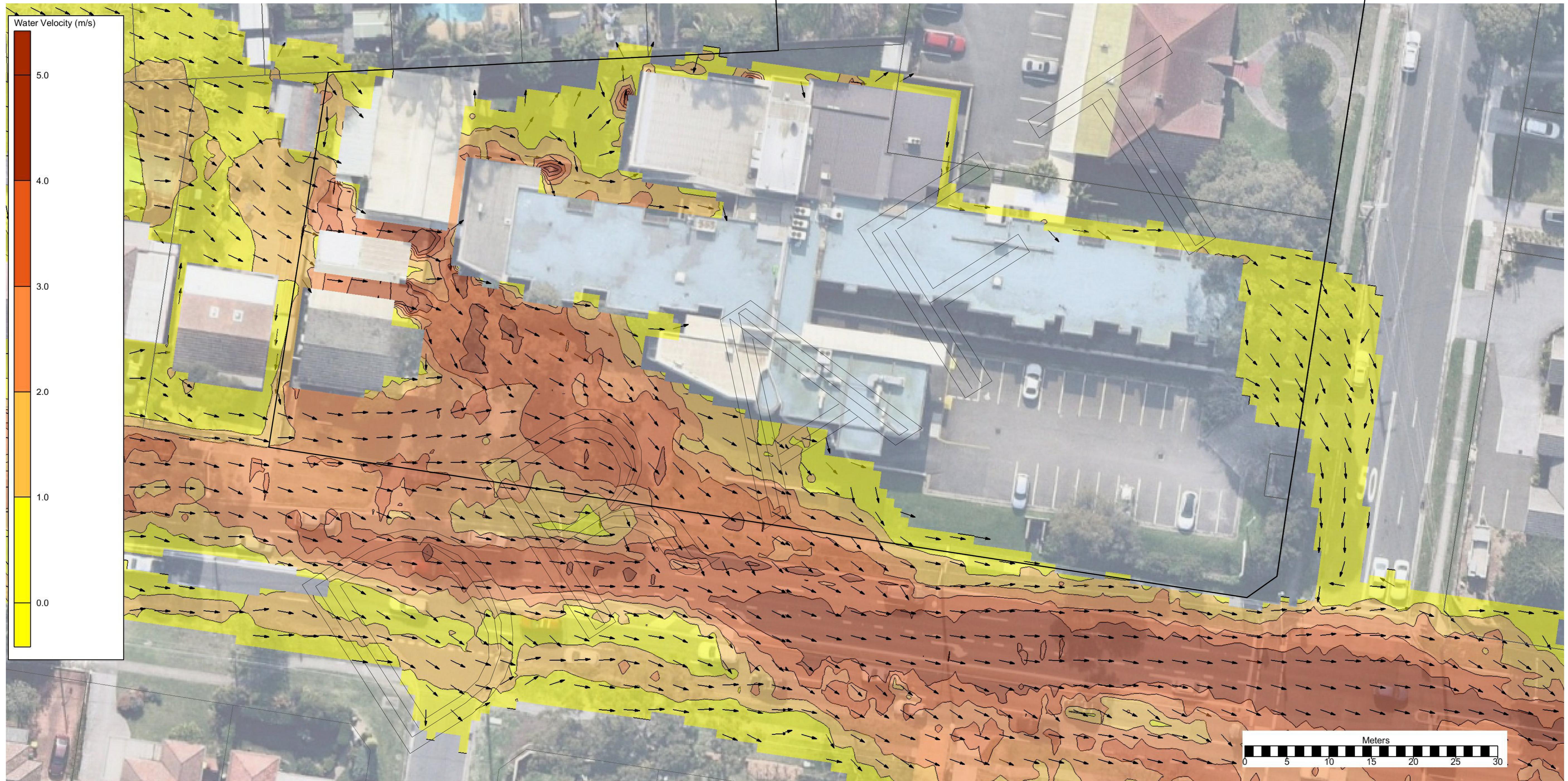


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PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K180	A

PMF CRITICAL STORM DURATION
EXISTING CONDITION
WATER LEVEL (mAHD) & WATER DEPTH (m)

DRAWING ID: P1907286-PS02-R01-K180



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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	mAHD	TH	MACQUARIE HEALTH CORPORATION

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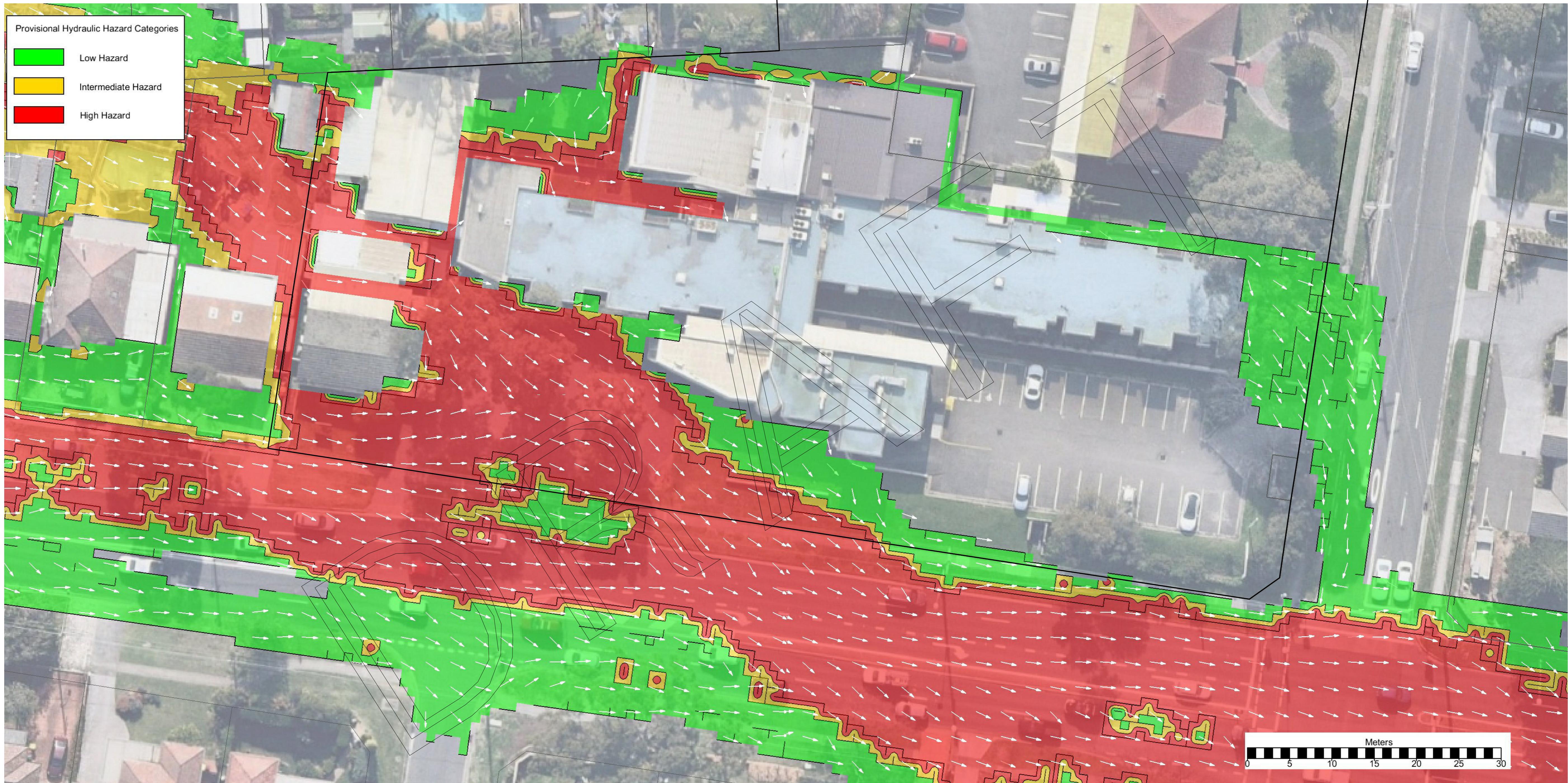


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DRAWING NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K182	A

PMF CRITICAL STORM DURATION
EXISTING CONDITION
WATER VELOCITY (m/s)

DRAWING ID: P1907286-PS02-R01-K182



KEY

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CADASTRE BOUNDARY

NOTES

- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES

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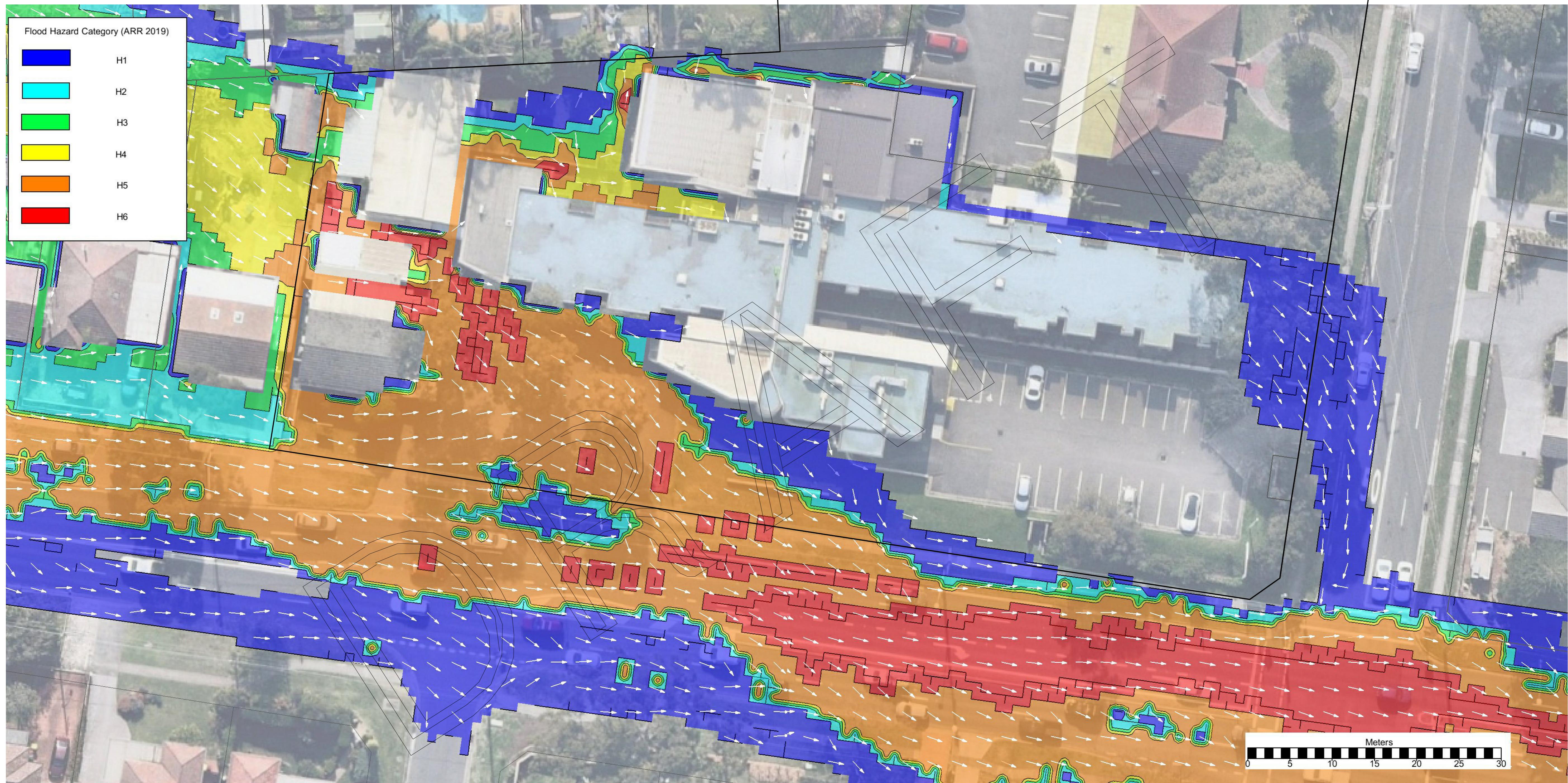
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TITLE
PMF CRITICAL STORM DURATION
EXISTING CONDITION
PROVISIONAL HYDRAULIC HAZARD CATEGORIES

0.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
36	PS02	R01	PS02-K184	A



KEY

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NOTE

- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF (2019) "A GUIDE TO FLOOD ESTIMATION" COMBINED FLOOD HAZARD CATEGORIES

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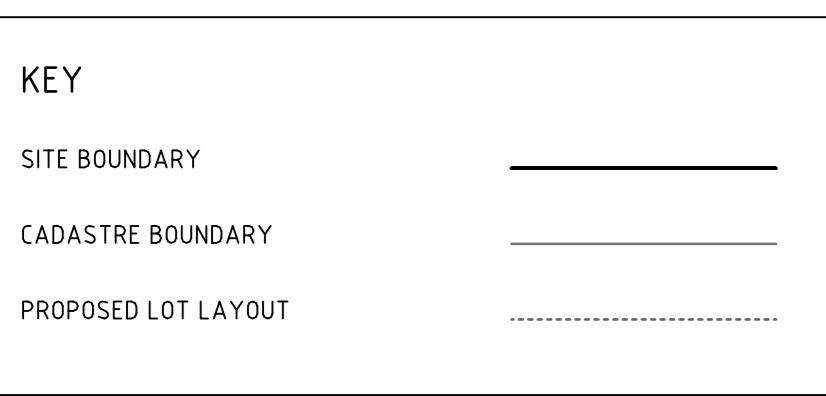
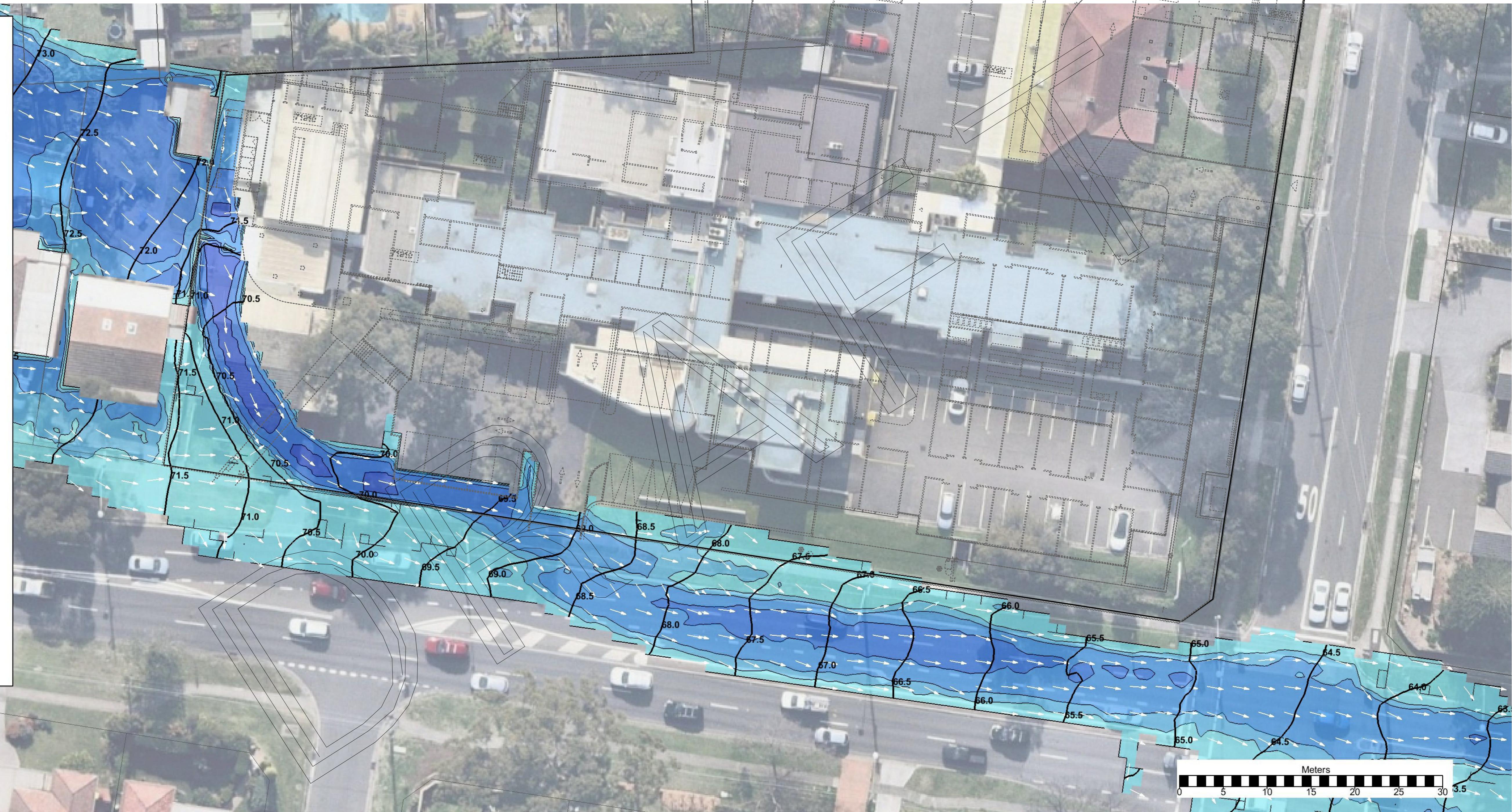
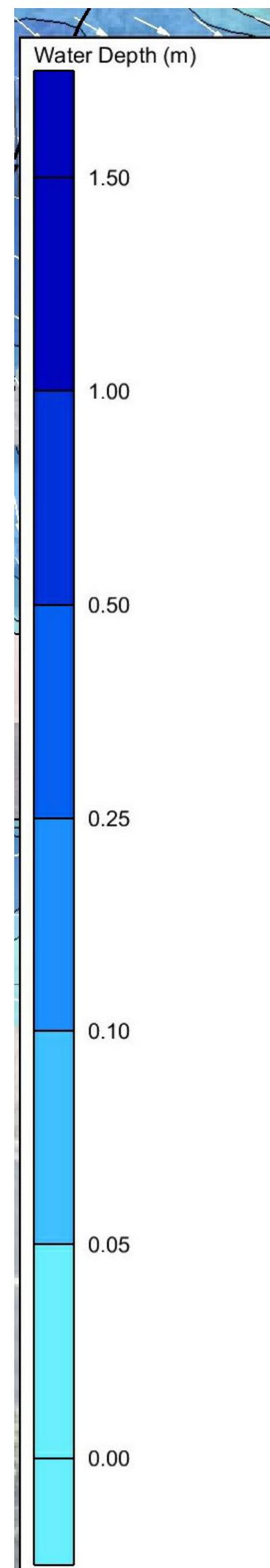
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PMF CRITICAL STORM DURATION EXISTING CONDITION ARR FLOOD HAZARD CATEGORIES

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1907286	PS02	R01	PS02-K185	A



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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION

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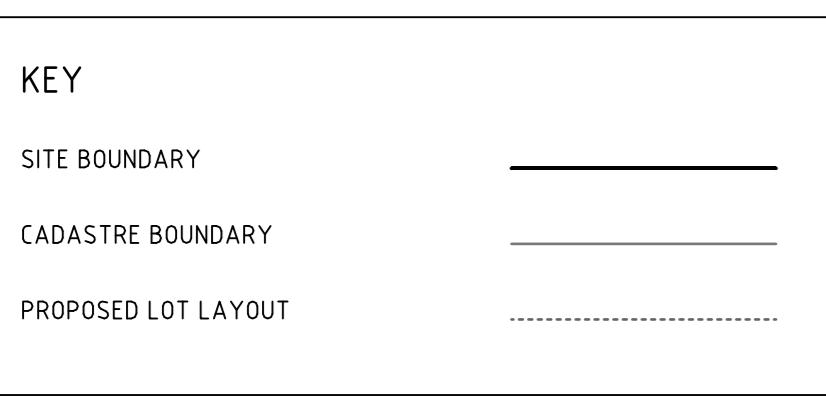
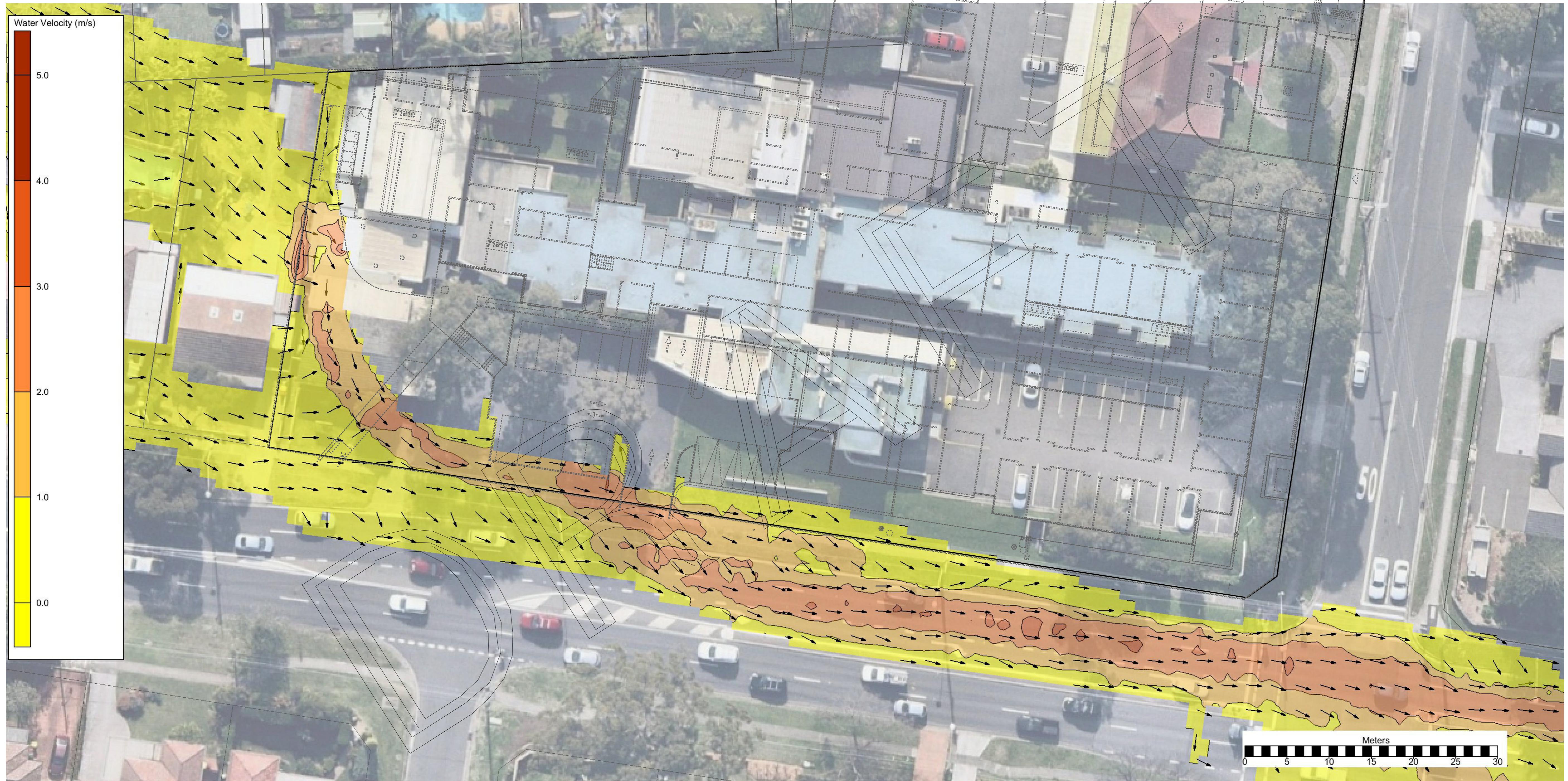
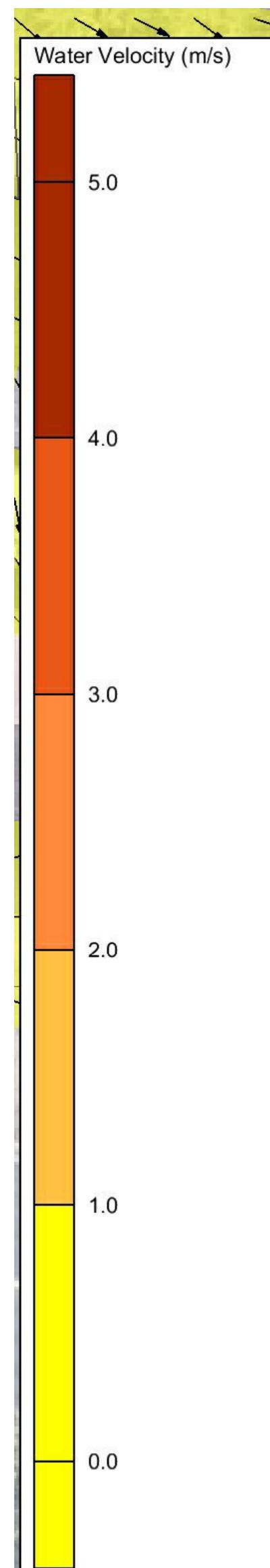


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1% AEP CRITICAL STORM DURATION
PROPOSED CONDITION
WATER LEVEL (mAHD) & WATER DEPTH (m)

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K260	A

DRAWING ID: P1907286-PS02-R01-K260



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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	mAHD	TH	MACQUARIE HEALTH CORPORATION	

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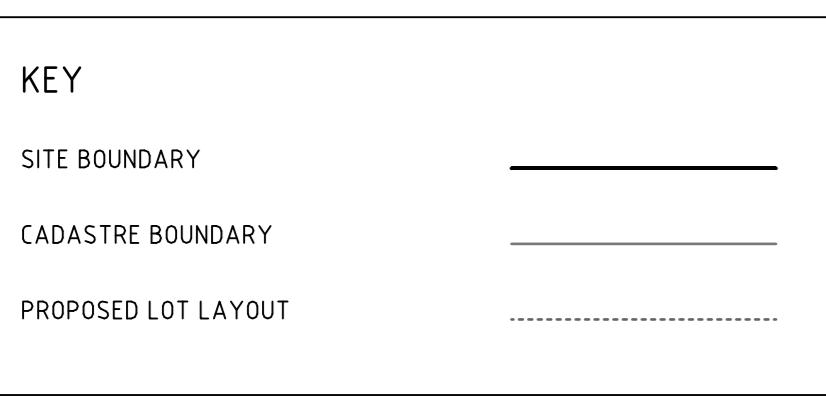
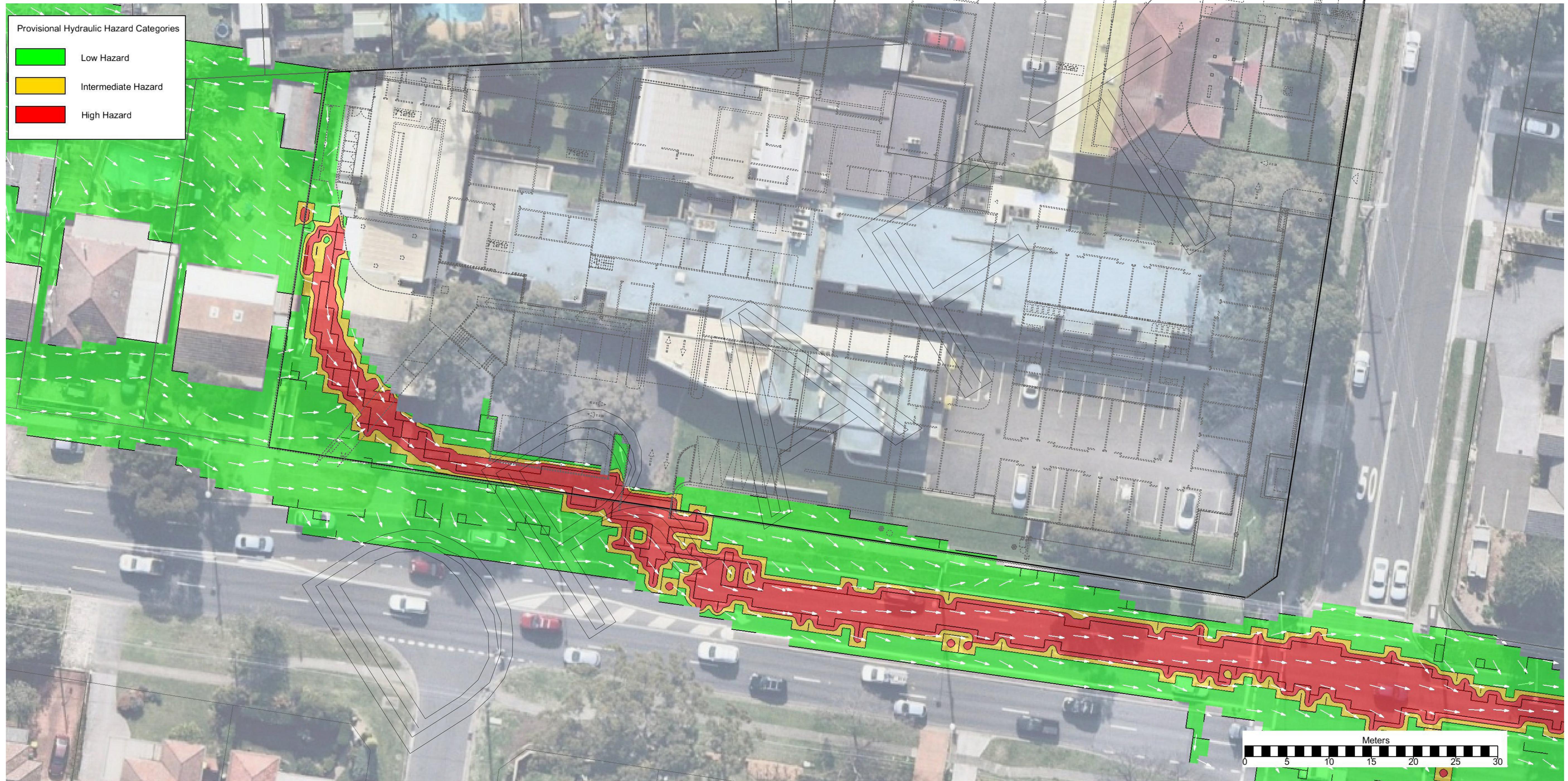
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DRAWING TITLE	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)		
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.
P1907286	PS02	R01	PS02-K262 A

DRAWING ID: P1907286-PS02-R01-K262



NOTES:
- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN
DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES.

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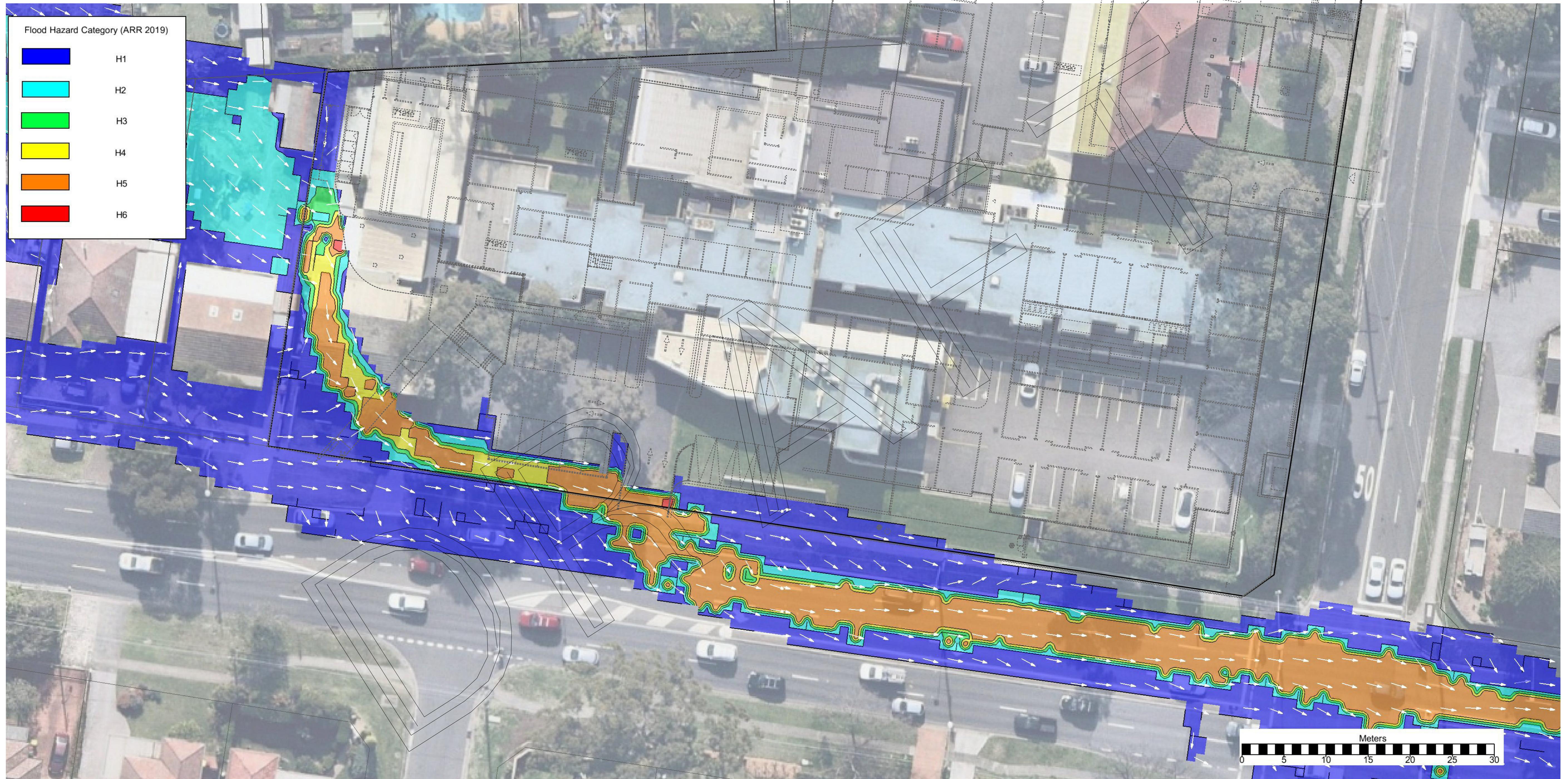
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1% AEP CRITICAL STORM DURATION
PROPOSED CONDITION
PROVISIONAL HYDRAULIC HAZARD CATEGORIES

PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K264	A



KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____
PROPOSED LOT LAYOUT

NOTES:
- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF
(2019) "A GUIDE TO FLOOD ESTIMATION" COMBINED FLOOD HAZARD CATEGORIES..

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	mAHD	TH	MACQUARIE HEALTH CORPORATION

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PROJECT NAME/PLANSET TITLE

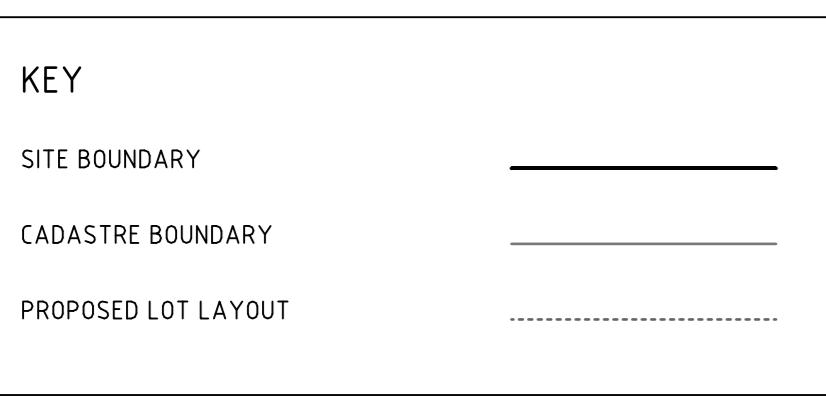
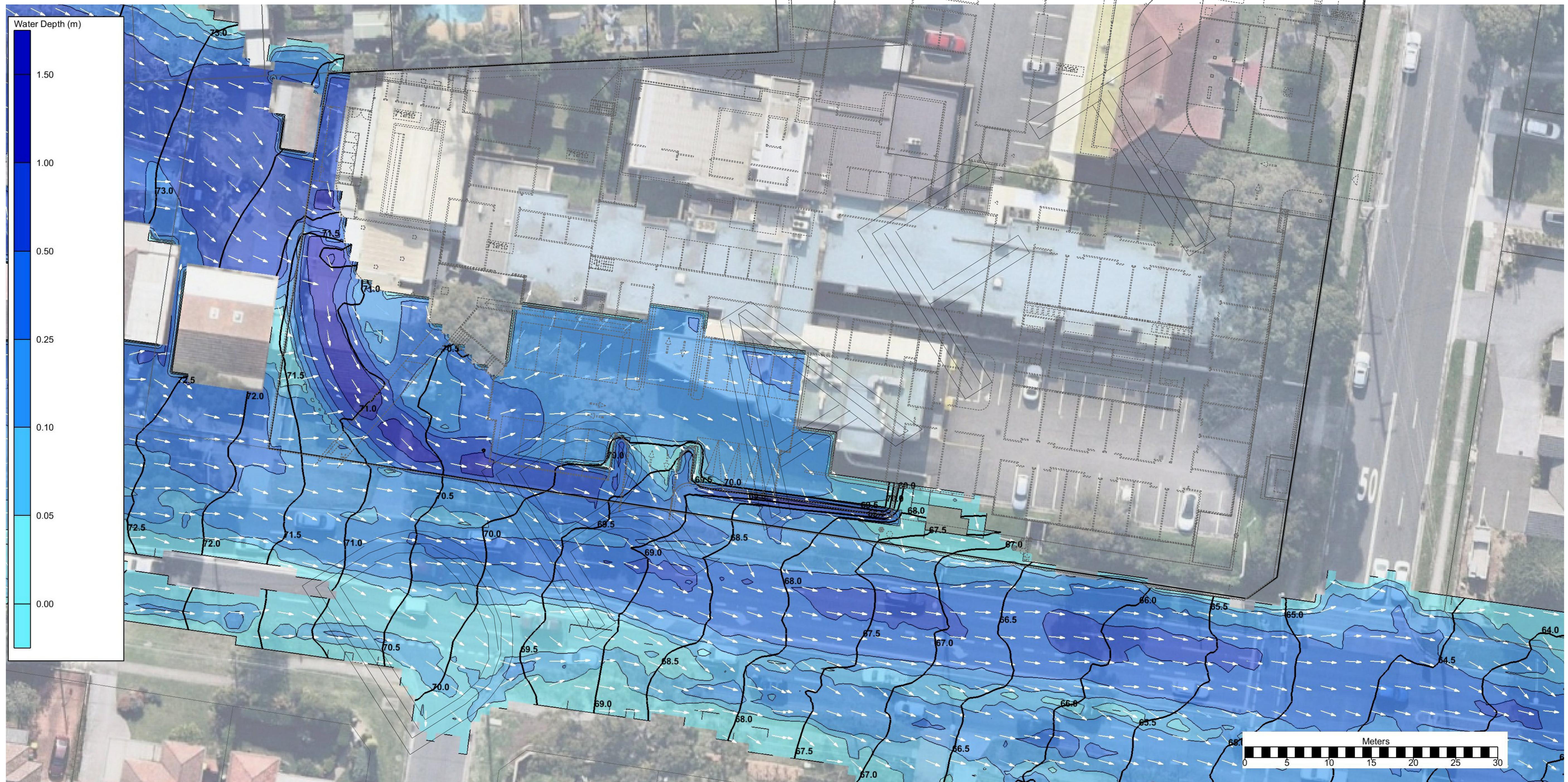
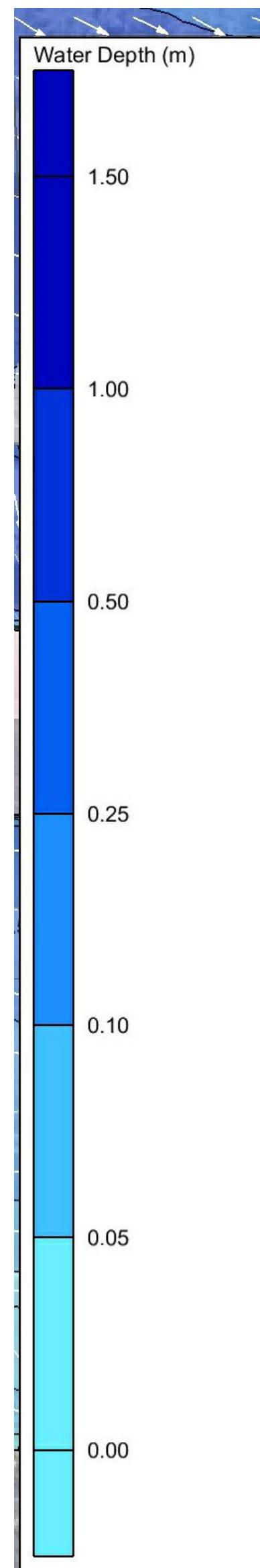
PRESIDENT PRIVATE HOSPITAL
PRELIMINARY FLOOD ASSESSMENT

369-381 PRESIDENT AVE, 61-65 HOTHAM RD &
2-4 BIDURGAL AVE, KIRRABEE, NSW



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PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K265	A



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A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	MGA	mAHD	TH	This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd (C) Copyright Martens & Associates Pty Ltd	MACQUARIE HEALTH CORPORATION PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW	PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)

A1 / A3 LANDSCAPE (A1LC_v02.00)

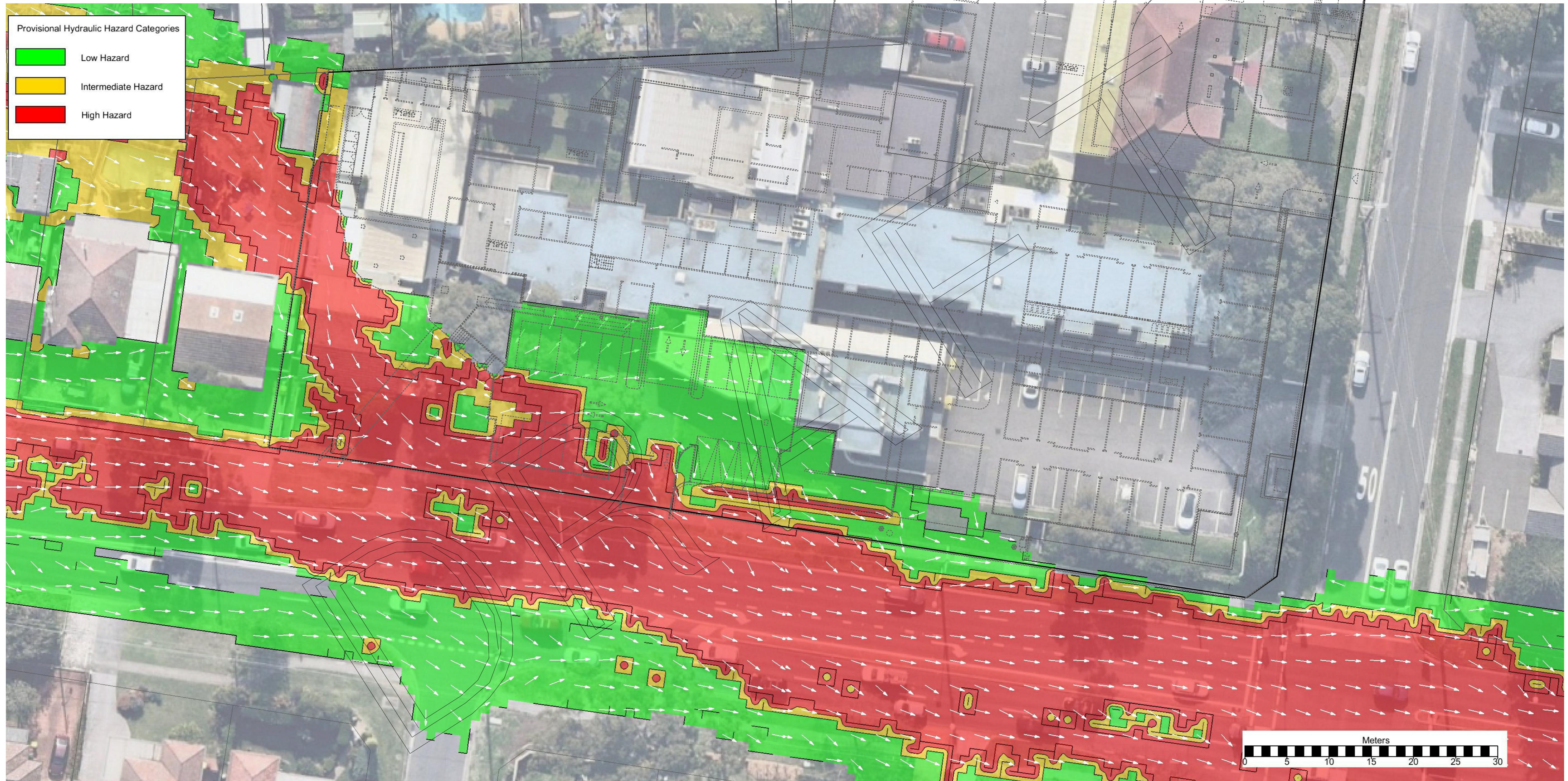


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PROJECT NO. P1907286 PLANSET NO. PS02 RELEASE NO. R01 DRAWING NO. PS02-K280 REVISION A

DRAWING ID: P1907286-PS02-R01-K280



KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____
PROPOSED LOT LAYOUT

NOTES:
- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN
DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES.

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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE	
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION	PMF CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES

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PROJECT NAME/PLANSET TITLE

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PRELIMINARY FLOOD ASSESSMENT

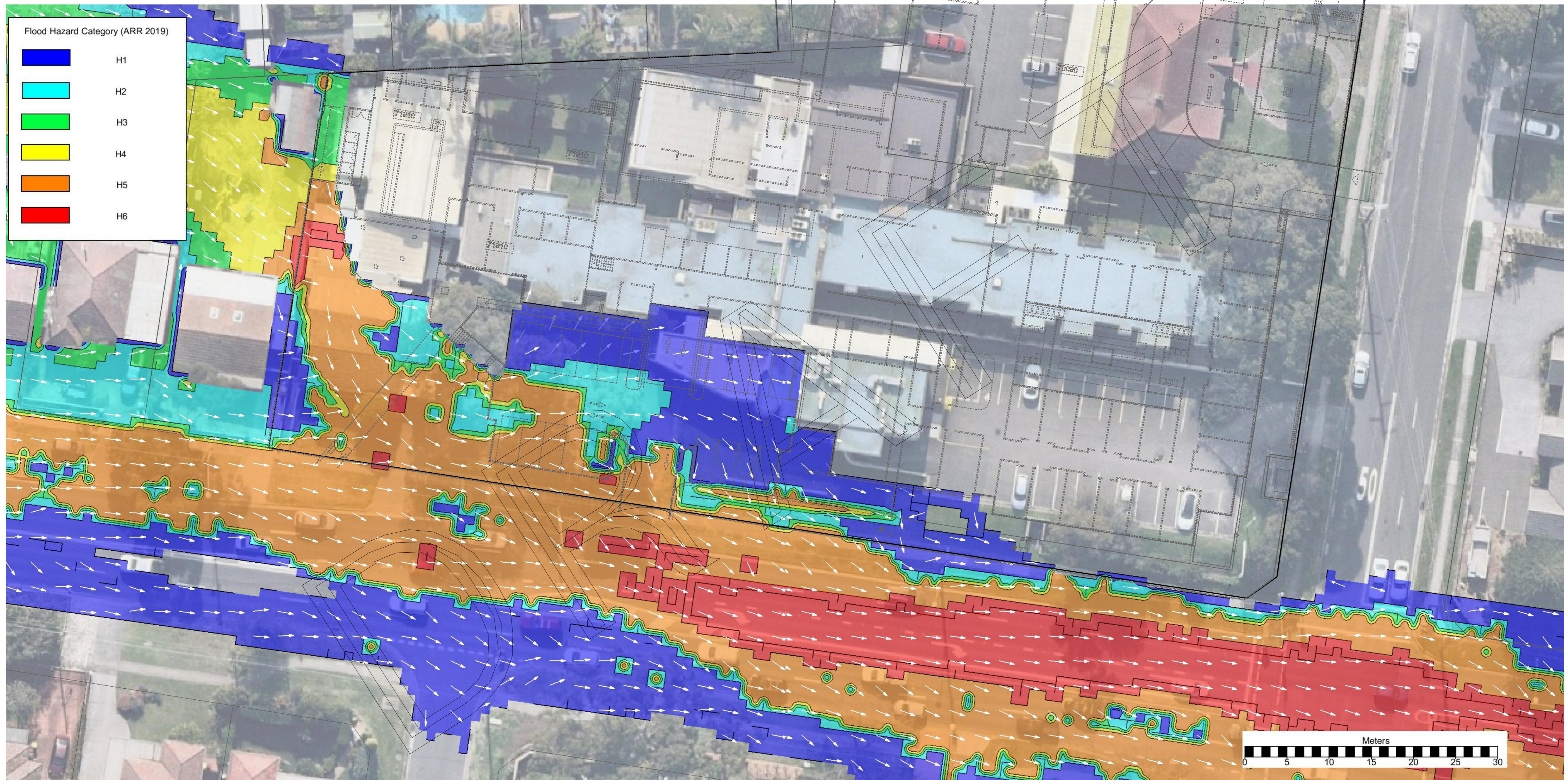
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2-4 BIDURGAL AVE, KIRRAWEE, NSW

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PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K284	A



KEY

SITE BOUNDARY _____

CADASTRE BOUNDARY _____

PROPOSED LOT LAYOUT _____

NOTES:
- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF (2019) "A GUIDE TO FLOOD ESTIMATION" COMBINED FLOOD HAZARD CATEGORIES

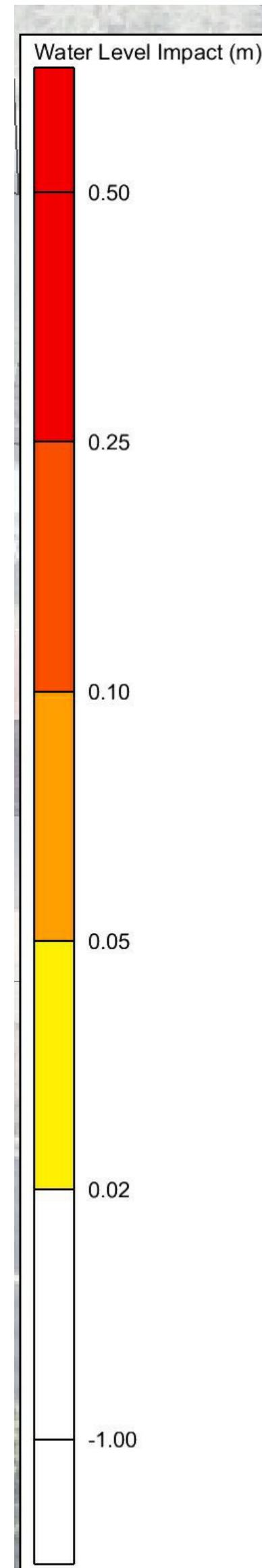
STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

<p>ss signed as approved by e specified. r part without prior written y Ltd</p>	<p>PROJECT NAME/PLANSET TITLE PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW</p>
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DRAWING TITLE	<p style="text-align: center;">PMF CRITICAL STORM DURATION PROPOSED CONDITION ARR FLOOD HAZARD CATEGORIES</p>			
	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.
767	P1907286	PS02	R01	PS02-K285
				A



KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____
PROPOSED LOT LAYOUT

NOTES:
 - AREAS COLOURED WHITE REPRESENT NEGLIGIBLE CHANGE.
 - AREAS COLOURED YELLOW / RED REPRESENT WATER LEVEL INCREASE.

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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE	
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 METRES	A1 (A3) 1:250 (1:500)	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION	1% AEP CRITICAL STORM DURATION
												PROPOSED CONDITION	
												WATER LEVEL IMPACT (m)	

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PROJECT NO. P1907286 PLANSET NO. PS02 RELEASE NO. R01 DRAWING NO. PS02-K360 REVISION A