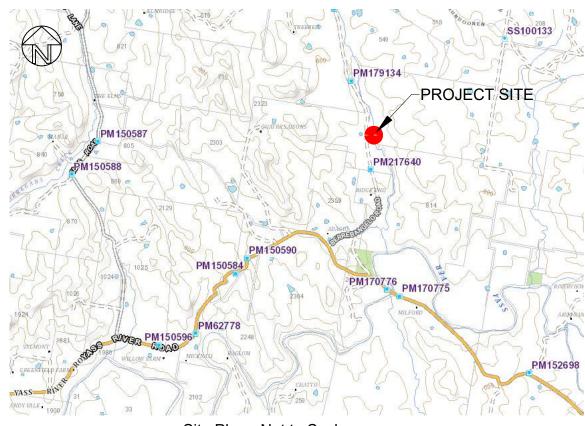
## CAMILLE BATEMAN HICKEYS CREEK CROSSING 739 BERREBANGELO ROAD

Genium Project No. 23036





## Site Plan - Not to Scale

## **DRAWING LIST**

22036 - 010 Cover Sheet, Drawing List, and Locality Plan

22036 - 050 General Notes and Existing Site

22036 - 100 General Arrangement

22036 - 200 Culvert Details

22036 - 300 Access Road Cross Sections and Standard Details

22036 - 1000 Safety in Design Register



Rev	Date	Description
Α	02/04/2024	Inital Issue

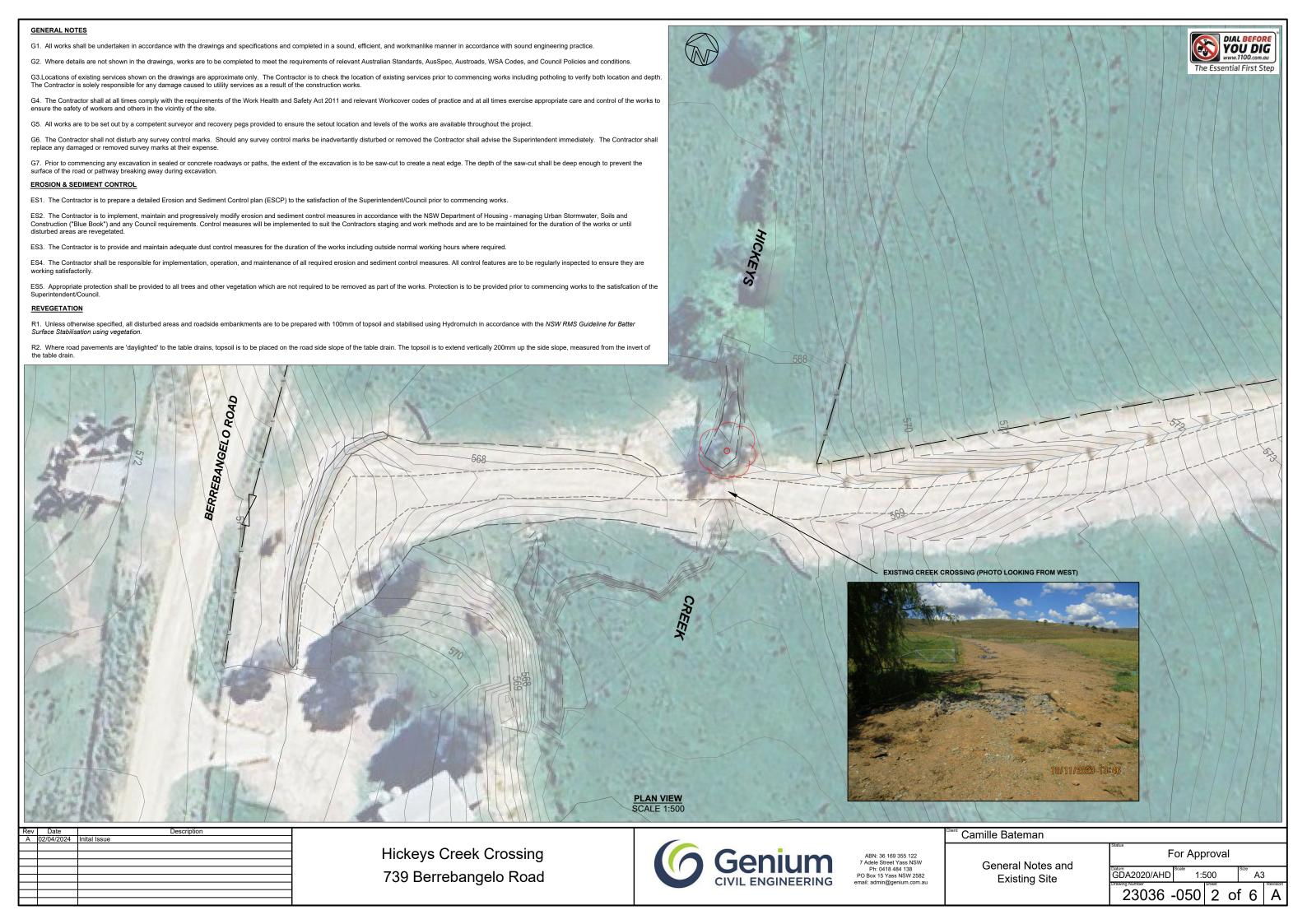
Hickeys Creek Crossing 739 Berrebangelo Road

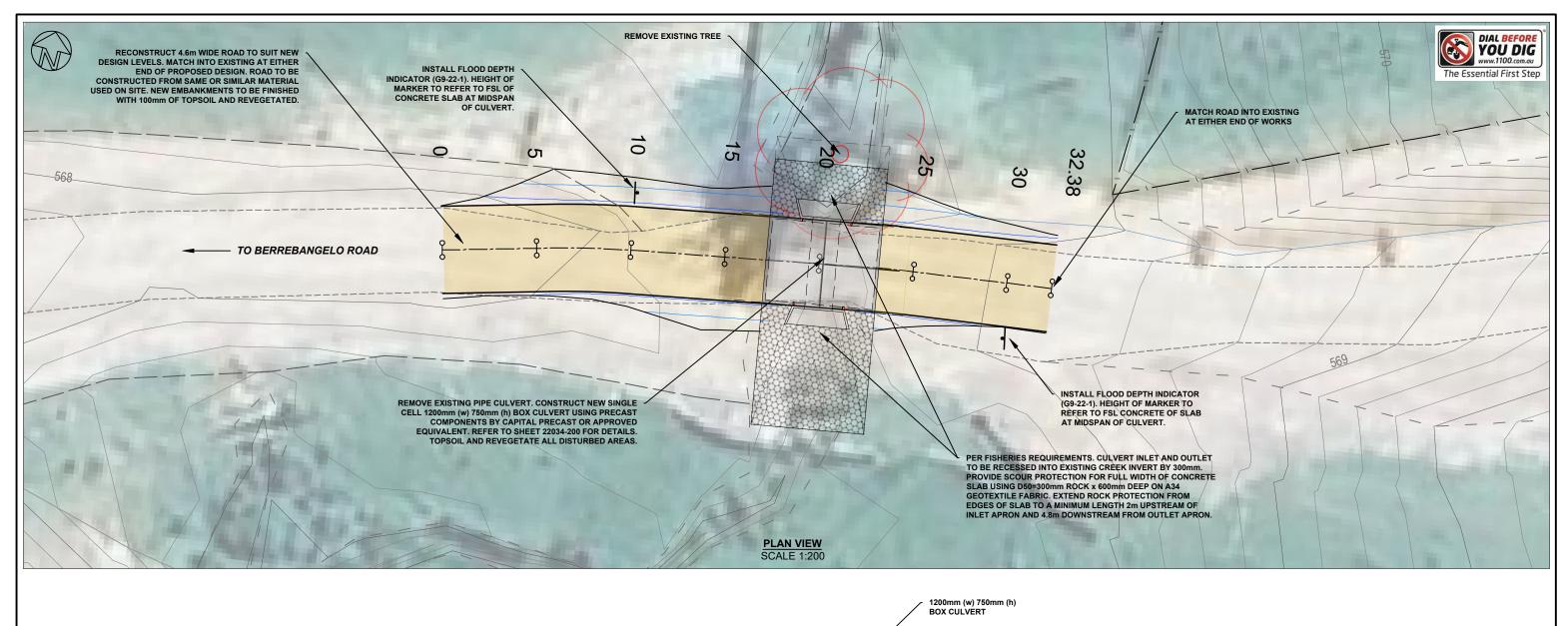


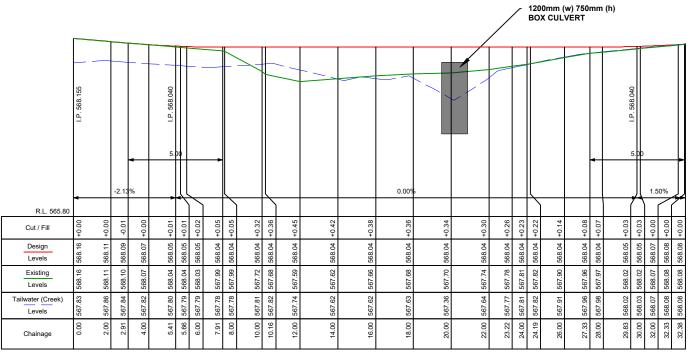
Cover Sheet, Drawing List and
Locality Plan

Camille Bateman

	Status	or Approval		
b	GDA2020/AHD		Size A3	3
	23036 -	-010 1 o	f 6	A







LONGITUDINAL SECTION - ACCESS ROAD SCALE 1:200H - 1:50V

Rev Date Description

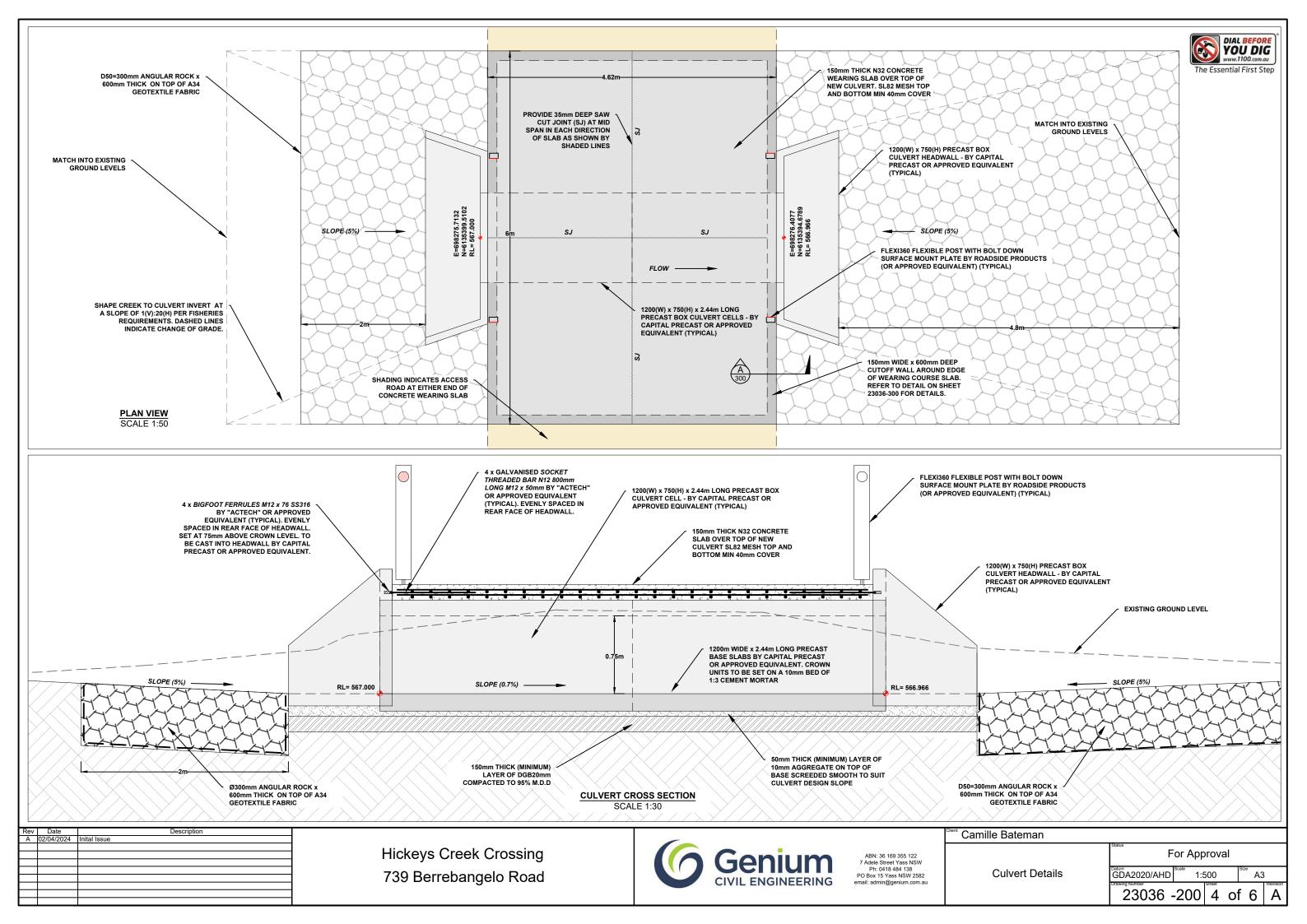
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Hickeys Creek Crossing 739 Berrebangelo Road

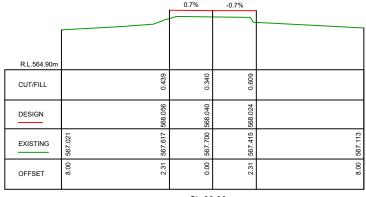


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<sup>ռե</sup> Camille Bateman							
	For Approval						
General Arrangement	GDA2020/AHD Scale 1:500 Size A3						
	23036 -100 3 of 6 A						
	<del>2</del> 0000 100 0 01 0 7						







Ch 20.00 m

		1 in 4	0.7%	-0.7%	1 in 4	
R.L.565.50m						
CUT/FILL	S	0.364	0.396	0.425	-0.005	
DESIGN	102 Z33	568.056	568.040	568.024	567.632	
EXISTING	567.763	567.692	567.644	567.599	567.638	567.619
OFFSET	8.00	2.31	0.00	2.31	3.88	8.00

				0.7%	-0.7%		
R.L.565.70m							
CUT/FILL		0.000	0.099	0.028	0.008	0.000	
DESIGN		567.865	568.067	568.051	568.035	568.027	
EXISTING	567.800	567.865	567.967	568.022	568.027	568.027	789'.282
OFFSET	8.00	3.12	2.31	0.00	2.31	2.34	8.00

Ch 30.00 m

Ch 15.00 m

			1 in 4	0.7%	-0.7%	<u> </u>	
R.L.565.60n	ı						
CUT/FILL		0.000	0.411	0.323	0.200	0.000	
DESIGN		567.667	568.056	568.040	568.024	567.855	
EXISTING	567.730	567.667	567.645	567.717	567.823	567.855	567.590
OFFSET	8.00	3.86	2.31	0.00	2.31	2.99	8.00

Ch 10.00 m

Ch 5.00 m

		1 in 4	0.7%	-0.7%	_	
R.L.565.60m						
CUT/FILL	0.000	0.248	0.187	0.163	-0.001	
DESIGN	567.622	568.056	568.040	568.024	567.862	
EXISTING	567.740	567.808	567.853	567.861	567.863	567.668
OFFSET	8.00	2.31	00:00	2.31	2.96	8.00

Ch 25.00 m

RL.565.50m

CUT/FILL

DESIGN

EXISTING

0.70, 0.

		0.7%	-0.7%	
R.L.564.90m				
CUT/FILL	0.444	0.337	0.629	
DESIGN	928.056	568.040	568.024	
EXISTING	567.009	567.703	567.395	567.125
OFFSET	8.00	0.00	2.31	8.00

Ch 20.20 m

ACCESS ROAD CROSS SECTION

SCALE 1:200H 1:200V

Rev	Date	Description
Α	02/04/2024	Inital Issue

Hickeys Creek Crossing 739 Berrebangelo Road



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Access Road Cross Sections
and Standard Details

<sup>t</sup> Camille Bateman

	For Approval									
•	GDA2020/AHD	AS SI	HOWN	Size A3	3					
	23036 -	-300	5 o	f 6	A					

	<del>                                     </del>
150mm 32MPa CONCRETE REINFORCED WITH SL82 MESH ——— TOP AND BOTTOM	
	N12 BARS FIXED TO L-BARS AT 200 CENTRES
SUBGRADE OR SELECT ————————————————————————————————————	N12 L-BARS (450 x 450) AT 200 CENTRES
	D50=300mm ANGULAR ROCK x 600mm THICK ON TOP OF A34 GEOTEXTILE FABRIC AT NORTHERN AND SOUTHERN SIDES OF SLAB. ROAD CONSTRUCTION MATERIAL AT EASTERN AND WESTERN END OF SLAB.
	SECTION A CUT OFF WALL DETAIL SCALE 1:10

PAVEMENT - CONCRETE WEARING SLAB (OUTSIDE FOOTPRINT OF CULVERT UNITS) SCALE 1:10

150mm 32MPa CONCRETE

TOP AND BOTTOM

SUBGRADE OR SELECT FILL (CBR>8%), 95% M.D.D

REINFORCED WITH SL82 MESH



SAFETY IN DESIGN REGISTER								
Project No.	23036	Revision No.	1	Date:	March 2024			
Project	Hickeys Creek Crossing - 739 Berrebangelo Road	Client:	Camille Bateman					

			Risk Assessment		nt			Residual Assessment			
Reference	Element	Risk	Likelihood	Consequence	Risk rating	Controls	Responsible Person	Likelihood	Consequence	Risk rating	
1	Vertical Geometry	Vehicle Accident due to travelling at a speed above the design alignment speed.	Rare	Serious	L	Road approaches are of very low standard and as such speed not likely to be an issues. Design of culvert undertaken for low speed use.	GEN	Rare	Serious	L	
2	Horizontal Gemoetry	Vehicle Accident due to travelling at a speed above the design alignment speed.	Rare	Serious	Ĕ	Road approaches are of very low standard and as such speed not likely to be an issues. Design of culvert undertaken for low speed use.	GEN	Rare	Serious	L	
3	Causeway Edge	Vehicle Accident due to vehicles leaving road and not being able to recover due to edge of culvert/causeway.	Possible	Serious	M	Flexible guide posts specified to delineate edge of causeway even during small overtopping events.	GEN	Rare	Serious	L	
4	Culverts and Roadways	Over topping of roads during rainfall events. Damage to Road Pavement and/or haz and to road users.	Frequent	Serious	Н	Culvert has been designed to be overtopped for rainfall events as frequent as a 12EY rainfall event. Flows depths are expected to be 32mm for 12 EY events, 92mm for 1EY events, 112mm for 50% AEP events, 202mm for 20% AEP events and 262mm for 10% AEP events. Subject to external factors (debris build up and access road integrity) the culvert should be trafficable for events up to a 10% AEP, although it will be flooded. Client confirmed that this is adequate. Concrete wearing surface, Flexible guideposts and Depth Markers to be installed to provide guidance on flow depths.	GEN	Unlikely	Moderate	L	
5	Culvert Inlet/Outlets	Scouring of Culvert Inlet/Outlets during rainfall events	Likely	Serious	Н	Concrete wearing surface, headwalls & cutoff walls designed to prevent scour of crossing. Scour protection upstream and downstream of causeway specified to prevent scouring of creek bed.	GEN	Unlikely	Moderate	L	
6	Roadside Embankments	Scouring of roadside embankments during rainfall events	Likely	Minor	М	Embankments designed to be revegetated in accordance with NSW RMS Guideline for Batter Surface Stabilisation using vegetation.	GEN	Unlikely	M inor	L	
7	Structural Adequacy of Road Pavement	Constructed pavement is structurally inadequate leading to premature failure	Possible	Major	Н	Design based on TMR QLD standard designs & Austroads Standards. Contractor to construct in accordance with relevant standards and foundation to be proof rolled to ensure adequate bearing capacity.	GEN CON	Rare	Serious	L	
8	Road Construction	Road not constructed in accordance with AusSpec standards	Possible	Serious	M	Reputable Contractor to be engaged to undertake works. Works to be overseen by a suitably qualified person.	DEV	Unlikely	Moderate	L	
9	Design V ehicle	Damage to road pavement or road surface as a result of use by oversized vehicle/s	Unlikely	Serious	M	Culverts to be designed for SM1600 loading. Headwalls and wearing slab designed for predominantly light vehicle use with occaisonal heavy vehicle use.	GEN	Rare	Moderate	L	

	Risk Evaluation Matrix									
	Risk Ratings:		Consequence							
	Very High High		Minor	Moderate	Serious	Major	Severe	Catastrophic		
	Medium Low		C6	C5	C4	C3	C2	C1		
	Frequent	L1	М	н	н	VH	VH	VH		
	Likely	L2	М	М	н	н	VH	VH		
Likelihood	Possible	L3	L	М	м	н	н	VH		
Likeli	Unlikely	L4	L	L	М	М	н	Ĥ		
	Rare	L5	L	L	L	М	М	н		
	Improbable	L6	L	L	L	L	м	М		

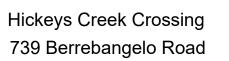
GEN = Genium

EV = Develope

CON = Contractor

COU = Council

Rev	Date	Description
Α	02/04/2024	Inital Issue





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<sup>ռե</sup> Camille Bateman					
	For Approval				
Safety in Design Register	GDA2020/AHD Scale N/A Size A3				
	23036 -1000 6 of 6 A				