

PROJECT: ENGINEERING SERVICES FOR DA

PLANSET: FLOOD ASSESSMENT

CLIENT: LOTUS PROJECT MANAGEMENT PTY LTD



LOCALITY PLAN
NOT TO SCALE

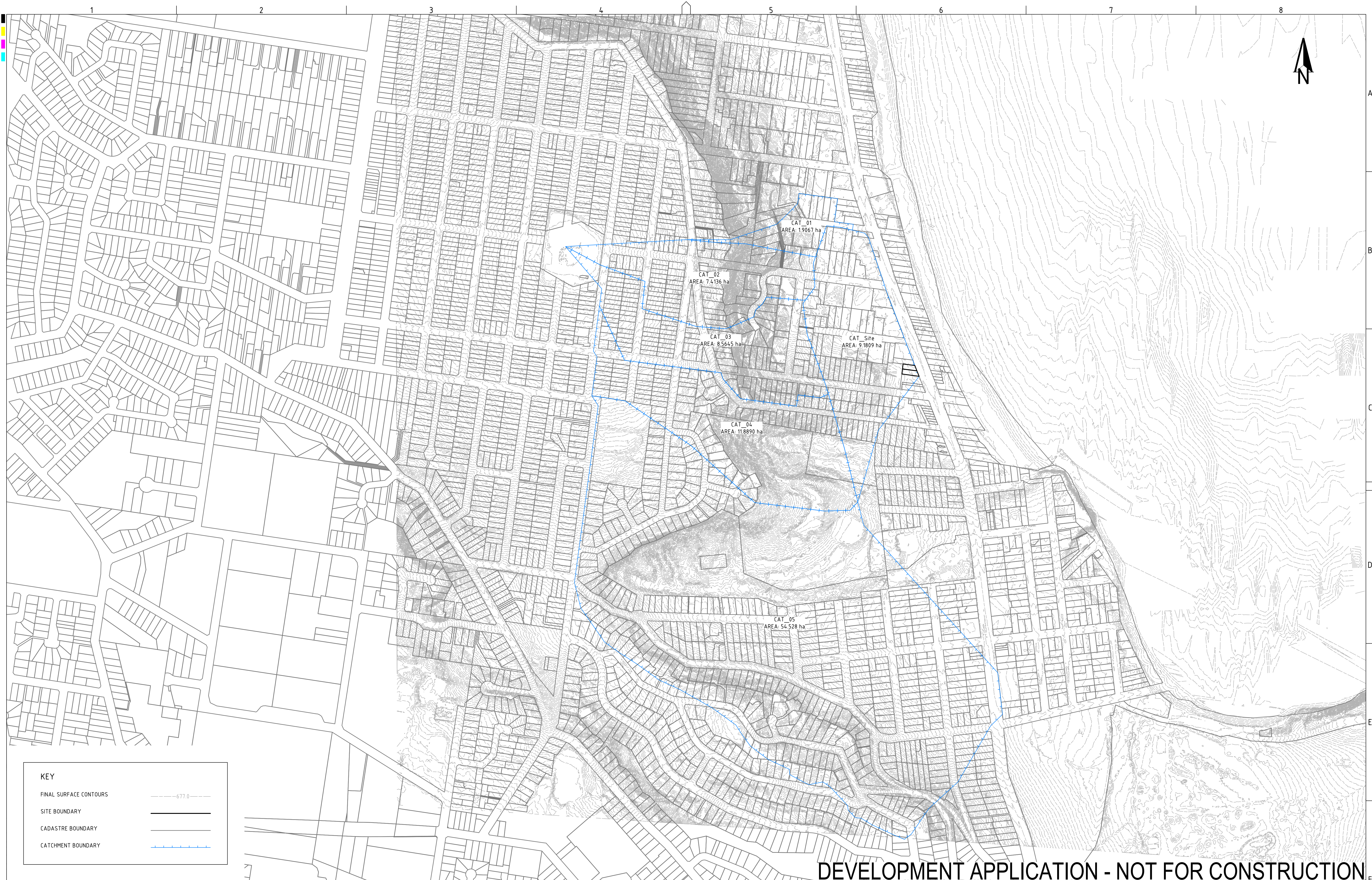
LGA: NORTHERN BEACHES COUNCIL

1129-1131 PITTWATER ROAD, COLLAROY, NSW
LOT 4 DP 7445 AND LOT 1 DP 859613

DRAWING LIST		
DWG NO.	REV	DWG TITLE
GENERAL		
PS02-A000	B	COVER SHEET
FLOODING		
PS02-K000	B	CATCHMENT PLAN
PS02-K100	B	1% AEP CRITICAL STORM DURATION EXISTING CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS02-K101	B	1% AEP CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)
PS02-K102	B	1% AEP CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS02-K103	B	1% AEP CRITICAL STORM DURATION EXISTING CONDITION FLOOD HAZARD CATEGORIES
PS02-K110	B	PMF CRITICAL STORM DURATION EXISTING CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS02-K111	B	PMF CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)
PS01-K112	B	PMF CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS01-K113	B	PMF CRITICAL STORM DURATION EXISTING CONDITION FLOOD HAZARD CATEGORIES
PS01-K200	B	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS01-K201	B	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)
PS01-K202	B	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS01-K203	B	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION FLOOD HAZARD CATEGORIES
PS01-K210	B	PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS01-K211	B	PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)
PS01-K212	B	PMF CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS01-K213	B	PMF CRITICAL STORM DURATION PROPOSED CONDITION FLOOD HAZARD CATEGORIES
PS01-K300	B	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL AFFLUX (m)
PS01-K310	B	PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL AFFLUX (m)
PS01-K311	B	PMF CRITICAL STORM DURATION PROPOSED CONDITION VELOCITY IMPACT (m)

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div><div></div><div></div><div></div></div><div><div>m</div><div>artens</div><div>& Associates Pty Ltd</div></div><div>Consulting Engineers Environment Water Geotechnical Civil</div></div>	DRAWING TITLE				
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH		---	---	TH	LOTUS PROJECT MANAGEMENT PTY LTD		COVER SHEET				
A	INITIAL RELEASE	25/03/2020	RK	PD									PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
													P1907336	PS02	R02	PS02-A000	B
								DISCLAIMER & COPYRIGHT		PROJECT NAME/PLANSET TITLE							
								This plan must not be used for construction unless signed as approved by principal certifying authority.		ENGINEERING SERVICES FOR DA							
								All measurements in millimetres unless otherwise specified.		FLOOD ASSESSMENT							
								This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd.		1129-1131 PITTWATER ROAD, COLLAROY, NSW							
								(C) Copyright Martens & Associates Pty Ltd		LOT 4 DP 7445 AND LOT 1 DP 859613							
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												DRAWING ID: P1907336-PS02-R02-A000					



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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 40 80 120 160 200 240 280 320 360 400
A1 (A3) 1:4,000 (1:8,000) METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613



Consulting Engineers
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Water
Geotechnical
Civil

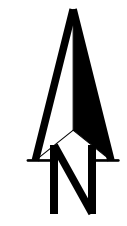
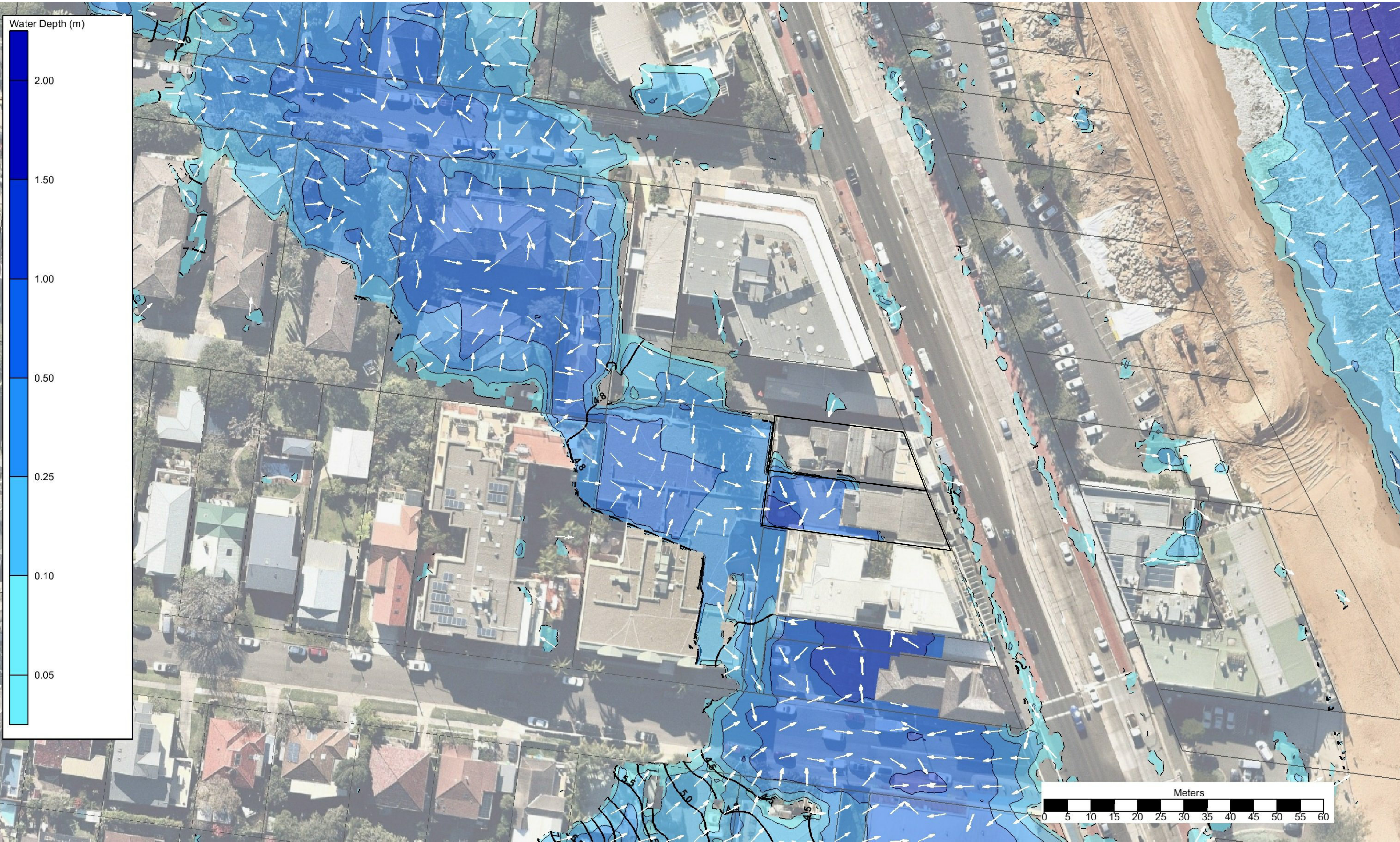
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DRAWING TITLE				
CATCHMENT PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K000	B

PRINTED: 11:55 AM 04/04/2020

A1 / A3 LANDSCAPE (A1Lc_v02.0.01)

DRAWING ID: P1907336-PS02-R02-K000 0 10 20 30 40 50 60 70 80 90 100



KEY

SITE BOUNDARY

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID
MGA
DATUM
mAHD
PROJECT MANAGER
TH
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ENGINEERING SERVICES FOR DA
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LOT 4 DP 7445 AND LOT 1 DP 859613

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DRAWING TITLE				
1% AEP CRITICAL STORM DURATION EXISTING CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K100	B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

PRINTED: 11/04/2020 11:00:00 AM
USER: R1907336-PS02-K100


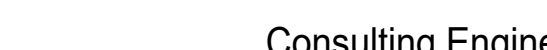
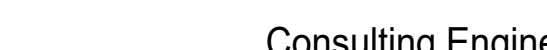
A1 / A3 LANDSCAPE (A1L_C_v02.0.01)

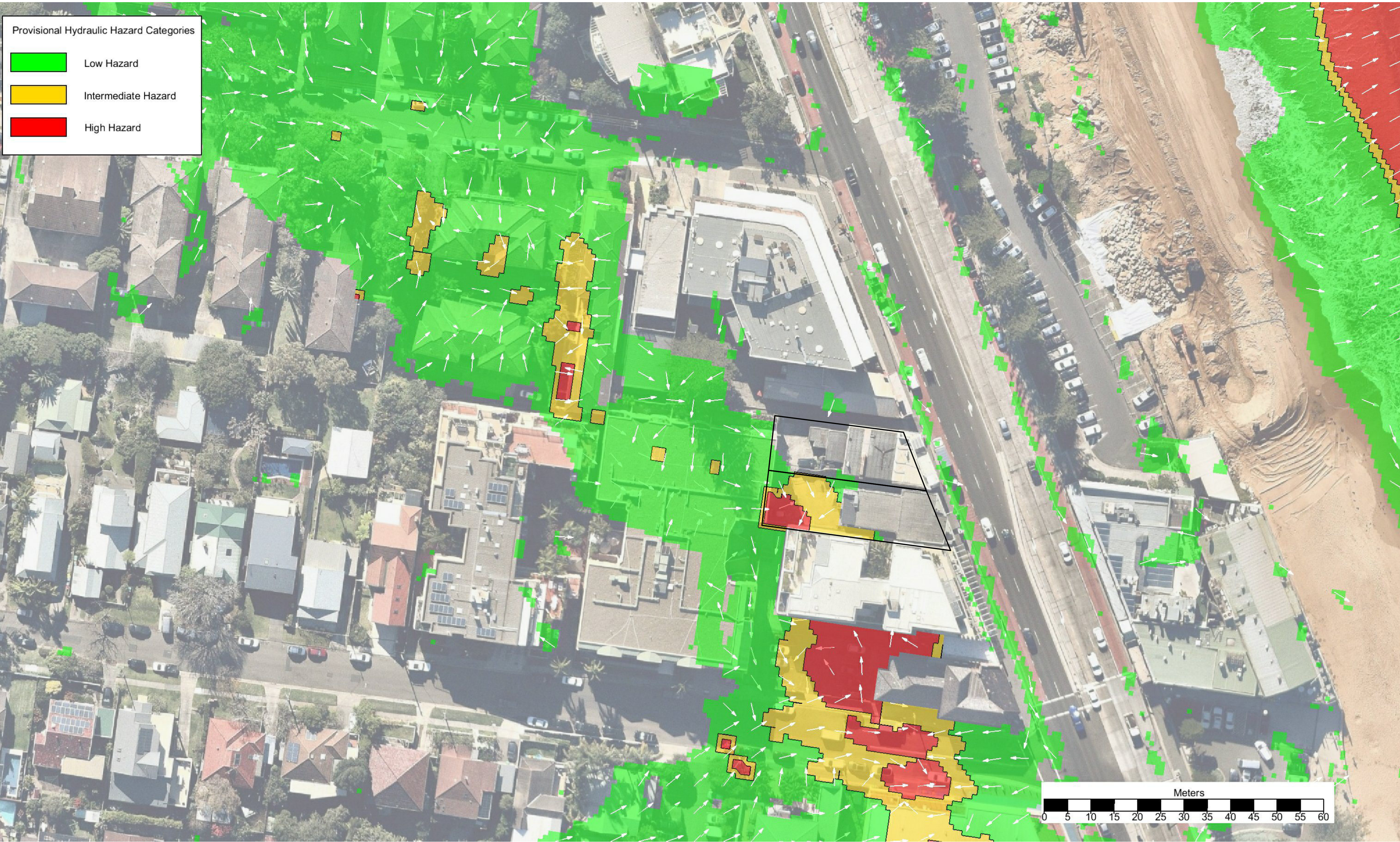
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B	CHECKED AND APPROVED		01/04/2020	RK	PD	PD/SL	TH		MGA	mAHD	TH	LOTUS PROJECT MANAGEMENT PTY LTD			LOTUS PROJECT MANAGEMENT PTY LTD				
A	INITIAL RELEASE		25/03/2020	RK	PD							ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT	 Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au	PROJECT NO. P1907336	PLANSET NO. PS02	RELEASE NO. R02	DRAWING NO. PS02-K101	REVISION B	
												DISCLAIMER & COPYRIGHT 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							PROJECT NAME/PLANSET TITLE ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT 1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613
A1 / A3 LANDSCAPE [A1LC_v02.0.0]																			



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

KEY

SITE BOUNDARY

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613

	Consulting Engineers	
	Environment Water Geotechnical Civil	
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au		

DRAWING TITLE				
1% AEP CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K102	B

PRINTED: 11:58 AM 01/04/2020

A1 / A3 LANDSCAPE (A1L_C_02 0.01)

DRAWING ID: P1907336-PS02-R02-K102



NOTES:
- FLOOD HAZARD BASED ON AUSTRALIAN INSTITUTE FOR DISASTER RESILIENCE (2014) HAZARD CURVES

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SITE BOUNDARY

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
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A1 (A3) 1:500 (1:1,000) METRES

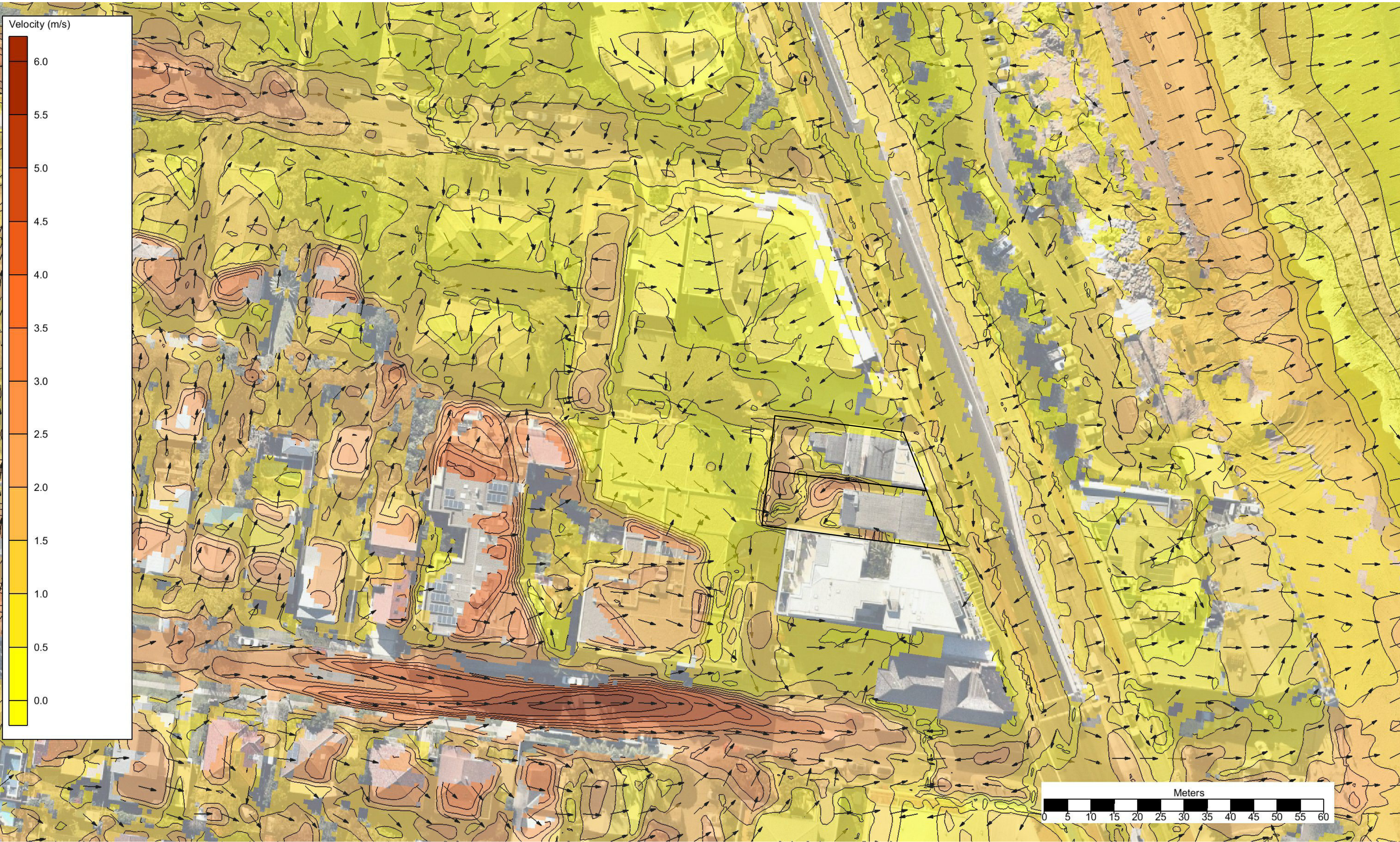
GRID
MGA
DATUM
mAHD
PROJECT MANAGER
TH
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ENGINEERING SERVICES FOR DA
FLOOD ASSESSMENT
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LOT 4 DP 7445 AND LOT 1 DP 859613

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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE
1% AEP CRITICAL STORM DURATION
EXISTING CONDITION
FLOOD HAZARD CATEGORIES
PROJECT NO.
P1907336
PLANSET NO.
PS02
RELEASE NO.
R02
DRAWING NO.
PS02-K103
REVISION
B

DRAWING ID: P1907336-PS02-R02-K103



KEY

SITE BOUNDARY

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID
MGA

DATUM
mAHD

PROJECT MANAGER
TH

CLIENT
LOTUS PROJECT MANAGEMENT PTY LTD

PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA
FLOOD ASSESSMENT

1129-1131 PITTWATER ROAD, COLLARARY, NSW
LOT 4 DP 7445 AND LOT 1 DP 859613

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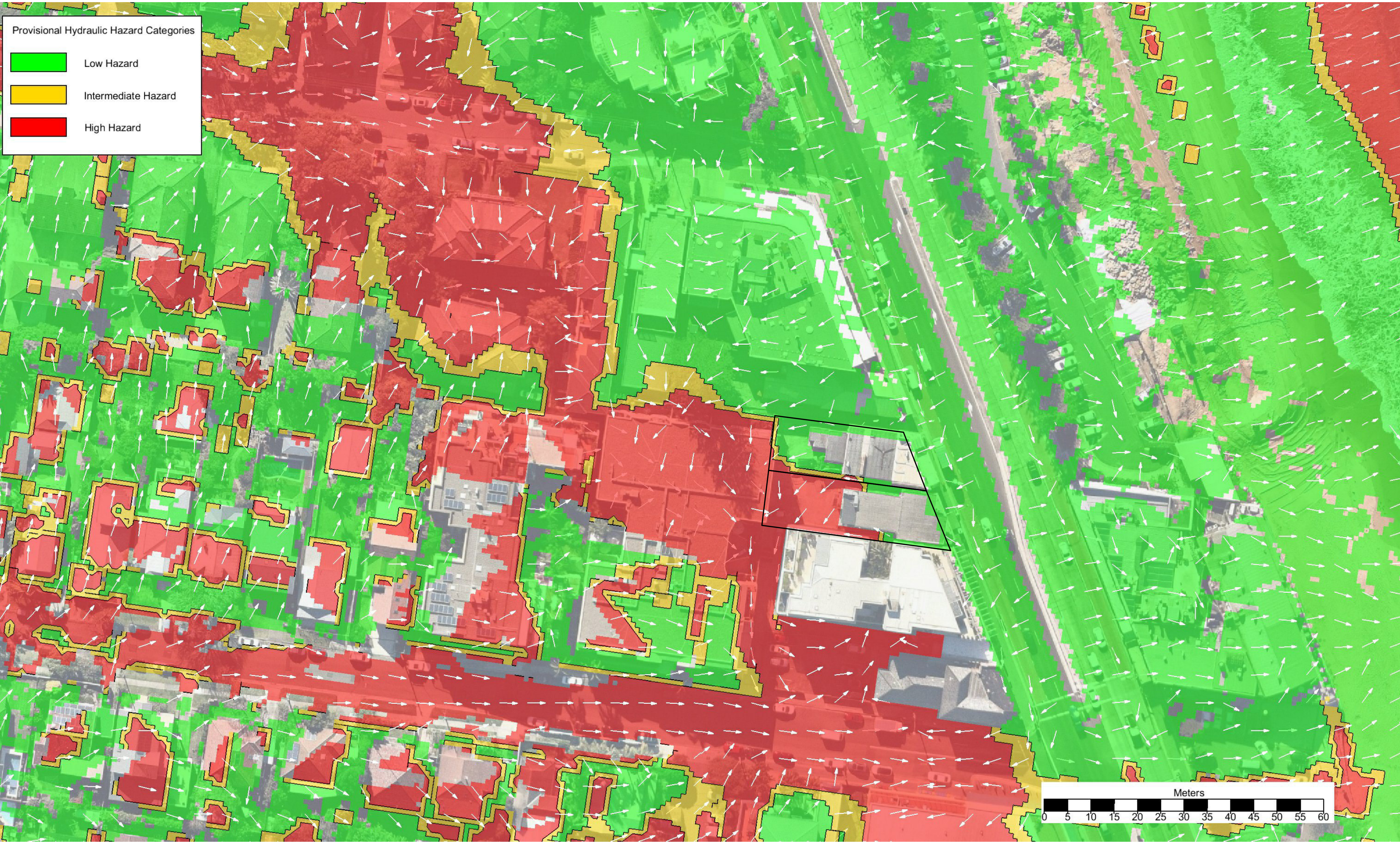


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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
PMF CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K111	B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION



Provisional Hydraulic Hazard Categories

Low Hazard
Intermediate Hazard
High Hazard

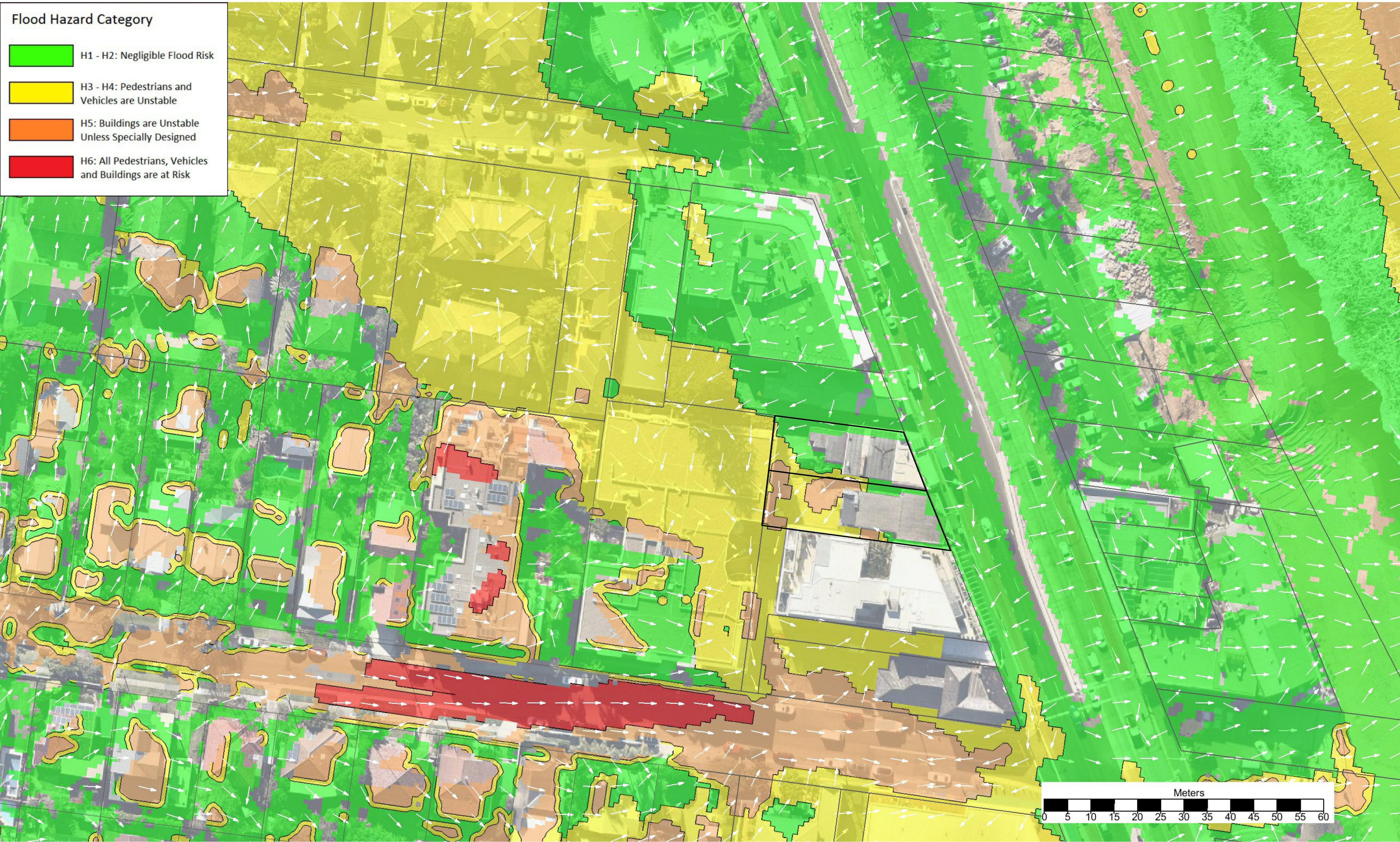
NOTES:
- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES.

KEY

SITE BOUNDARY

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div><div></div></div><div>martens & Associates Pty Ltd</div></div>	Consulting Engineers Environment Water Geotechnical Civil	DRAWING TITLE				
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH	0 5 10 15 20 25 30 35 40 45 50 A1 (A3) 1:500 (1:1,000)	MGA	mAHD	TH	LOTUS PROJECT MANAGEMENT PTY LTD			PMF CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES				
A	INITIAL RELEASE	25/03/2020	RK	PD							PROJECT NAME/PLANSET TITLE			PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
											ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT			P1907336	PS02	R02	PS02-K112	B
											1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613			Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au				
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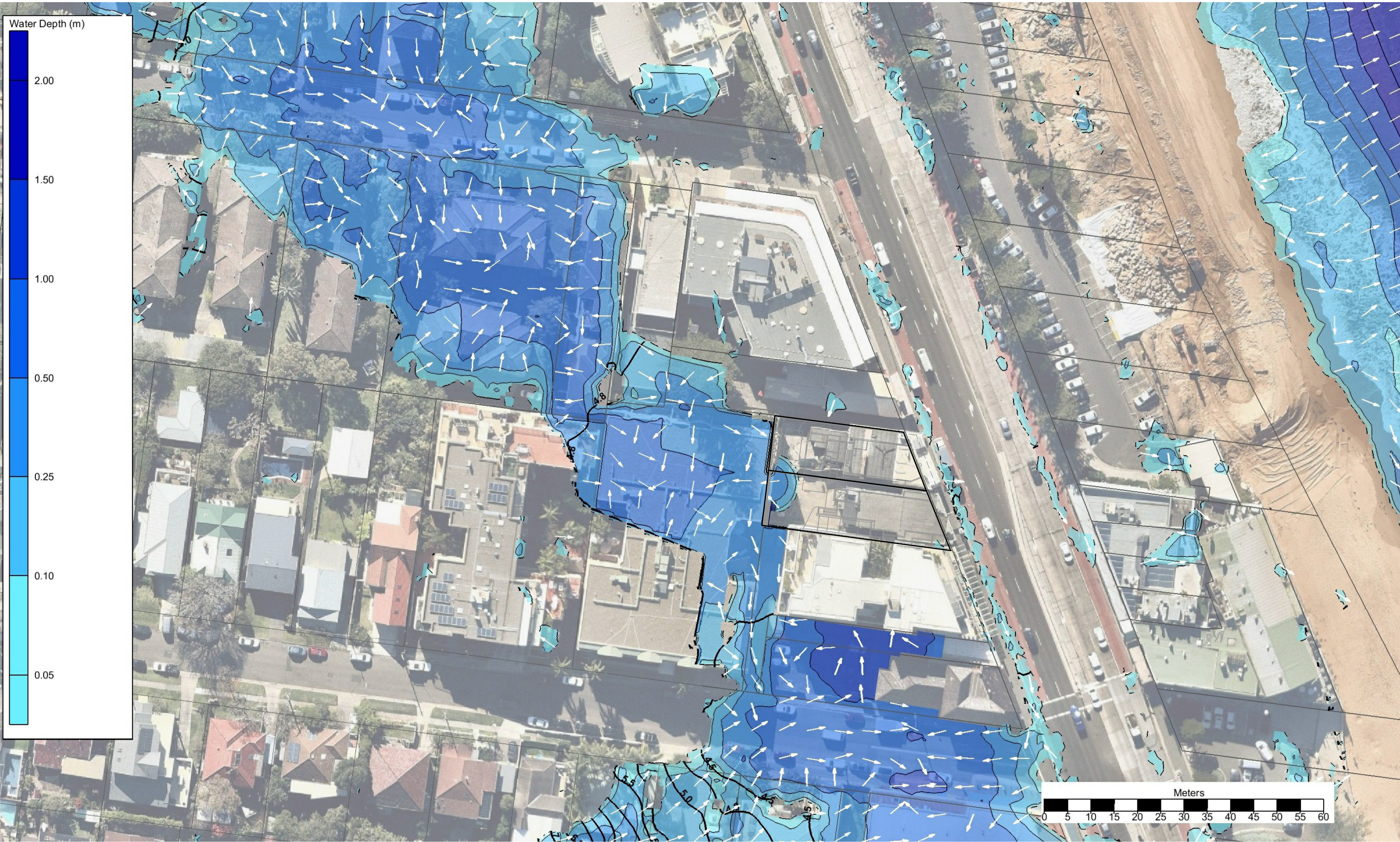
NOTES:
- FLOOD HAZARD BASED ON AUSTRALIAN INSTITUTE FOR DISASTER RESILIENCE (2014) HAZARD CURVES

KEY

SITE BOUNDARY

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div>Consulting Engineers</div>		DRAWING TITLE				
B	CHECKED AND APPROVED	01/04/2020	RK	PD	CHECKED	APPRVD	0 5 10 15 20 25 30 35 40 45 50 A1 (A3) 1:500 (1:1,000)	MGA	mAHD	TH	LOTUS PROJECT MANAGEMENT PTY LTD							
A	INITIAL RELEASE	25/03/2020	RK	PD	PD/SL	TH						PROJECT NAME/PLANSET TITLE		PMF CRITICAL STORM DURATION EXISTING CONDITION FLOOD HAZARD CATEGORIES				
								DISCLAIMER & COPYRIGHT 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				ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT		Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au				
								1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613						PROJECT NO. P1907336	PLANSET NO. PS02	RELEASE NO. R02	DRAWING NO. PS02-K113	REVISION B
A1 / A3 LANDSCAPE (A1LC_v02.0.01)							DRAWING ID: P1907336-PS02-R02-K113											



KEY

SITE BOUNDARY —————

PROPOSED LOT LAYOUT - - - - -

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE

0 5 10 15 20 25 30 35 40 45 50

A1 (A3) 1:500 (1:1,000) METRES

GRID

MGA

DATUM

mAHD

PROJECT MANAGER

TH

CLIENT

LOTUS PROJECT MANAGEMENT PTY LTD

PROJECT NAME/PLANSET TITLE

ENGINEERING SERVICES FOR DA

FLOOD ASSESSMENT

1129-1131 PITTWATER ROAD, COLLAROY, NSW

LOT 4 DP 7445 AND LOT 1 DP 859613

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DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K200	B

PRINTED: 11/04/2020 11:00:00 AM

A1 / A3 LANDSCAPE (A1L_C_v02.0.01)

DRAWING ID: P1907336-PS02-R02-K200



KEY	
SITE BOUNDARY	—————
PROPOSED LOT LAYOUT	-----

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID
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DATUM
mAHD
PROJECT MANAGER
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LOT 4 DP 7445 AND LOT 1 DP 859613

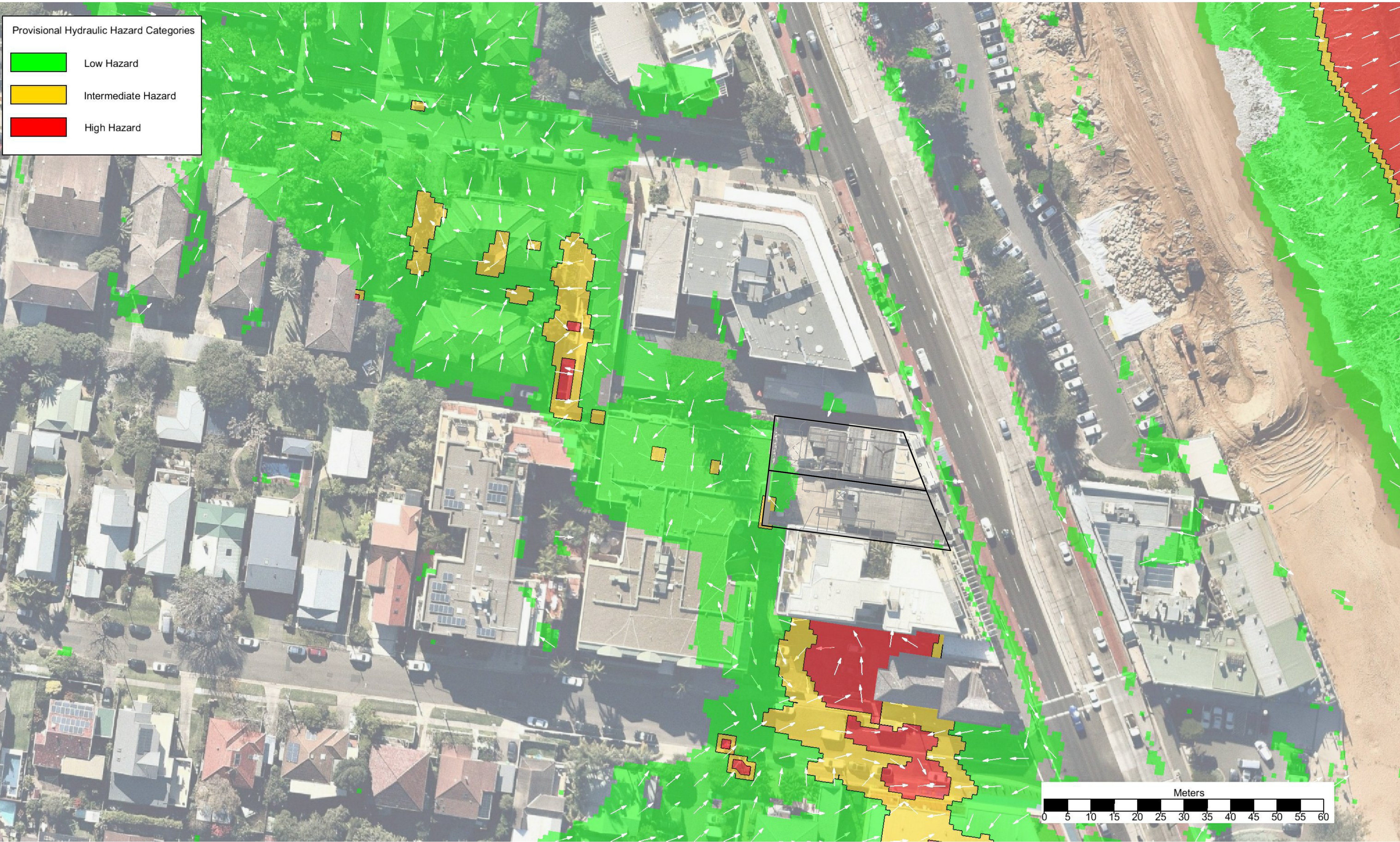
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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)				
PROJECT NO. P1907336	PLANSET NO. PS02	RELEASE NO. R02	DRAWING NO. PS02-K201	REVISION B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

PRINTED: 11/04/2020 11:00:00 AM
PLOT: A1 / A3 LANDSCAPE (A1L_C_02.0.01)

DRAWING ID: P1907336-PS02-R02-K201



KEY

SITE BOUNDARY

PROPOSED LOT LAYOUT

NOTES:

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

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

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A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE

0 5 10 15 20 25 30 35 40 45 50

A1 (A3) 1:500 (1:1,000) METRES

GRID

MGA

DATUM

mAHD

PROJECT MANAGER

TH

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PROJECT NAME/PLANSET TITLE

ENGINEERING SERVICES FOR DA

FLOOD ASSESSMENT

1129-1131 PITTWATER ROAD, COLLAROY, NSW

LOT 4 DP 7445 AND LOT 1 DP 859613

Consulting Engineers

Environment

Water

Geotechnical

Civil

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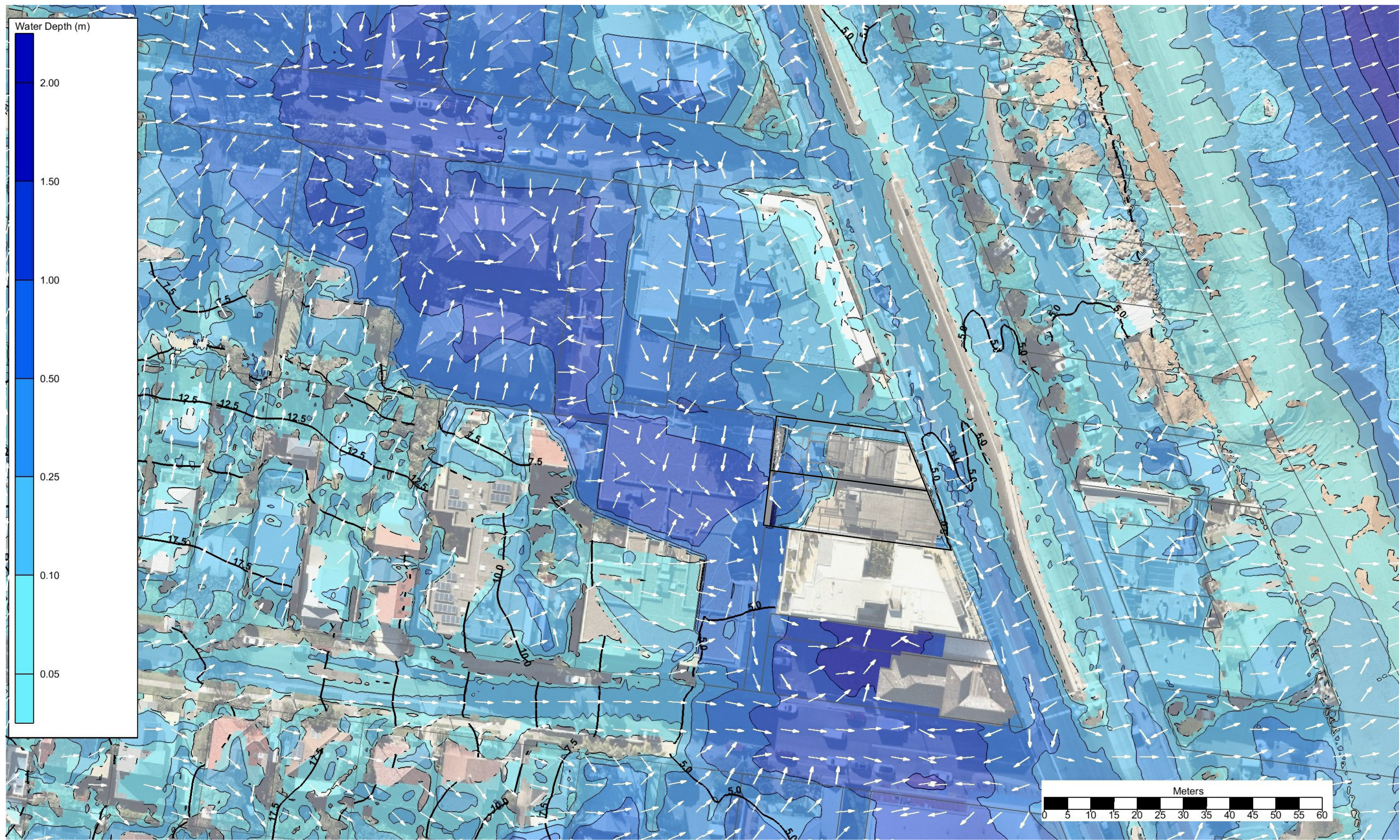
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DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K202	B

DRAWING ID: P1907336-PS02-R02-K202

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

[illegible]



KEY

SITE BOUNDARY

PROPOSED LOT LAYOUT

PRINTED: 11/03/2024 11:00:00 AM

A1 / A3 LANDSCAPE (A1L_C_v02.0.01)

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000)
METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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CLIENT
LOTUS PROJECT MANAGEMENT PTY LTD
PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613

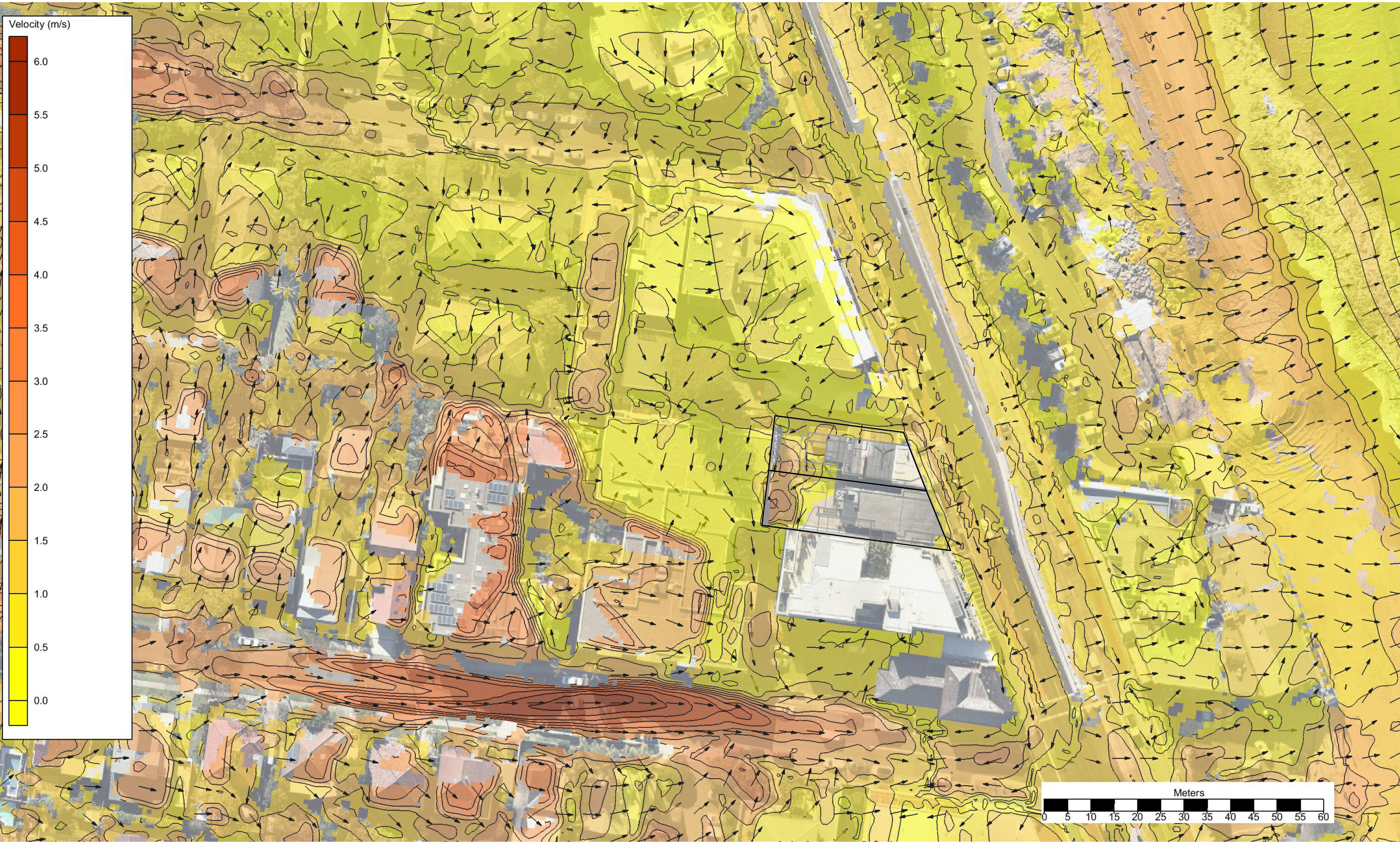
	Consulting Engineers	
	Environment Water Geotechnical Civil	
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au		

DRAWING TITLE				
PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K210	B

DRAWING ID: P1907336-PS02-R02-K210

0 5 10 15 20 25 30 35 40 45 50 55 60

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION



KEY	
SITE BOUNDARY	—————
PROPOSED LOT LAYOUT	-----

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID
MGA
DATUM
mAHD
PROJECT MANAGER
TH
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PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA
FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLARARY, NSW
LOT 4 DP 7445 AND LOT 1 DP 859613

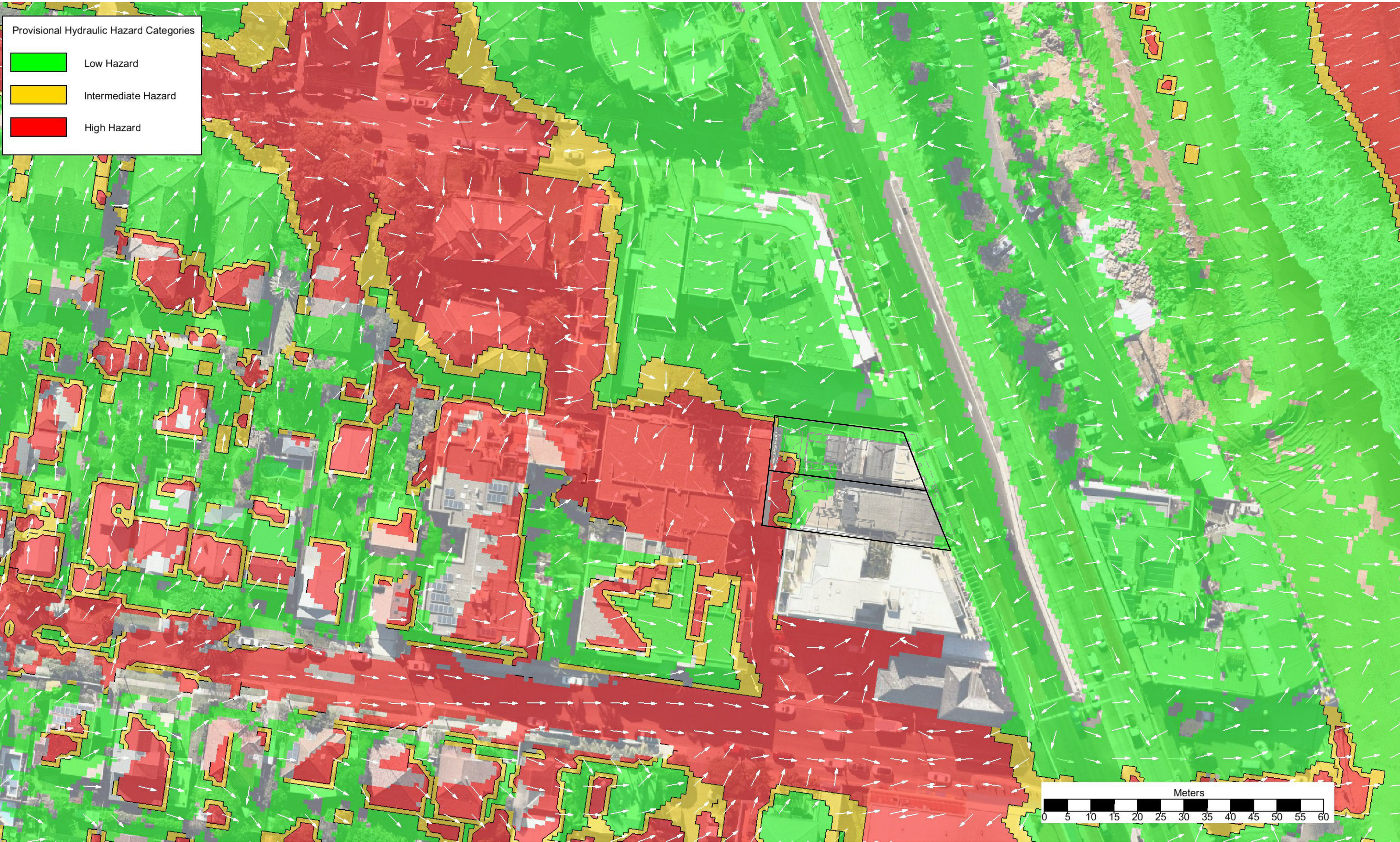
martens
& Associates Pty Ltd
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Environment
Water
Geotechnical
Civil
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)				
PROJECT NO. P1907336	PLANSET NO. PS02	RELEASE NO. R02	DRAWING NO. PS02-K211	REVISION B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

PRINTED: 11/04/2020 10:00:00 AM
FILE: A1 / A3 LANDSCAPE (A1L_C_v02.0.01)

DRAWING ID: P1907336-PS02-R02-K211



KEY

SITE BOUNDARY

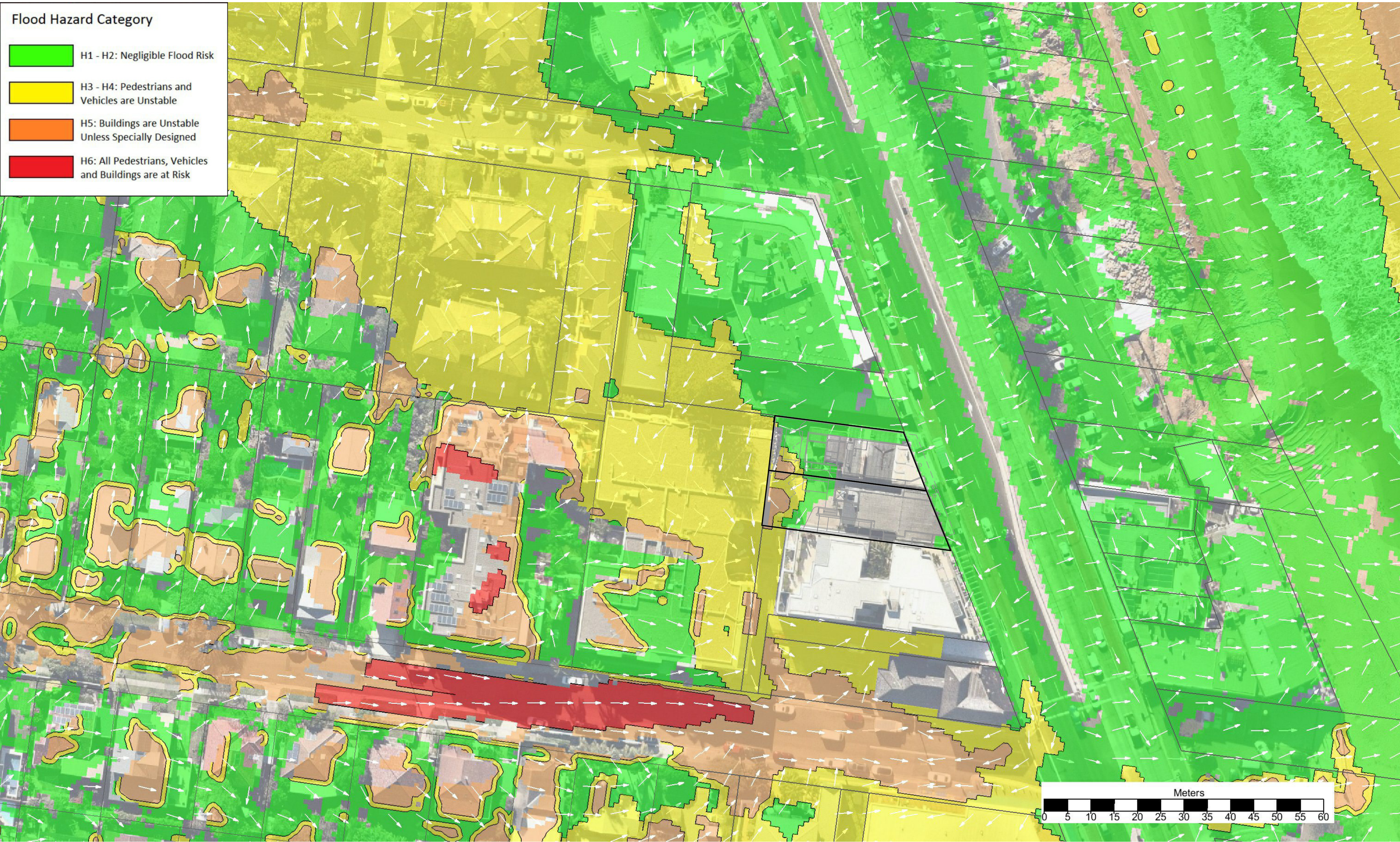
PROPOSED LOT LAYOUT

NOTES:

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

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

REV		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	<div>SCALE</div> <div><div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div><div>25</div><div>30</div><div>35</div><div>40</div><div>45</div><div>50</div></div><div>A1 (A3) 1:500 (1:1,000)</div></div> <div>METRES</div>	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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KEY

SITE BOUNDARY

PROPOSED LOT LAYOUT

NOTES:

- FLOOD HAZARD BASED ON AUSTRALIAN INSTITUTE FOR DISASTER RESILIENCE (2014) HAZARD CURVES

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID
MGA
DATUM
mAHD
PROJECT MANAGER
TH
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CLIENT
LOTUS PROJECT MANAGEMENT PTY LTD
PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA
FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLAROY, NSW
LOT 4 DP 7445 AND LOT 1 DP 859613

Consulting Engineers
martens & Associates Pty Ltd
Environment
Water
Geotechnical
Civil
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE
PMF CRITICAL STORM DURATION
PROPOSED CONDITION
FLOOD HAZARD CATEGORIES
PROJECT NO.
P1907336
PLANSET NO.
PS02
RELEASE NO.
R02
DRAWING NO.
PS02-K213
REVISION
B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION



KEY

- SITE BOUNDARY —————
- PROPOSED LOT LAYOUT - - - - -

NOTES:

- AREAS COLOURED WHITE REPRESENT NEGLIGIBLE CHANGE.
- AREAS COLOURED BLUE REPRESENT WATER LEVEL REDUCTION.
- AREAS COLOURED YELLOW / RED REPRESENT WATER LEVEL INCREASE.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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SCALE

0 5 10 15 20 25 30 35 40 45 50

A1 (A3) 1:500 (1:1,000) METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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CLIENT	LOTUS PROJECT MANAGEMENT PTY LTD
PROJECT NAME/PLANSET TITLE	ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613	

	Consulting Engineers	
	Environment	Water
	Geotechnical	Civil
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au		

DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL AFFLUX (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K300	B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

PRINTED: 11/04/2020 11:00:00 AM

A1 / A3 LANDSCAPE (A1L_C_v02.0.01)

DRAWING ID: P1907336-PS02-R02-K300



KEY

- SITE BOUNDARY
- PROPOSED LOT LAYOUT

NOTES:

- AREAS COLOURED WHITE REPRESENT NEGLIGIBLE CHANGE.
- AREAS COLOURED BLUE REPRESENT WATER LEVEL REDUCTION.
- AREAS COLOURED YELLOW / RED REPRESENT WATER LEVEL INCREASE.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE

0 5 10 15 20 25 30 35 40 45 50

A1 (A3) 1:500 (1:1,000)

METRES

GRID

MGA

DATUM

mAHD

PROJECT MANAGER

TH

CLIENT

LOTUS PROJECT MANAGEMENT PTY LTD

PROJECT NAME/PLANSET TITLE

ENGINEERING SERVICES FOR DA

FLOOD ASSESSMENT

1129-1131 PITTWATER ROAD, COLLAROY, NSW

LOT 4 DP 7445 AND LOT 1 DP 859613

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Civil

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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL AFFLUX (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K310	B

DRAWING ID: P1907336-PS02-R02-K310



KEY

SITE BOUNDARY

PROPOSED LOT LAYOUT

NOTES:

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

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	CHECKED AND APPROVED	01/04/2020	RK	PD	PD/SL	TH
A	INITIAL RELEASE	25/03/2020	RK	PD		

SCALE
0 5 10 15 20 25 30 35 40 45 50
A1 (A3) 1:500 (1:1,000) METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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CLIENT
LOTUS PROJECT MANAGEMENT PTY LTD
PROJECT NAME/PLANSET TITLE
ENGINEERING SERVICES FOR DA FLOOD ASSESSMENT
1129-1131 PITTWATER ROAD, COLLAROY, NSW LOT 4 DP 7445 AND LOT 1 DP 859613

	Consulting Engineers		
	Environment	Water	Geotechnical Civil
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au			

DRAWING TITLE				
PMF CRITICAL STORM DURATION PROPOSED CONDITION VELOCITY IMPACT (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907336	PS02	R02	PS02-K311	B

DEVELOPMENT APPLICATION - NOT FOR CONSTRUCTION

PRINTED: 11/04/2020 11:00:00 AM
A1 / A3 LANDSCAPE (A1L_C_02.0.01)

DRAWING ID: P1907336-PS02-R02-K311