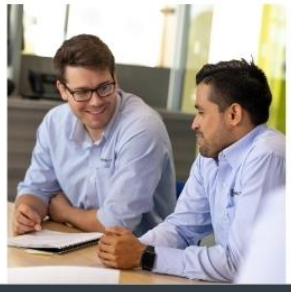
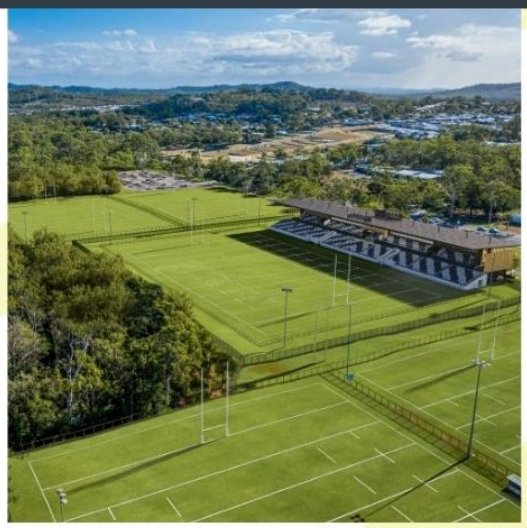
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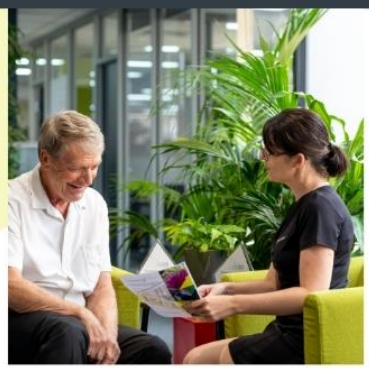




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Logan-Flagstone-Industrial
Hydraulic Impact Assessment

Client:	Roubaix Properties Pty Ltd
Project Number:	BE220566
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03	Further Response to Outstanding Matters Letter	15/06/2026	JM	SH

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Executive Summary

This updated Hydraulic Impact Assessment (HIA) has been prepared in response to the DEV2025/1676 Outstanding Matters Letter dated 6 May 2026 issued by Economic Development Queensland (EDQ). The report supports both existing applications DEV2025/1676 Reconfiguring a Lot and DEV2025/1587 Operational Work.

A local hydrology and hydraulic model was developed to assess potential flood impacts associated with the proposed development, with particular focus on events up to and including the 1% Annual Exceedance Probability (AEP) event and 1% AEP Climate Change event. The proposed future industrial collector road has been included in both the pre-development and post-development modelling scenarios to ensure the assessment appropriately reflects the ultimate planned road network condition.

The assessment also incorporated updates to Logan City Council's Regional Hydraulic TUFLOW Model, which was refined to more accurately represent current and approved development conditions within the surrounding catchment.

The local catchment modelling results indicate minor increases in flood levels of up to approximately 40 mm external to the site in the 1% AEP Climate Change event. These local afflux impacts are mainly confined to the environmental corridor west of the site, as identified in the North Maclean Context Plan, and do not occur within the Mount Lindesay Highway / State-controlled road corridor. The modelling also confirms that there is no increase in flood extent and no adverse impact to existing buildings or the State-controlled road corridor.

For the regional catchment, the current climate 1% AEP modelling indicates no afflux impact, as the subject site is not inundated under that event. Under the Climate Change year 2100 scenario, the regional modelling identifies a minor afflux of up to approximately 12 mm. This impact is minor, localised, and does not result in any adverse hydraulic impact to private land, existing buildings, future developable land, or the State-controlled road corridor.

Based on the updated hydraulic modelling outcomes, flood depths across the subject site in the 1% AEP Regional Climate Change event are below the threshold used to define the High Flood Risk Area under Logan City Council's flood mapping. Accordingly, the development footprint does not fall within the High Flood Risk Area as defined by the adopted mapping criteria. The updates to the regional model have significantly reduced flood depths over the subject site in the base case scenario, effectively removing the High Flood Risk Overlay mapping previously identified in Logan City Council Temporary Local Planning Instrument No. 1 / 2024.

The amended earthworks have also been revised to remove impacts over the State-controlled road corridor. The results demonstrate that the proposed development will not adversely impact the Mount Lindesay Highway / State-controlled road corridor from a hydraulic perspective and will not compromise the future development of Department of Transport and Main Road's protected planning area.

The reporting and modelling have been completed to address the relevant outcomes and requirements of the Economic Development Act 2012, Greater Flagstone Priority Development Area Development Scheme, State Planning Policy July 2017, Logan City Council Planning Scheme Version 9.2, Logan City Council Temporary Local Planning Instrument No. 1 / 2024, Queensland Urban Drainage Manual, and TMR's Road Planning and Design Manual.

Overall, the results demonstrate that the proposed development will not cause adverse flood impacts in either the local or regional flood events assessed and will not result in net material worsening to private land, future developable land, or the State-controlled road corridor.

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1. Introduction

Roubaix Properties Pty Ltd has commissioned Burchills Engineering Solutions (Burchills) to prepare a Hydraulic Impact Assessment (HIA) to support both existing applications DEV2025/1676 Reconfiguring a Lot & DEV2025/1587 Operational Work, to facilitate a 17-lot industrial subdivision, to Economic Development Queensland (EDQ). The proposed North MacLean Industrial development is located at Lot 7 & 8 on RP137101, encompassing the addresses 4745-4759 and 4761-4773 Mount Lindesay Highway, North MacLean.

1.1 Background

1.1.1 Regulatory Requirements and Technical Guidelines

The strategies proposed in this HIA have been developed to address requirements from The Greater Flagstone Priority Development Area (PDA), and have also been prepared in accordance with the following guidelines:

- Queensland Urban Drainage Manual (QUDM) Fourth Edition (IPWEAQ, 2017);
- Australian Rainfall & Runoff: A Guide to Flood Estimation (Ball J, 2024);
- Logan City Council Temporary Local Planning Instrument No 1. 2024

1.1.2 EDQ Context and Existing Development

The proposed development located within the Greater Flagstone Priority Development Area (PDA), North Maclean precinct and is zone for Industry and Business purposes. The PDA is administered by Economic Development Queensland (EDQ) As shown in Figure 1.1 below, there has been significant existing development within the broader Economic Development Queensland (EDQ) area, much of which has been approved prior to the endorsement of the current "Temporary Local Planning Instrument No. 1 2024 (TLPI) of the Local Government, Logan City Council.

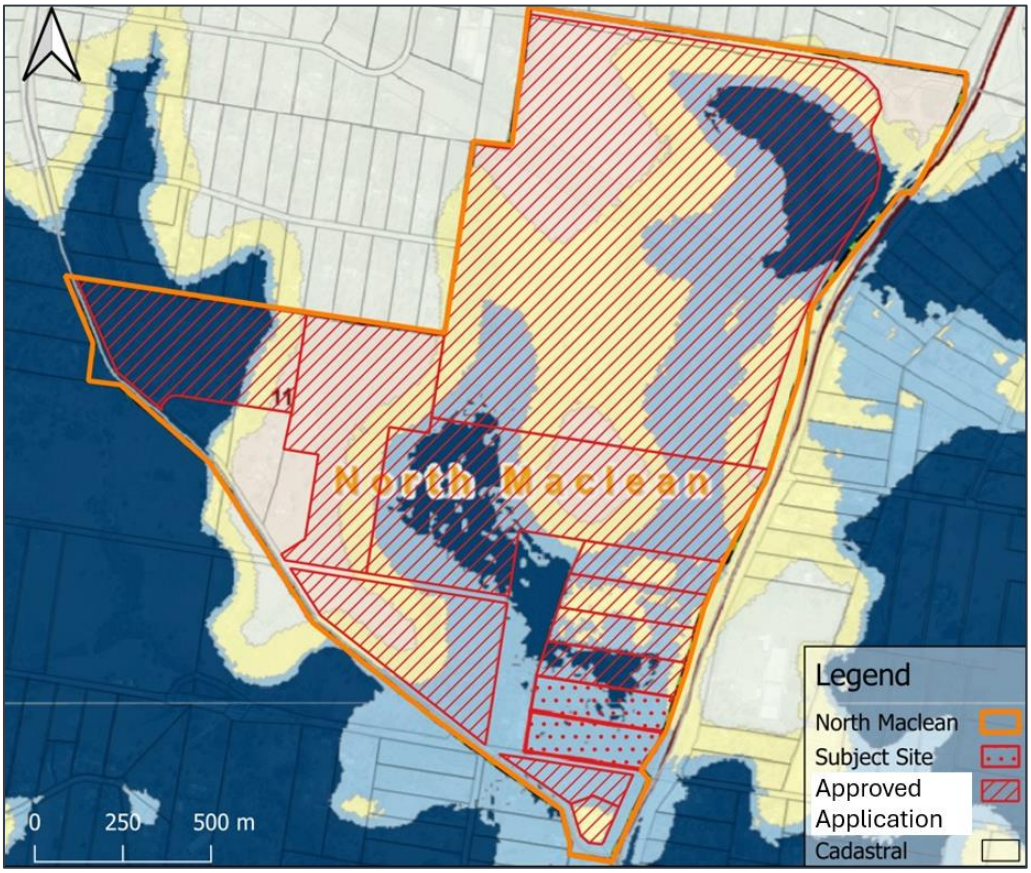


Figure 1.1 TLPI Overlay and Surrounding Approvals

These previous approvals have altered flood behaviour. Importantly, no prior developments within the PDA have undertaken flood storage balance assessments as these sites are not identified as being affected by flood within the Development Scheme.

Further to this it should be noted that Transport and Main Roads (TMR) completed the North Maclean safety improvements in 2020, no hydraulic impact assessment was undertaken or can be found for these works. Proposed swale drains along the highway frontage to alleviate ponding caused by the works have not been constructed.

In addition to the works already completed on the highway, TMR has a planned duplication of the highway in the planning phase for delivery. The "Chambers Flat Road to Greenbank Road" is to widen the highway from 4 to 6 lanes and upgrade drainage infrastructure.

1.2 Purpose

This updated report has been prepared to address an information request and outstanding matters letter issued by Economic Development Queensland for application DEV2025/1676*. The HIA is to support both existing applications DEV2025/1676 Reconfiguring a Lot & DEV2025/1587 Operational Work*

This report assessed the potential hydraulic impacts that may arise as a result of the proposed development. The objectives of this assessment are as follows:

- Demonstrate the proposed development does not cause any adverse hydraulic impacts external to the site in the 1% AEP Climate Change event as defined in the Temporary Local Planning Instrument No. 1 2024 (TLPI) of the Local Government, Logan City Council

1.3 Response to Outstanding Matters Letter– DEV2025/1676 RAL – 6/05/2026

Item	Response
2. Flooding and Stormwater	
a) Submit an amended Hydraulic Report for local and regional floods, including the hydrology and hydraulic modelling files, demonstrating no net material worsening on private land and the State-controlled road corridor for all flood events up to the 1% annual exceedance probability (AEP)	An amended Hydraulic Report has been prepared to assess both local and regional flood behaviour for all relevant flood events up to and including the 1% AEP event. The proposed industrial collector road has been incorporated into both the pre-development and post-development scenario modelling. This ensures that the hydraulic assessment appropriately represents the ultimate road network condition and that any potential impacts associated with the proposed road formation are accounted for in the flood modelling. The amended modelling demonstrates that the proposed development does not result in a net material worsening of flood levels, flood extents, velocities or flood hazard on or within the State-controlled road corridor for the assessed flood events up to the 1% AEP event. Hydrology and hydraulic modelling files have been provided with the amended Hydraulic Report to support EDQs review of the assessment.

b) Provide amended earthworks and stormwater plans/engineering drawings, certified by a RPEQ, demonstrating the proposal will not result in adverse flooding or stormwater impacts on private land and the Mount Lindesay Highway / State-controlled road corridor and does not compromise the future development of DTMR's protected planning area. The drawing is to include indicative drainage lines to the point of discharge, and any drainage easement that may be required.	Amended earthworks and stormwater plans have been prepared and are provided as part of the response material. The amended plans have been certified by a RPEQ. The earthworks design has been amended to remove any impacts over the State-controlled road corridor. The amended design also ensures that the proposed development does not result in adverse flooding or stormwater impacts on the Mount Lindesay Highway / State-controlled road corridor. The proposed industrial collector road has been included in both the pre-development and post-development hydraulic modelling scenarios. The modelling therefore accounts for the ultimate earthworks and road formation condition and confirms that the proposal will not result in a net material worsening of flood behaviour.

1.4 Response to Information Request and Outstanding Matters Letter– DEV2025/1676 RAL – 3/02/2025 – (Updated to be consistent with HIA-03 Results)

Item	Response
2. Flooding and Stormwater	
a) Submit a hydraulic report that:	
c) removes the development footprint from within the high flood risk area as identified within Logan City Council's flood mapping;	The High Flood Risk Area identified in Logan City Council's flood mapping corresponds to areas where flood depths exceed 0.5 m in the 1% AEP event. As part of this assessment, updates made to the Logan Albert River Regional Flood Study (2023) have reduced peak water depths over the site in the 1% AEP Climate Change event to less than 0.5 m which is below the threshold used to define the High Flood Risk Area under Logan City Council's flood hazard mapping. Accordingly, the development footprint does not meet the criteria for classification as High Flood Risk. Please refer to section 5.5 of this report which reports on updated existing scenario peak flood depths.
d) demonstrates no adverse afflux issues to upstream, downstream or adjacent properties;	Impacts in the Local and Regional flood event have been reported on in section 4.8 and 5.6 of this report. The impact assessment has only been provided for the 1% AEP Climate Change events at this given time. Generally, there is no increase in extent of flooding post-development and does therefore not impede future development potential. Additionally no impact

	occurs on any dwellings/buildings and is wholly located to environmental and drainage areas. It is therefore concluded the flood impacts associated with the modelled events are considered non-adverse.
e) demonstrates how flood plain storage will be maintained;	The updated modelling demonstrates no material increase in flood levels, extents, velocities, or hazard. Non-adverse hydraulic impacts indicate that flood storage balance is not critical and will not provide any material benefit to surrounding land.
f) demonstrates that the development will not directly, indirectly or cumulatively increase the risk of the flood hazard to other properties; (Response updated to be consistent with HIA-03 Results)	This has been demonstrated within hazard mapping in Appendix E which demonstrates that d.v product throughout majority of the catchment in the local event is limited to 0.15 m^2/s which represents a low level of hazard. Additionally the development does not result in a material change in flood conditions and is therefore not increase flood risk. Further to this, impacts in the regional event are less than 10mm.
g) demonstrates compensation for loss of flood storage given that filling is proposed below the Defined Flood Event (DFE) level;	While filling is proposed below the Defined Flood Event, the modelling confirms no material worsening of flood behaviour. Non-adverse hydraulic impacts indicate that flood storage balance is not critical.
h) provides evidence of no worsening on adjoining State Controlled Road. (Response updated to be consistent with HIA-03 Results)	Updates made to the hydraulic modelling detailed in BE220566-RP-HIA-03 have included the proposed industrial collector road in both the pre-development and post-development hydraulic modelling scenarios. This ensures that the afflux assessment appropriately reflects the ultimate planned road network condition and isolates the hydraulic impacts associated with the proposed development. Based on the updated modelling results, no hydraulic impacts are shown over the adjoining State-controlled road corridor. The modelling demonstrates that the proposed development does not result in any increase in flood level, flood extent, velocity or hazard within the State-controlled road corridor. Accordingly, the proposed development is not expected to adversely impact the safety, function or future upgrade capacity of the adjoining State-controlled road corridor.

1.5 Response to Information Request – DEV2025/1587 OPW – 19/09/2025

Item	Response
2. Flooding and Stormwater	
In order for EDQ to consider filling within the mapped High Risk / flood hazard category H3 area, the following must be provided:	
• A cumulative flood study to demonstrate that the development will not directly, indirectly or cumulatively increase the risk of the flood hazard to other properties; and • Compensation for loss of flood storage given that filling is proposed below the Defined Flood Event (DFE) level. • Evidence of no worsening on adjoining State Controlled Road.	The High Flood Risk Area identified in Logan City Council's flood mapping corresponds to areas where flood depths exceed 0.5 m in the 1% AEP event. As part of this assessment, updates made to the Logan Albert River Regional Flood Study (2023) have reduced peak water depths over the site in the 1% AEP Climate Change event to less than 0.5 m. Given that the pre-development scenario for the 1% AEP Climate Change event now results in flood depths of less than 0.5 m, it is appropriate that the flood risk classification for the site be revised to a 'Moderate Flood Risk Area.' Generally, there is no increase in extent of flooding post-development and does therefore not impede future development potential. Additionally no impact occurs on any dwellings/buildings and is wholly located to environmental and drainage areas. It is therefore concluded the flood impacts associated with the modelled events are considered non-adverse.

1.6 Scope

To achieve the above-mentioned objectives, this Flood Assessment details the following:

1.6.1 Local Assessment

Hydrological Model Development;

- Construct a local Drains hydrology model;
- Validate the Drains model with Rational Method calculations;
- 1%, 0.05% AEP, PMF and 5%,10% 1% , 0.5 and 0.2%,AEP Climate Change events.

Hydraulic Model Development;

- Construct a local TUFLOW hydraulic model;
- Incorporate proposed development as a design scenario; and
- 1%, 0.05% AEP, PMF and 5%,10% 1% , 0.5 and 0.2%,AEP Climate Change events.

Review of Model Results and Results Processing;

- Review of modelling results such as water surface level impacts;

Report and Mapping;

- Presentation of pre-development and post-development flood extents, depths, and velocities (where applicable); and
- Review of any impacts resulting from the proposal in the context of whether such afflux may give rise to potential actionable damage to surrounding properties.

1.6.2 Regional Assessment

- Review Councils Regional TUFLOW model (Logan Albert River Flood Study 2023) and update existing base case scenario to best represent current day/approved conditions;
- Run 0.05% AEP, PMF and 1% , 0.5 and 0.2%,AEP Climate Change events.
- Amend regional model to include development site and assess potential impacts;

2. Site Detail

2.1 Real Property Description

The site is legally described as Lot 7 & 8 on RP137101. The corresponding street address is 4745-4759 and 4761-4773 Mount Lindesay Highway, North Maclean. The combined site is generally rectangular and occupies an area of approximately 8.20 ha. The location of the subject site is shown on Figure 2.1.



Figure 2.1 Site Locality Plan

2.2 Physical Description

The site is accessed from Mount Lindesay Highway service road, an existing road which fronts the eastern boundary of the subject site.

The subject site is mostly flat, ranging from RL26 mAHD to RL29 mAHD. There is a separate development application on Lots 7 and 8 on RP137101 for bulk earthworks and vegetation clearing. Current features of the site include:

- Lot 7 is covered with trees and vegetation
- Lot 8 is covered with trees and vegetation.

The subject site is located within the Great Flagstone Priority Development Area (PDA).

The site is bounded by the following existing land uses:

- North: Lot 6 on RP137101 Vacant Land;
- East: Mount Lindsay Highway;
- South: Lot 2 on SP267252 Industrial business; and
- West: Lot 9 on RP137101 Industrial supplier/business.

2.3 Downstream Environment

The stormwater runoff is conveyed via overland flow to the northern site boundary, where is sheet flows across the vacant lots to the north eventually discharges into the Logan River.

2.4 Rainfall

The mean annual rainfall for the site has been estimated at 932.8 mm from the data set obtained from the nearest Bureau of Meteorology (BOM) station number 040542 at MacLean Bridge, Queensland.

2.5 Proposed Development

The proposed development is a 17 lot industrial subdivision across the two lots, with an internal road that gains access from Mount Lindesay Highway. The lots range in size from 3019m^2 to 4535m^2. Refer to the plan shown in Figure 2.2 below and in Appendix A. The internal subdivision road network and Service Road R047 are designed above the Defined Flood Event (1% AEP 2100) and provide flood-free vehicular access under that event. The proposed future industrial collector road (to be constructed by others) has also been included in the proposed layout. This HIA is to support both existing applications DEV2025/1676 Reconfiguring a Lot & DEV2025/1587 Operational Work. Stormwater Management over the site has been addressed in BE220566-RP-CSMP-02 prepared for DEV2025/1676.

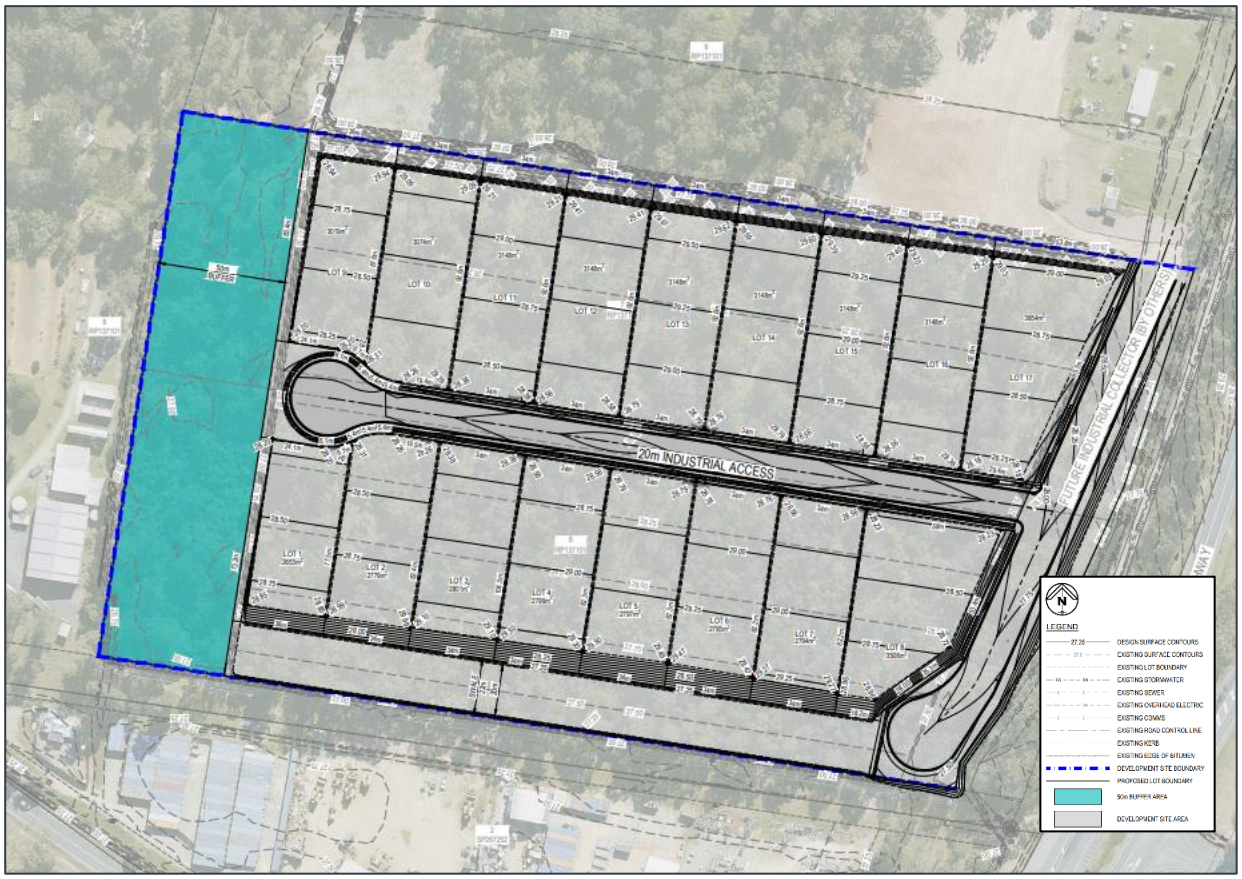


Figure 2.2 Proposed Development

3. Hydrologic Assessment - Local

3.1 Hydrologic Modelling Methodology – Local

Ten (10) catchments within the vicinity of the subject site were modelled in DRAINS. The catchment extents and hydrological parameters were determined using a combination of LiDAR data and aerial imagery.

The catchment areas used in the hydrology model are shown in Figure 3.1 and key catchment parameters are summarised in Table 3.1.

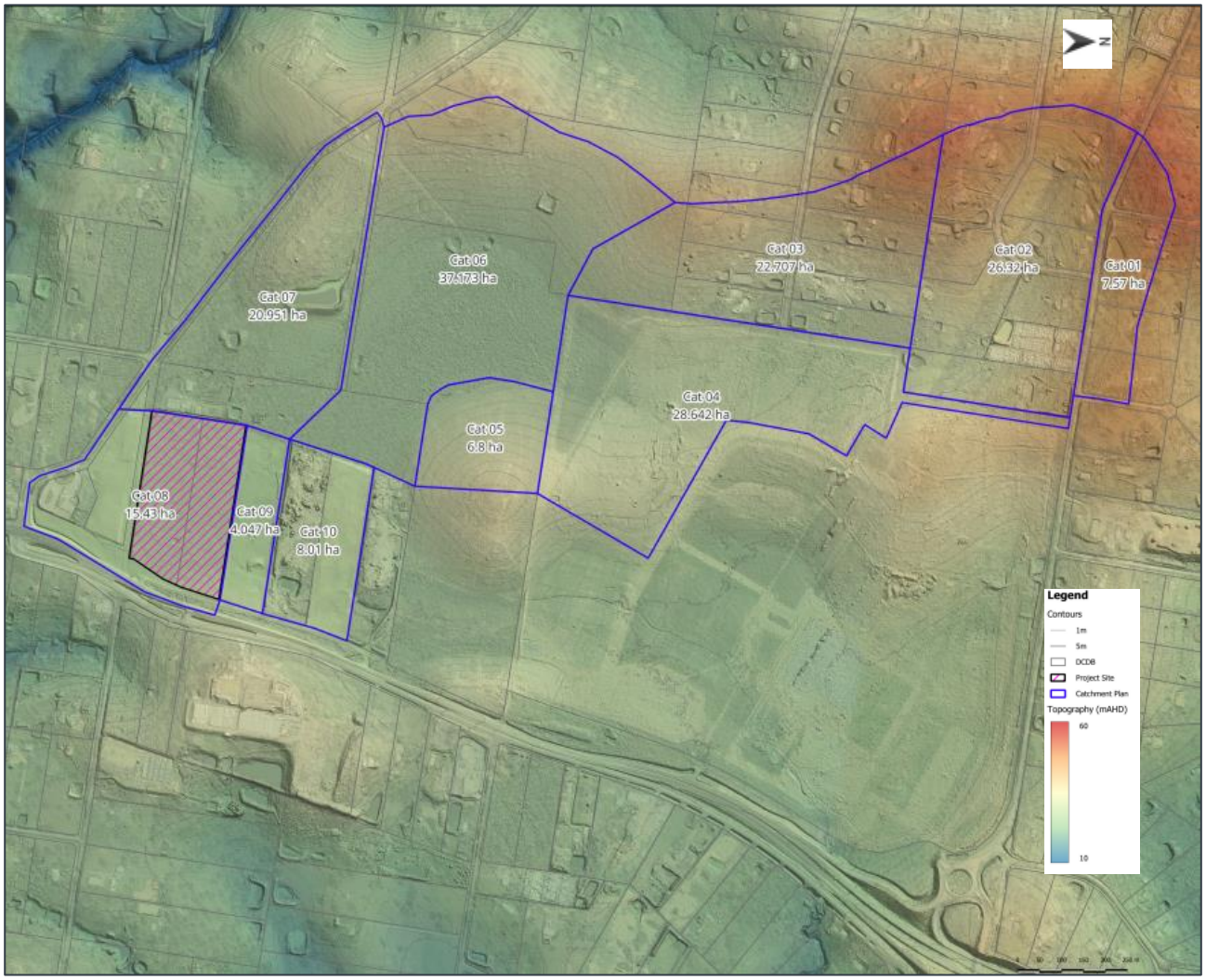


Figure 3.1 Local Catchment Extents

Table 3.1 DRAINS Catchment Parameters

Scenario	Catchment ID	Area (ha)	% Impervious
Pre-Development	Cat 01	7.57	10
	Cat 02	26.32	10
	Cat 03	27.707	10
	Cat 04	28.642	90
	Cat 05	6.8	90
	Cat 06	37.173	10
	Cat 07	20.951	10
	Cat 08	15.43	9
	Cat 09	4.047	10
	Cat 10	8.01	10

Storm losses for pervious areas were adopted in accordance with ARR 2019 guidance. Losses for impervious areas was set to zero.

The storm durations that produced the median peak flow from the ensemble storms at the site were adopted as the design events for the local flood impact assessment. The critical storms adopted for the hydraulic assessment are summarised in Table 3.2.

Table 3.2 DRAINS Critical Storms and Peak Discharges

Event	Critical Storm
1% AEP	120min,TP06
0.05% AEP	90min TP05
PMF	360min
10% AEP CC	360min TP10
5% AEP CC	180min TP08
1% AEP CC	120min TP03
0.5% AEP CC	120min TP08
0.2% AEP CC	90min TP05

Note: The critical duration and temporal pattern combination was determined using the temporal pattern that produced the median peak discharge for each duration (10 minutes to 6 hours), then selecting the duration with the highest peak discharge from the median temporal pattern storms.

3.2 Peak Flow Validation – Local

The rational method was used to check the validity of the peak discharges estimated by the DRAINS model to confirm the hydrology model was producing reasonable estimations. The rational method peak discharges are presented in Table 3.3.

Table 3.3 1% Rational Method v DRAINS Peak Discharges

Catch. ID	Rational Method (m^3/s)	DRAINS (m^3/s)	Difference (%)
Cat 01	2.72	2.77	-0.3
Cat 02	7.44	7.61	3.2
Cat 03	7.15	7.18	6.7
Cat 04	11.25	13.20	-10.1
Cat 05	3.49	3.82	-8.1
Cat 06	9.63	9.56	11.8
Cat 07	5.80	5.88	1.0
Cat 08	4.61	4.75	-1.9
Cat 09	1.17	1.25	4.9
Cat 10	3.04	3.14	13.8

Generally, peak flows compare well between the DRAINS model results and calculated flows from the rational method and have been deemed suitable for use in this flood assessment.

4. Hydraulic Assessment - Local

4.1 Hydraulic Model Methodology – Local

A TUFLOW model was developed to assess the impact of the proposed development on the local flooding regime over the subject site. The TUFLOW model extent was defined more than 0.5 km upstream and downstream of the subject site.

The critical events simulated in the TUFLOW model were determined by the hydrology modelling discussed above.

4.2 TUFLOW Model Inputs - Local

The TUFLOW model inputs are summarised in the following Table 4.1 and shown in the TUFLOW Configuration maps provided in Appendix D.

Table 4.1 TUFLOW Model Inputs - Local

Parameters	Details
Topography	2023 1m LiDAR Available Survey data Relevant Amendments utilizing Z-shapes as discussed in section 4.4.
Initial Water Level	Existing dams filled to spillway level based on LiDAR
2D Resolution	2m grid.
Timestep	Adaptive timestep. (HPC)
Inflows	Hydrographs derived from DRAINS hydrology model included as SA and QT inflows. Refer to the model features mapping provided below and in Appendix D for inflow locations.
Downstream Boundary Condition	HQ Boundary
Hydraulic Structures	Culverts within the model domain have been modelled using the combination of 1D features and DEM modification in TUFLOW. Details of input parameters can be found below.
Surface Roughness (reflected as Manning 'n')	0.055 – Medium Scrub 0.100 – Dense Vegetation 0.050 – Scattered Scrub 0.100 - Buildings 0.020 –Water body 0.060 – Swales
Development Representation	The design earthworks surface was adopted in the post-development scenario, as well as the post-development hydrology.

4.3 Climate Change Representation – ARR Guidelines 4.2 - Local

This assessment has been undertaken in accordance with the latest Australian Rainfall and Runoff (ARR) 4.2 guidelines, which incorporate updated methodologies for considering climate change impacts on rainfall and flood behaviour. The ARR 4.2 framework aligns with the global Shared Socioeconomic Pathways (SSP) and Representative Concentration Pathways (RCP) approach adopted by the Intergovernmental Panel on Climate Change (IPCC). For this study, the SSP2-4.5 scenario has been adopted, representing a “middle-of-the-road” development pathway with moderate greenhouse gas emissions and associated climatic changes.

The Climate Change factors for increase in rainfall depth were applied as per the below table sourced from ARR data hub for the area.

Table 4.2 SSP2-4.5 Climate Change Factors

Burst Duration	Duration in Mins	Depth Factor	α %/°C	Total % Increase
≤1 hour	60	1.41	14.7%	41.0%
1.5 Hours	90	1.37	13.4%	37.0%
2 Hours	120	1.35	12.8%	35.0%
3 Hours	180	1.32	11.7%	32.0%
4.5 Hours	270	1.29	10.7%	29.0%
6 Hours	360	1.27	10.0%	27.0%
9 Hours	540	1.25	9.3%	25.0%
12 Hours	720	1.24	9.0%	24.0%
18 Hours	1080	1.22	8.3%	22.0%
≥24 Hours	1440	1.21	7.9%	21.0%

4.4 Pre-development Scenario Representation - Local

The base topography has been updated to best represent the current day scenario with the addition of surrounding approvals and developments under construction. Z-Shapes were used in the TUFLOW model to represent earthworks and changes to ground levels associated over the following lots and approvals:

- DEV2024/1470 – Lot 6 on RP137101 – Development filled above flood level in accordance with approved earthworks plans

- DEV2022/1315/2 – Lot 1 on RP113251 – Maclean Estate – Development filled above flood level and channel represented in model in accordance with Bulk Earthworks Sketch Plan prepared by Arcadis
- Proposed Future Industrial Collector Road (to be constructed by others) design surface.

Shown below in Figure 4.1 is the pre-development TUFLOW model set up map.

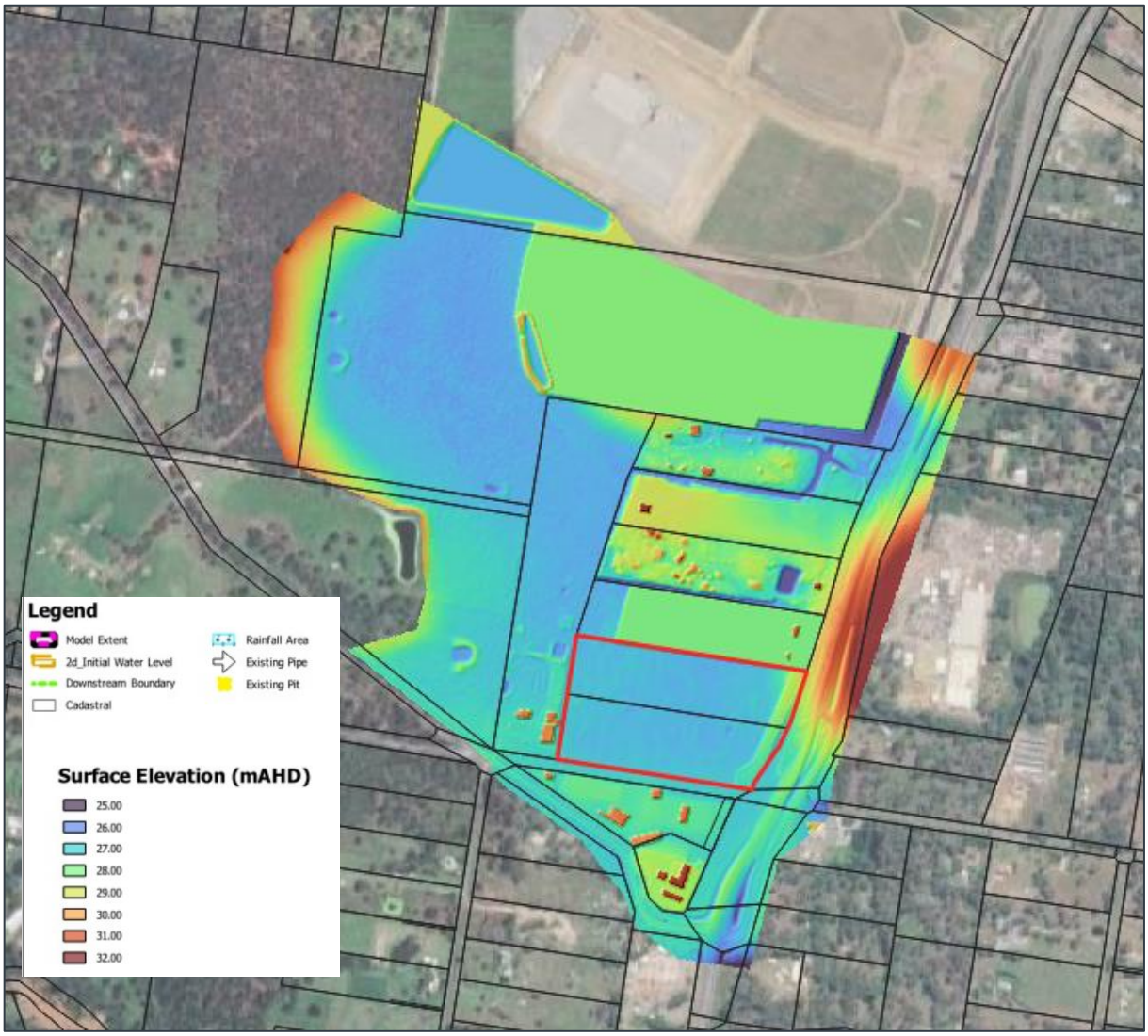


Figure 4.1 Pre-Development TUFLOW Model Configuration

4.5 Post-development Scenario Representation - Local

The development over Lot 7 & 8 on RP137101 was represented utilising the earthworks surface prepared for the development. The post-development TFULOW model configuration is shown below in Figure 4.2.

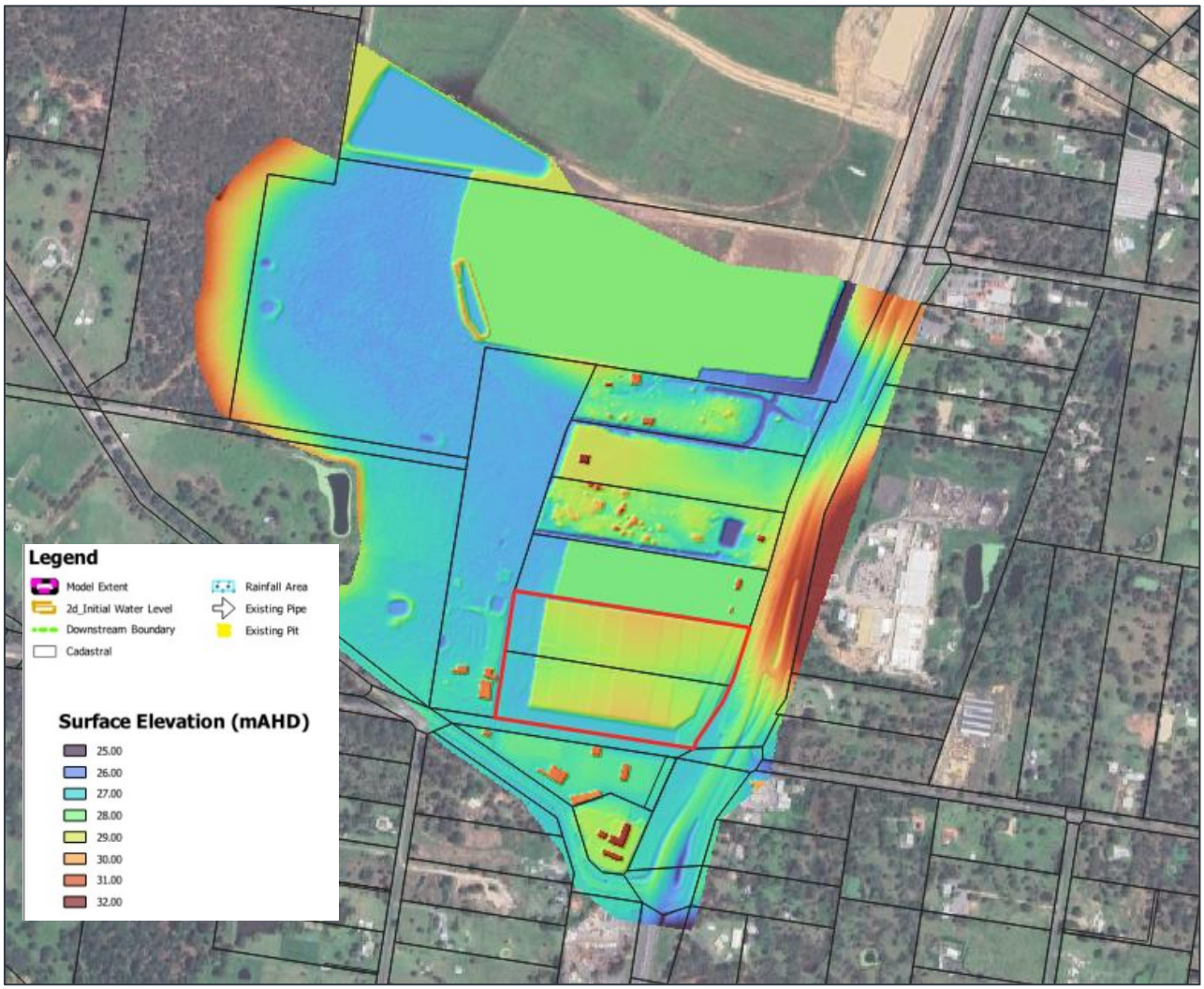


Figure 4.2 Post-Development TUFLOW Model Configuration

4.6 Results – Local

4.6.1 Pre-development Flood Conditions – 1% AEP

The model results suggest that in the 1% AEP the subject site is subjected to inundation of approximately 300-400mm across majority of the site with a peak flood depth of 560mm at the sites norther boundary. Shown below in Figure 4.3 is the 1% AEP peak flood depth map.

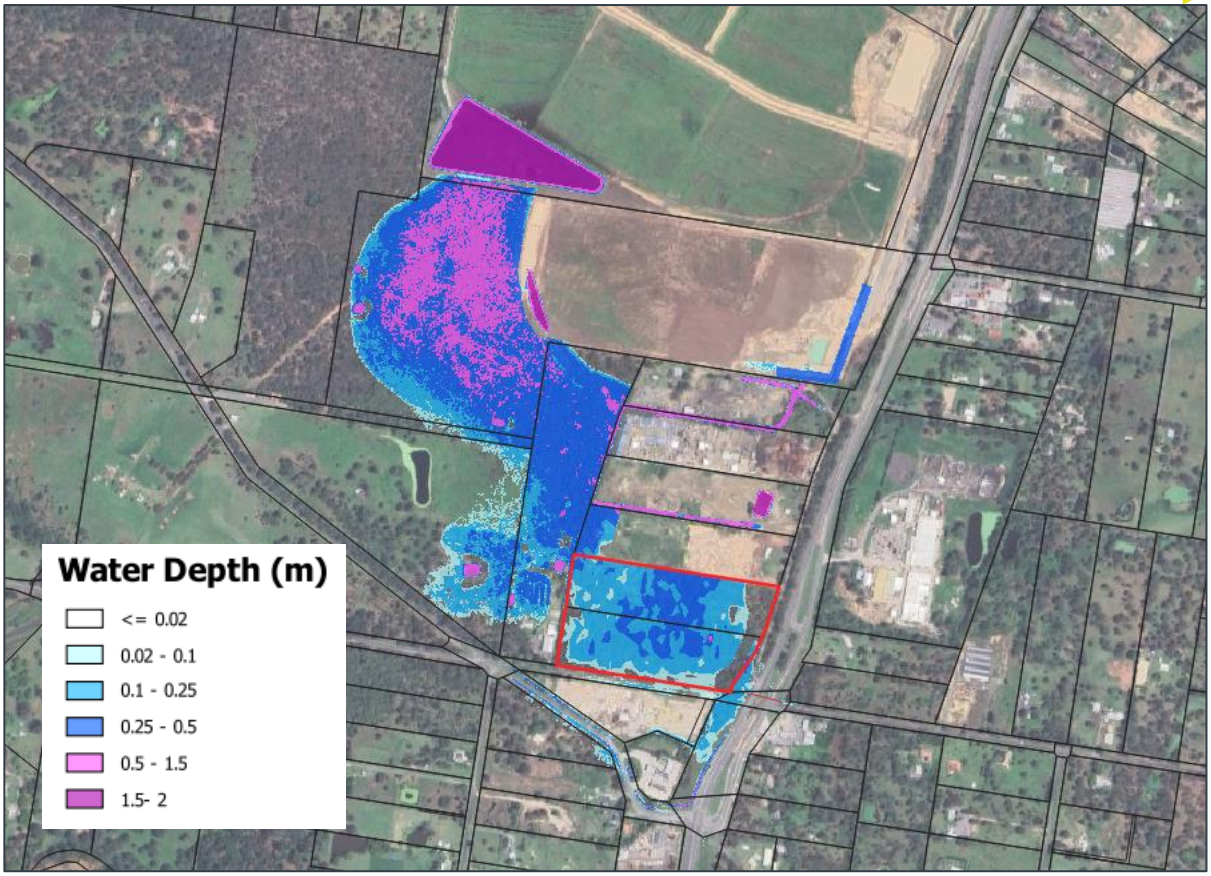


Figure 4.3 1% AEP Pre-Development Scenario Peak Water Depth - Local

4.6.2 Pre-development Flood Conditions – 1% AEP Climate Change - 2100

The climate change 1% AEP flood depth results are similar to those presented in Figure 4.3 above with a global increase of depth across the model. A full set of result maps have been provided in Appendix E.

4.7 1% AEP Post-development Flood Conditions

In the post developed scenario, majority of the development has been filled above the flood level over the site and will be free from inundation in the 1% AEP event. Shown below in Figure 4.4 is the 1% AEP peak flood depth map in the post developed scenario.

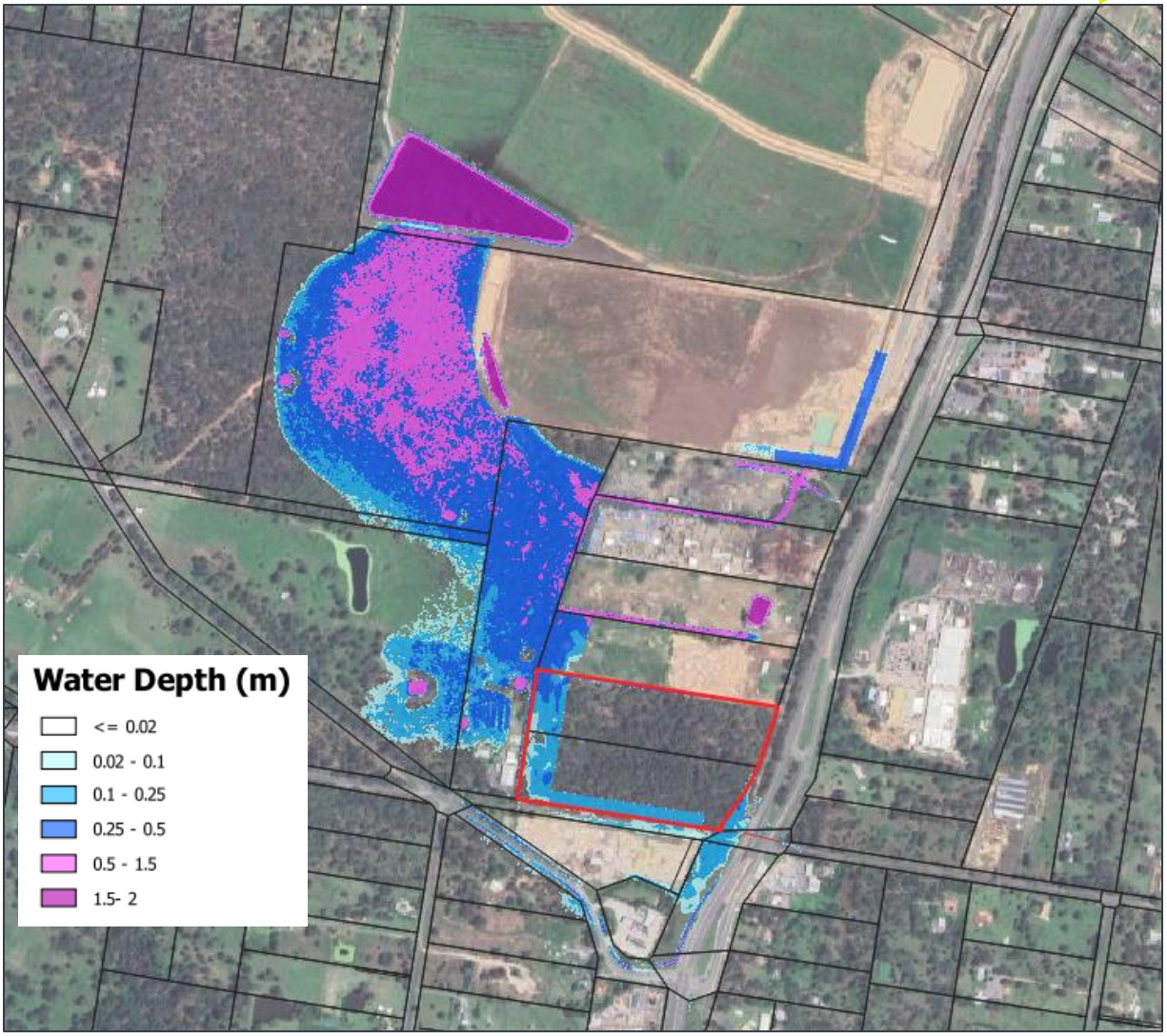


Figure 4.4 1% AEP Post-Development Scenario Peak Water Depth - Local

4.7.1 Post-development Flood Conditions – 1% AEP Climate Change - 2100

The climate change 1% AEP flood depth results are similar to those presented in Figure 4.4 above with a global increase of depth across the model. A full set of result maps have been provided in Appendix E.

4.8 Impact Assessment - Local

The assessment considered pre- and post-development conditions and was completed in accordance with the relevant PDA Development Scheme Assessment Benchmarks. This section of the report demonstrates that the proposed works do not materially increase flood levels, flow velocities, or flood extents beyond the site boundary and, as a result, do not give rise to adverse flooding impacts on surrounding properties or existing infrastructure.

The pre- and post-developed maximum flood water surface elevations were compared for each of the AEP events to quantify the maximum flood impacts caused by the development. The results are presented in maps in Appendix E, the 1% AEP and 1% AEP Climate Change result is presented in Figure 4.5.

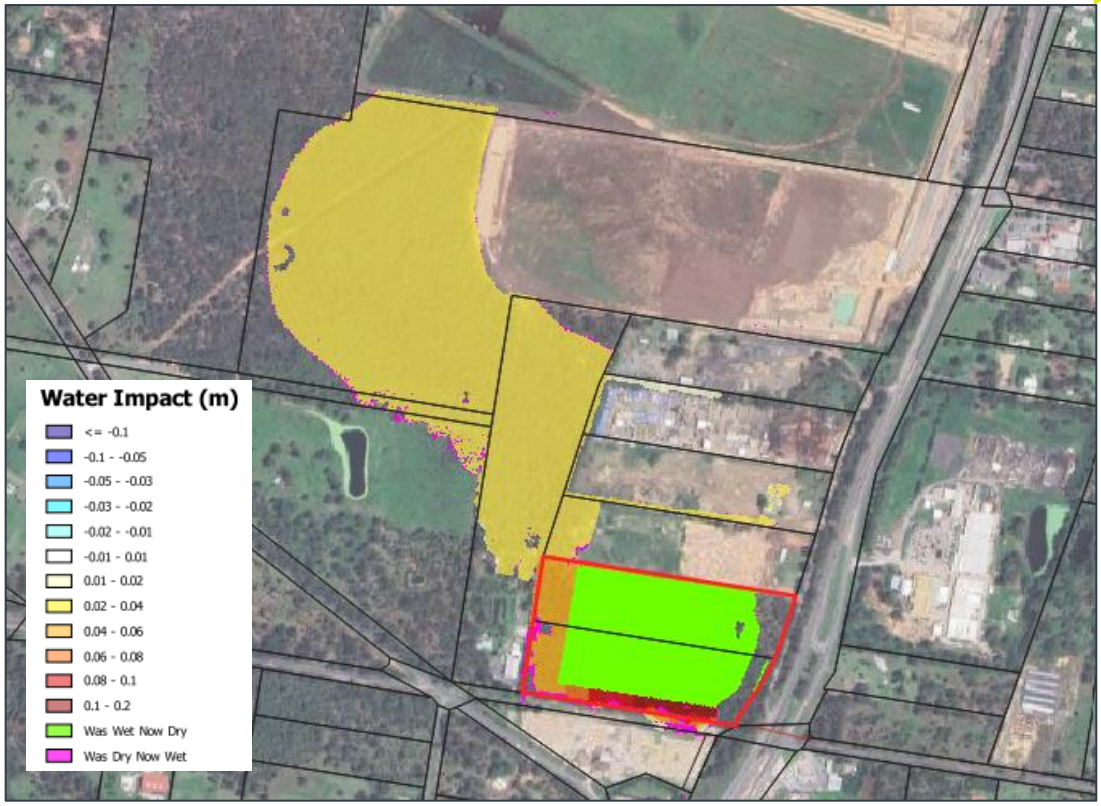


Figure 4.5 1% Climate Change AEP Water Level Afflux Map – Local

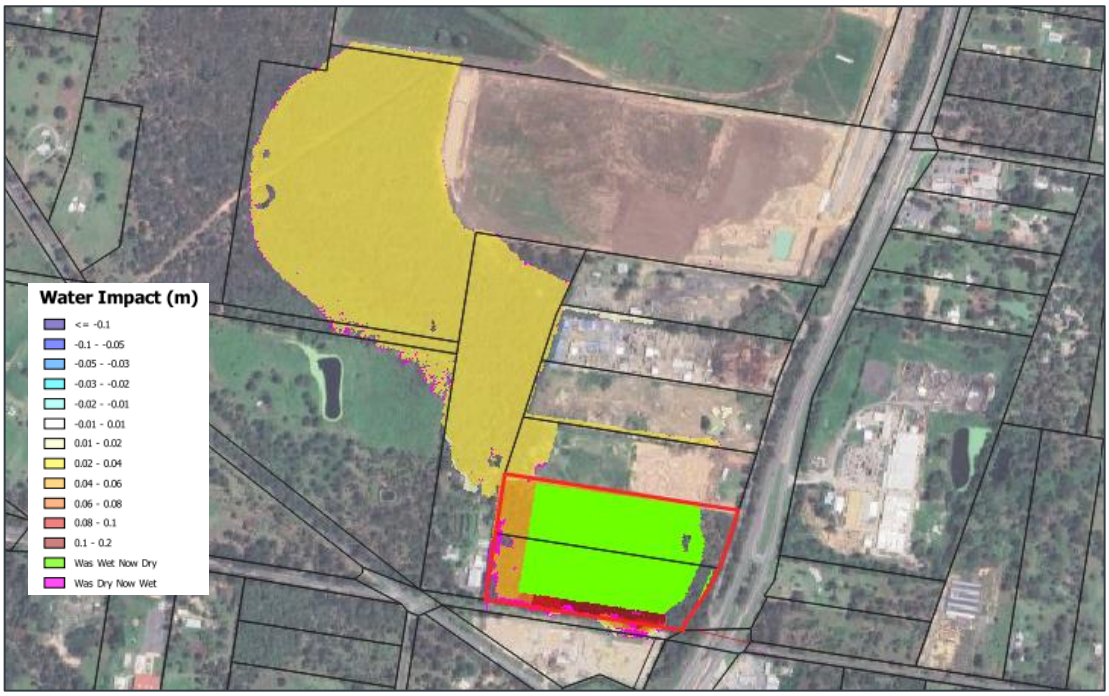


Figure 4.6 1% AEP Water Level Afflux Map - Local

Impact results indicate that in both the 1% AEP and 1% AEP Climate Change event the development will result in increases in water level of up to 40 mm in the are immediately west of the site.

The majority of the mapped impacts occur within areas that experience modelled peak flood depths greater than 500 mm under existing conditions. It is noted that the area toward the north-west of the site is identified

in the North Maclean Enterprise Context Plan as a future biodiversity corridor and is not zoned for industry or business purposes. Furthermore, this area has been designated as an environmental conservation area under Approval No. DEV20221315. Refer to the figure below, which presents the 1% AEP climate change impacts overlaid on the Maclean Estates ROL Plan.. Hazard mapping presented in Appendix E of this report also demonstrates that the d.v product throughout the impact area remains less than 0.15m^2/s in the post developed scenario.

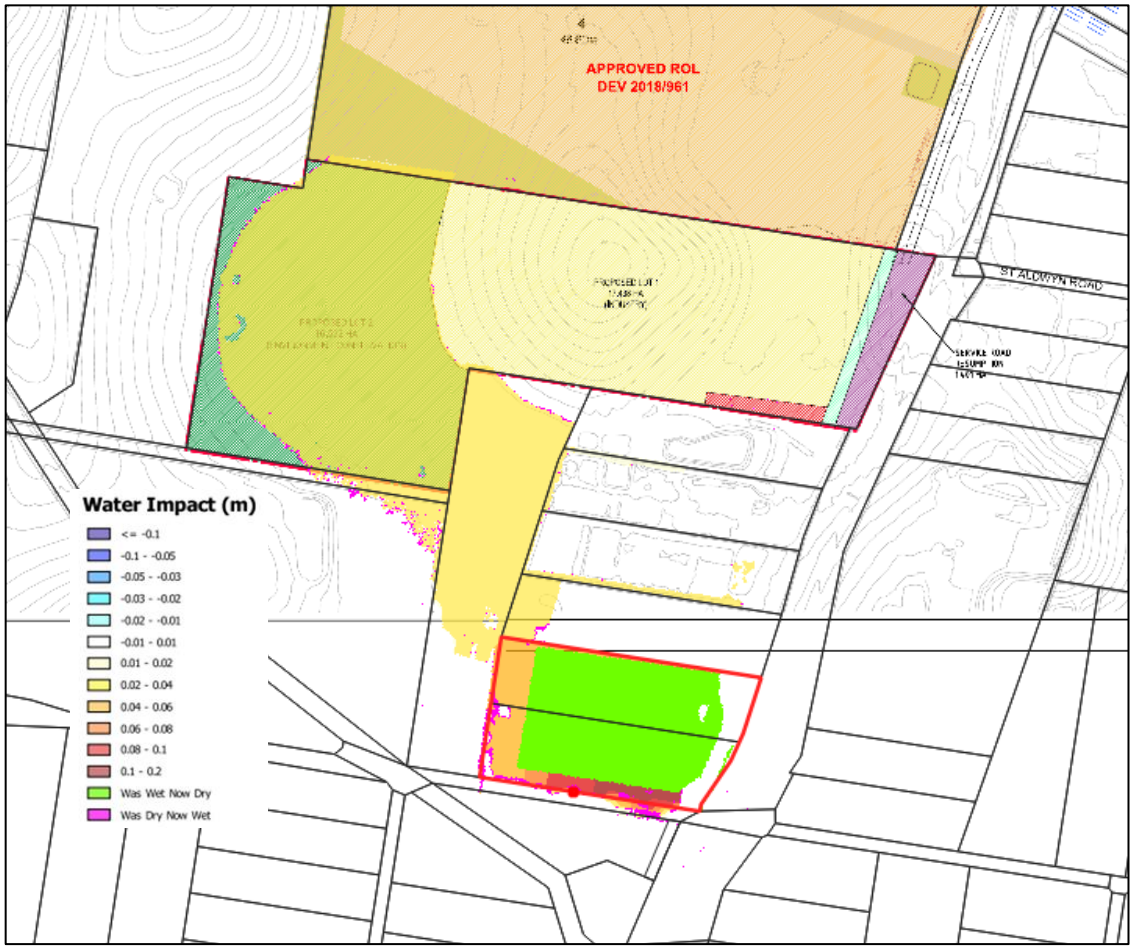


Figure 4.7 1% AEP CC Water Level Afflux Map – Local – Maclean Estate ROL Plan

Figure 4.8 below illustrates the extent of flood impacts in relation to surrounding approved development within the PDA. The figure demonstrates that the identified impacts do not materially affect developable land, with any impacts largely confined to areas mapped as a future biodiversity corridor or designated as environmental conservation areas. Accordingly, no adverse flood impacts are identified on land approved for industrial or business development within the PDA.

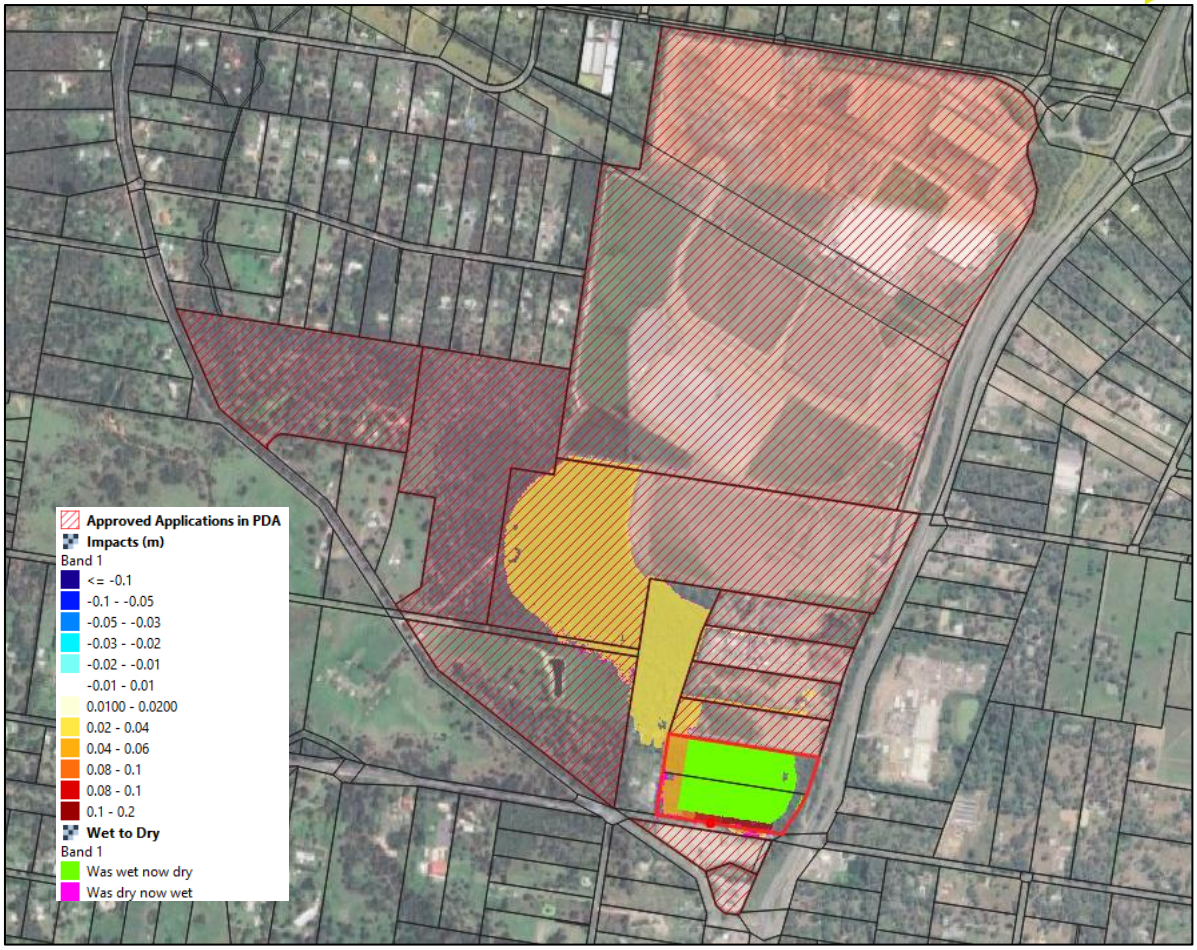


Figure 4.8 1% AEP CC Water Level Afflux Map – Local – PDA Approval Context

It is noted that there is no increase in extent of flooding post-development and does therefore not impede future development potential. Additionally no impact occurs on any dwellings/buildings and is wholly located to environmental and drainage areas.

The modelling demonstrates that any changes in flood levels are non-adverse and immaterial, with no measurable worsening to upstream, downstream, or adjacent properties or infrastructure.

Consistent with the State Planning Policy (Natural hazards, risk and resilience) assessment benchmarks, the modelling demonstrates that the proposal does not increase flood extent, hazard or risk external to the site, and does not increase exposure or severity of flooding impacts on adjoining land or infrastructure.

5. Hydraulic Assessment - Regional

5.1 Hydraulic Model Methodology – Regional

A hydraulic impact assessment was undertaken using Logan City Council's endorsed regional flood model, the 2023 Logan-Albert Flood Model. To better assess flooding behaviour specific to the proposed development, amendments were made to the base case model to refine the local topography, drainage characteristics, and representation of the site and its surrounds. These modifications ensure that the model provides a realistic simulation of flood behaviour under existing and proposed conditions. The following section outlines the model adjustments undertaken and presents the resulting flood behaviour across the development site.

5.2 TUFLOW Model Inputs - Regional

The TUFLOW model inputs are summarised in the following Table 5.1 and shown in the TUFLOW Configuration maps provided in Appendix D.

Table 5.1 TUFLOW Model Inputs – Regional

Parameters	Details
Topography	2023 1m LiDAR Relevant Amendments utilizing Z-shapes as discussed in section 4.4.
Initial Water Level	Existing dams filled to spillway level based on LiDAR
2D Resolution	10m grid.
Timestep	Adaptive timestep. (HPC)
Inflows	Inflow boundaries and locations have been left unchanged from the base case Logan-Albert Flood Study.
Downstream Boundary Condition	Down stream boundary locations have been left unchanged from the base case Logan-Albert Flood Study.
Hydraulic Structures	Culverts within the model domain have been modelled using the combination of 1D features and DEM modification in TUFLOW. Details of input parameters can be found below.
Surface Roughness (reflected as Manning 'n')	Unchanged from the base case Logan-Albert Flood Study: 0.150 – Very Dense Bushland 0.055 – Rural Residential 0.200 – Low Density Residential 0.250 – Medium Density Residential 0.300 – High Density Residential 0.090 – Dense bushland 0.080 – Medium Dense bushland 0.020 - Road 0.020 –Water body 0.025 – 0.120 – Rivers and Channels
Development Representation	The design earthworks were represented through the use of Z-shapes within the model.

5.3 Pre-development Scenario Representation -Regional

The base topography has been updated to best represent the current day scenario with the addition of surrounding approvals and developments under construction. Z-Shapes were used in the TUFLOW model to represent earthworks and changes to ground levels associated over the following lots and approvals:

- DEV2024/1470 – Lot 6 on RP137101 – Development filled above flood level in accordance with approved earthworks plans
- DEV2022/1315/2 – Lot 1 on RP113251 – Maclean Estate – Development filled above flood level and channel represented in model in accordance with Bulk Earthworks Sketch Plan prepared by Arcadis
- DEV2018-961-12 – Lot 39 on SP258739 – Charter Hall Development, Earthworks and channel levels have been applied via Z-Shapes
- DEV2021/1242 - Lot 2 on SP267252 - 916 – 944 Greenbank Road – Approved filling above flood level;
- Detailed Surface Level Survey of Green Bank Road – Provided by Sunrise Surveying (Provided in Appendix G of this report)
- Increased definition of Channel through Lot 3 & 4 on RP137101
- Additional Culvert across Mt Lindesay Highway
- Proposed Future Industrial Collector Road (to be constructed by others) design surface.

A depiction of model topography amendments (shown with coloured polygons) is demonstrated in the model excerpt shown below in Figure 5.1.

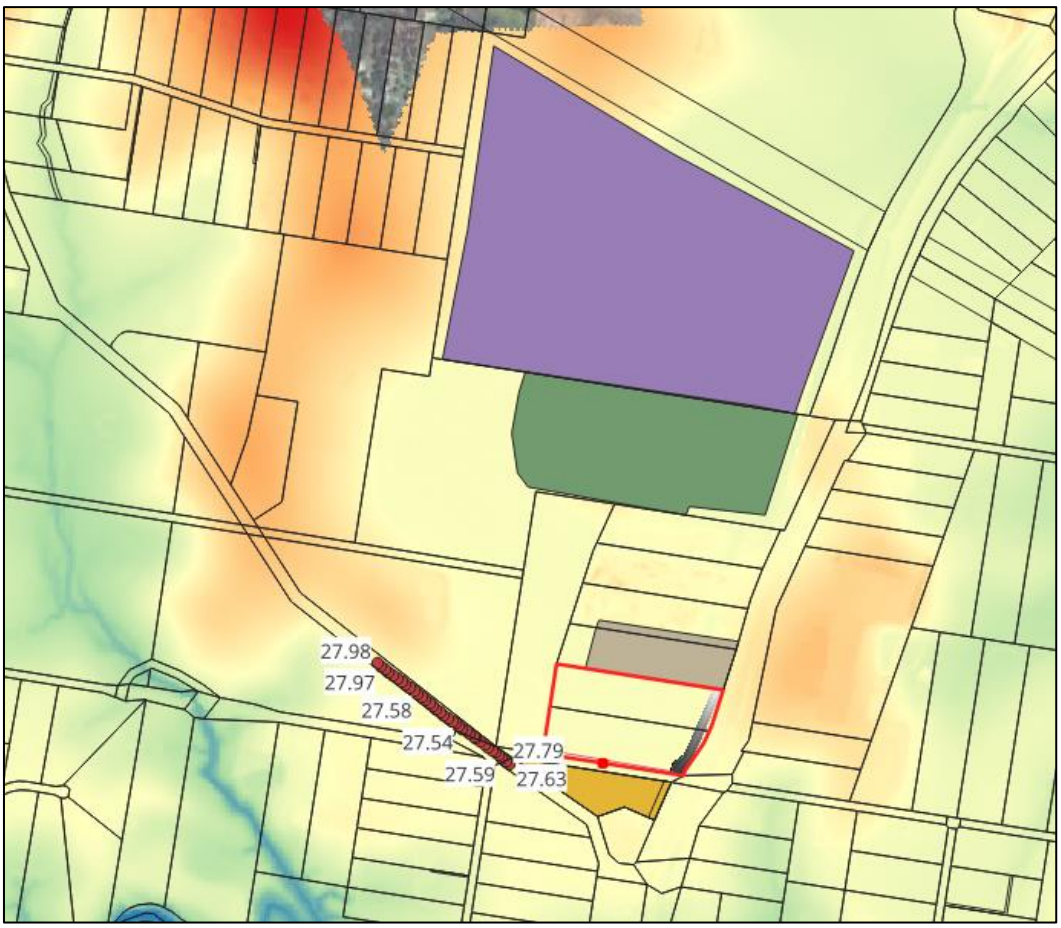


Figure 5.1 Pre-Development TUFLOW Representation

5.4 Climate Change Representation – Regional

In accordance with the original Logan Albert 2023 Flood model and report, to obtain climate change scenario design flow hydrographs, design rainfall in the XP-RAFTS hydrologic model was increased by a factor of 1.095 (9.5% increase) in accordance with guidelines in Book 1 Chapter 6 of the 2016 ARR (Ball et al, 2019). The adopted multiplication factor is based on the RCP4.5 climate change projection, a planning horizon of year 2090 and a projected warming of 1.862 degrees Celsius. Design rainfall losses and all other hydrologic model parameters are the same for both the current climate and future climate scenarios.

This was the climate change scenario applied to the regional modelling in this assessment.

5.5 Results – Regional

5.5.1 Pre-development Flood Conditions – Regional 1% AEP – Current Climate

The Flood Modelling results indicates that the subject site is not flood affected in the current climate 1% AEP regional flood event.

On this basis, the current climate 1% AEP regional event has not been further modelled for the post-development scenario, as the proposed development area is located outside the regional flood extent under this event. As the site is not inundated in the pre-development current climate 1% AEP regional event, filling and development over the subject site would not displace regional flood storage or alter regional flood conveyance under this event.

Accordingly, the proposed development would not result in any regional flood level, flood extent, velocity, hazard or afflux impacts in the current climate 1% AEP regional event

5.5.2 Pre-development Flood Conditions – Regional 1% AEP Climate Change

The model results suggest that in the 1% AEP Climate Change regional event the subject site is subjected to inundation of approximately 50-100mm across the majority of the. Shown below in Figure 5.2 is the 1% AEP Climate Change peak flood depth map in the regional event.

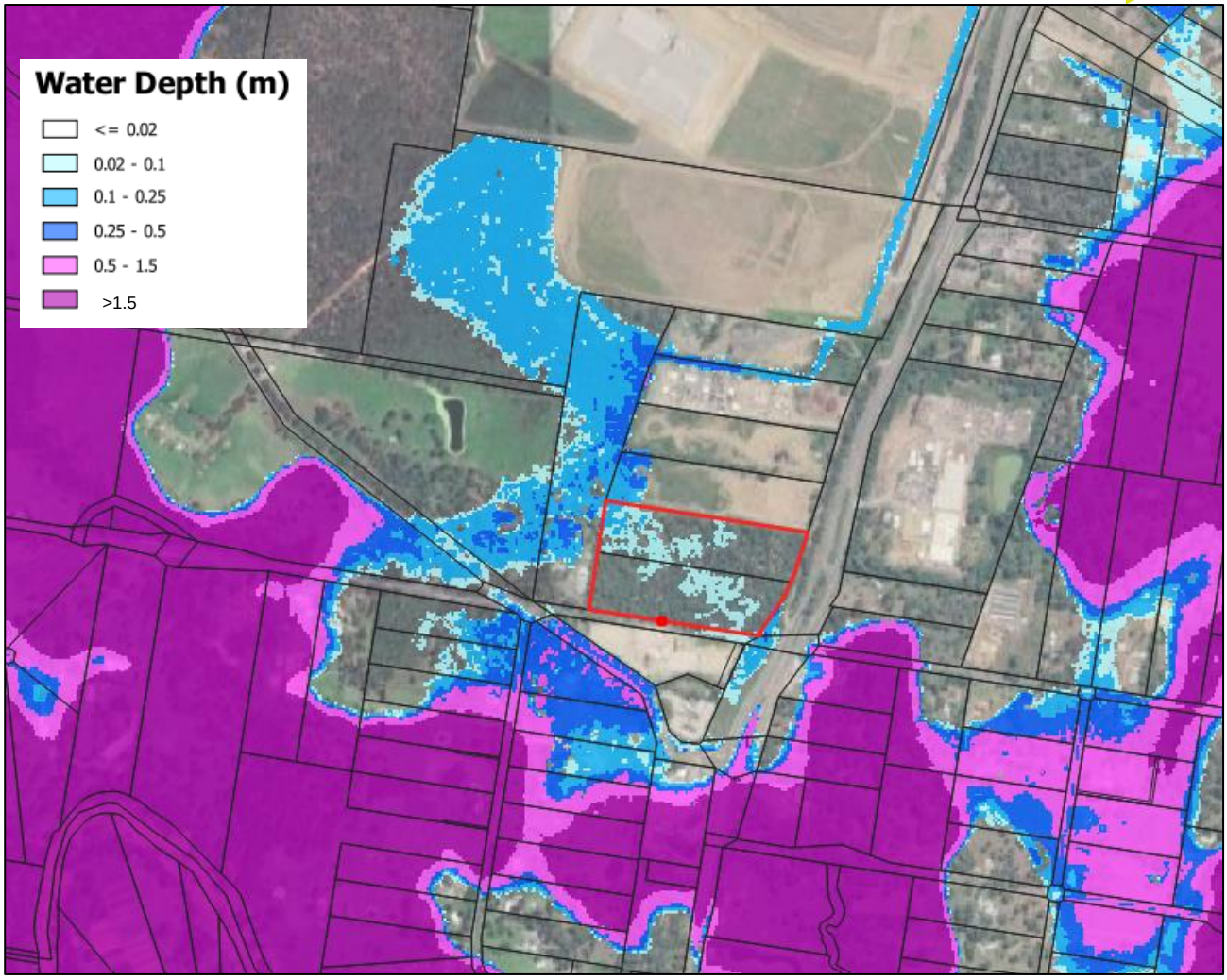


Figure 5.2 1% AEP Climate Change Regional Pre-Development Scenario Peak Water Depth

It should be noted that with the inclusion of detailed surveyed surface levels of Greenbank Road, the amount of flow overtopping Greenbank Rood to the west of the site was dramatically reduced. This reduction in flow and overtopping resulted in much lower flood levels over the subject site in the base case scenario.

5.5.3 Post-development Flood Conditions – Regional 1% AEP Climate Change

In the post developed scenario, majority of the development has been filled above the flood level over the site and will be free from inundation in the 1% AEP event. Shown below in Figure 5.3 is the 1% AEP Climate Change Regional peak flood depth map in the post developed scenario.

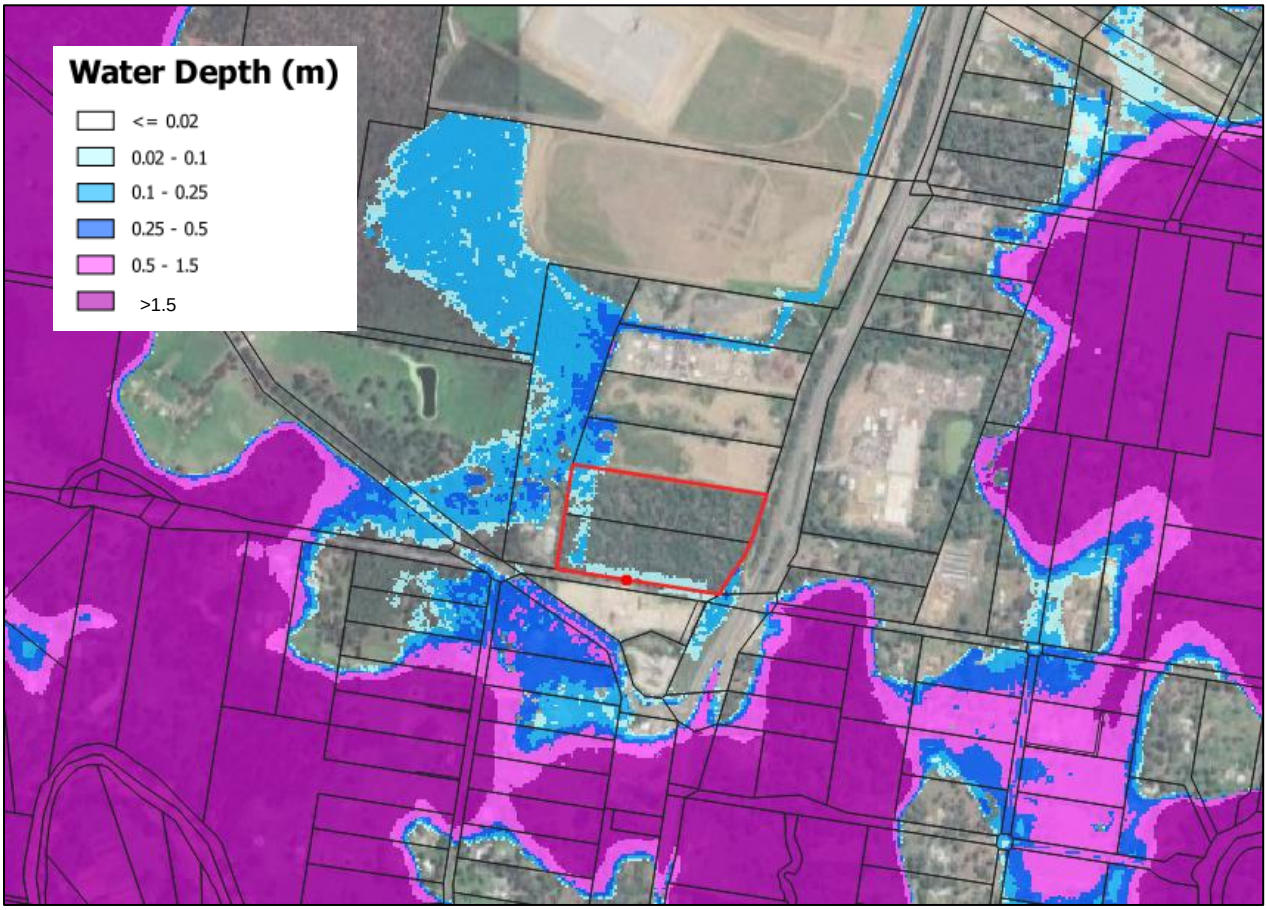


Figure 5.3 1% AEP Climate Change Regional Post-Development Scenario Peak Water Depth

5.6 Impact Assessment – Regional

The pre- and post-developed maximum flood water surface elevations were compared for each of the AEP events to quantify the maximum flood impacts caused by the development. The results are presented in maps in Appendix E, the 1% AEP and 1% AEP Climate Change result is presented in Figure 5.4.

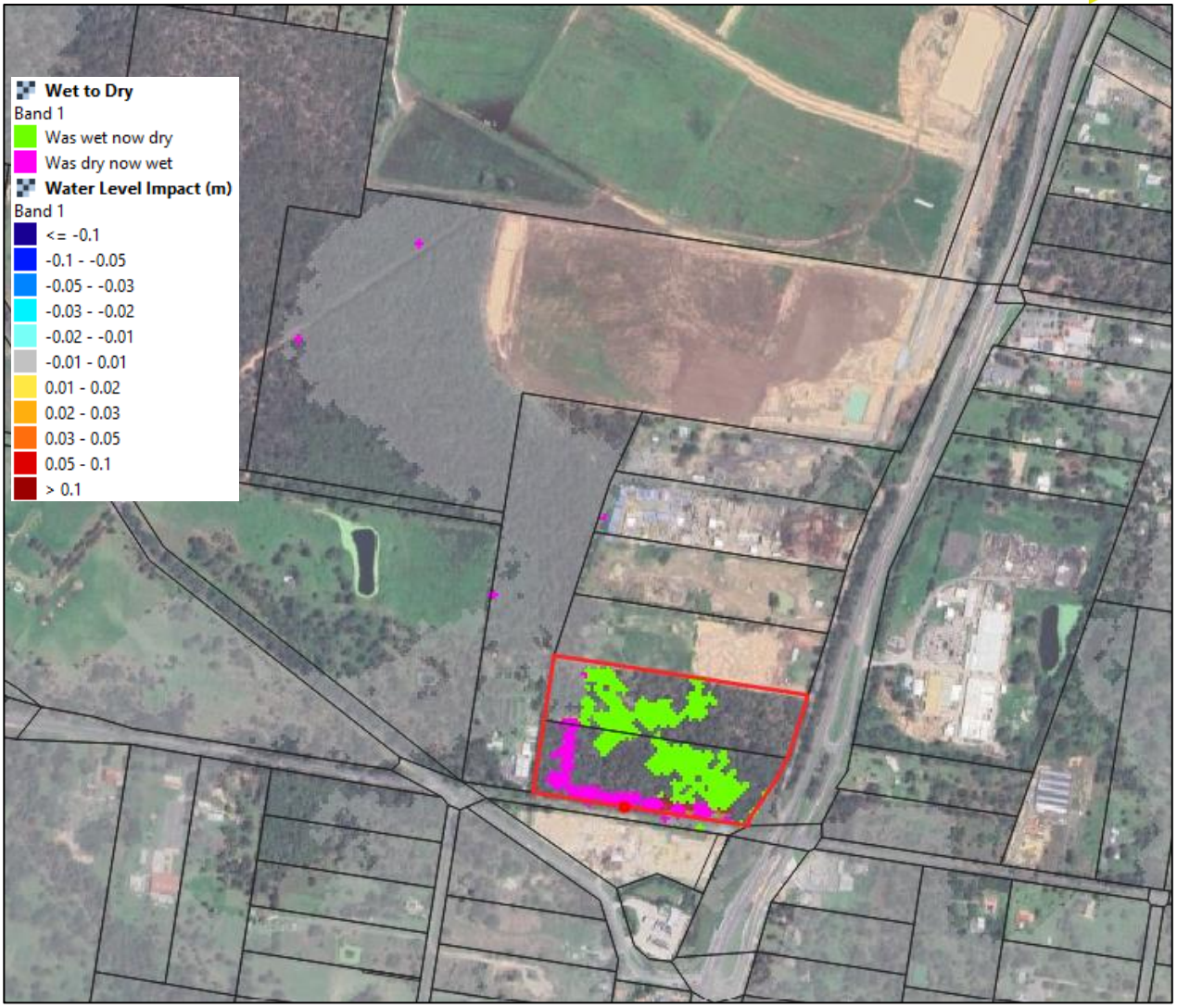


Figure 5.4 1% AEP Climate Change Regional Water Level Afflux Map – Regional

Impact results indicate that in 1% AEP Climate Change Regional event the development will result in increases in water level of less than 10mm.

It is noted that there is no increase in extent of flooding post-development and does therefor not impede future development potential. Additionally no impact occurs on any dwellings/buildings and is wholly located to environmental and drainage areas.

Consistent with the State Planning Policy (Natural hazards, risk and resilience) assessment benchmarks, the modelling demonstrates that the proposal does not increase flood extent, hazard or risk external to the site, and does not increase exposure or severity of flooding impacts on adjoining land or infrastructure.

It is therefore concluded the flood impacts associated with the modelled regional event is acceptable.

6. Conclusion

This Hydraulic Impact Assessment (HIA) has been prepared for Roubaix Properties Pty Ltd for a Development Approval (DA) submission, for a ROL to facilitate a 17-lot industrial subdivision, to Economic Development Queensland (EDQ).

The findings and modelling results of this Hydraulic Impact Assessment demonstrate that the proposal does not cause adverse flooding impacts to surrounding properties or infrastructure. The local hydraulic model indicates only minor increases in flood levels in select locations (up to approximately 40 mm) external to the site, with no increase in flood extent, confirming that flood behaviour remains consistent with existing conditions. Modelling results show that water level increases in the modelled events do not show increases in flood levels on existing dwellings / buildings or areas zoned for redevelopment

Based on the updated hydraulic modelling outcomes, flood depths across the subject site in the 1% AEP Regional climate change event are below the threshold used to define the High Flood Risk Area under Logan City Council's flood mapping. Accordingly, the development footprint does not fall within the High Flood Risk Area as defined by the adopted mapping criteria.

The reporting and modelling have been completed to address the relevant outcomes and requirements of the Economic Development Act 2012, Greater Flagstone Priority Development Area Development Scheme, State Planning Policy July 2017, Logan City Council Planning Scheme Version 9.2, Logan City Council Temporary Local Planning Instrument No. 1 / 2024, Queensland Urban Drainage Manual, Australian Rainfall and Runoff, and TMR's Road Planning and Design Manual.

Overall, the results demonstrate that the proposed development will not cause adverse flood impacts in either the local or regional flood events assessed and will not result in net material worsening to, future developable land, surrounding infrastructure, or the State-controlled road corridor.

As this application relates to Reconfiguring a Lot only, any use-specific flood emergency management, evacuation planning or operational safety measures will be assessed and conditioned at MCU and Operational Works stage, when final land uses, finished floor levels and detailed access arrangements are confirmed

Appendix A – Proposed Plans of Development

PROPOSED DEVELOPMENT AT

4745-4759 & 4761-4773 MOUNT LINDESAY HWY
NORTH MACLEAN, QUEENSLAND
LOT S7 & 8 ON RP137101
PROJECT No. BE220566-DA
DA APPLICATION

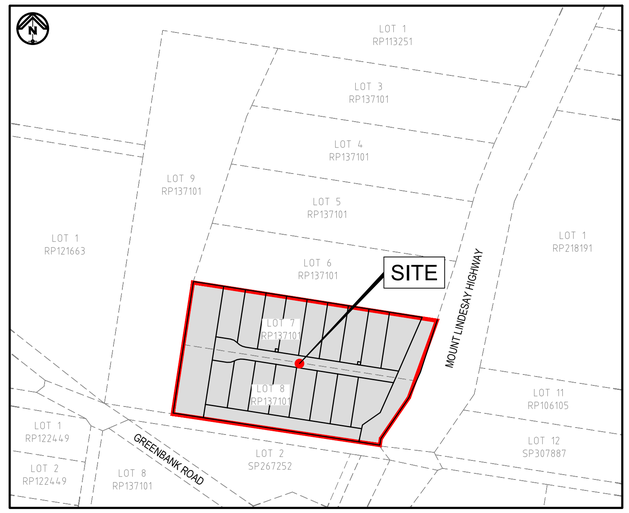


LOCALITY PLAN

N.T.S.

DRAWING INDEX		
DRG. No.	DRAWING TITLE	REVISON
C1000	COVER SHEET, LOCALITY PLAN & DRAWING INDEX	D
C1101	OVERALL LAYOUT PLAN	D
C2000	GENERAL NOTES AND TYPICAL DETAILS	C
C2101	EARTHWORKS LAYOUT PLAN	D
C2301	EARTHWORKS SECTIONS	C
C3201	20m INDUSTRIAL ACCESS ROAD - LONGITUDINAL SECTION	C
C5101	COMBINED SERVICES LAYOUT PLAN	D
C9000	HAZARD RISK REGISTER - DESIGN RISKS	B

SURVEY	
PROVIDED BY:	SUNRISE SURVEY
REPORT No:	22095 4001 001-A
DATE:	11-10-2024
SYSTEM:	MGA2020 ZONE 56



NEIGHBOURHOOD PLAN

N.T.S.

PREPARED FOR

ROUBAIX PROPERTIES

ROUBAIX PROPERTIES PTY LTD

PREPARED BY

BURCHILLS ENGINEERING SOLUTIONS

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FAX: +61 7 5509 6411
EMAIL: ADMIN@BURCHILLS.COM.AU
COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:	DATE :
BE220566-DA	C1000	D	10-06-26

LEGEND

- 27.25 — DESIGN SURFACE CONTOURS
- 27.0 — EXISTING SURFACE CONTOURS
- EXISTING LOT BOUNDARY
- SW — EXISTING STORMWATER
- S — EXISTING SEWER
- OH — EXISTING OVERHEAD ELECTRIC
- C — EXISTING COMMS
- EXISTING ROAD CONTROL LINE
- EXISTING KERB
- EXISTING EDGE OF BITUMEN
- DEVELOPMENT SITE BOUNDARY
- PROPOSED LOT BOUNDARY
- 50m BUFFER AREA
- DEVELOPMENT SITE AREA



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OVERALL LAYOUT PLAN

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VER.	DESCRIPTION	DATE
D	RESPONSE TO OUTSTANDING MATTERS	10-06-26
C	AMENDED KERB RETURN	21-10-25
B	CHANGE TO LAYOUT	24-06-25
A	ISSUE FOR APPROVAL	24-02-25

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COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT : ROUBAIX PROPERTIES PTY LTD

DRAWING TITLE : OVERALL LAYOUT PLAN

PROJECT : DEVELOPMENT APPROVAL
4745-4759 & 4761-4773 MOUNT LINDESAY HWY

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
10 0 5 10 15 20 25 30 35m
1 : 750 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 10-06-26
PROJECT LEADER : JACK SHAO	DESIGNER : CARL KRUGER
DRAFTSPERSON : CARL KRUGER	CHECKED : JACK SHAO

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE220566-DA	C1101	D

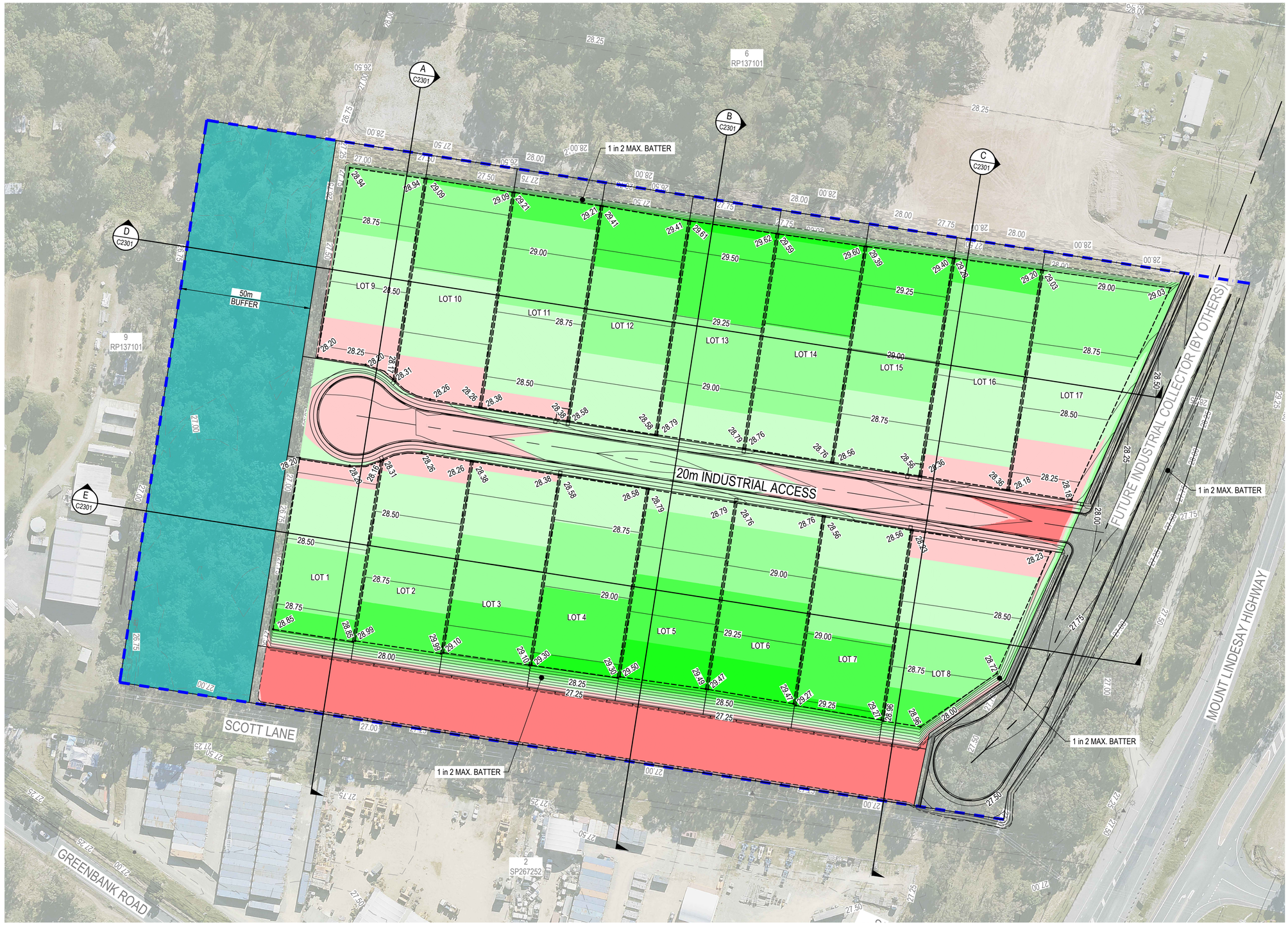
LEGEND

- 27.25 — DESIGN SURFACE CONTOURS
- 27.0 — EXISTING SURFACE CONTOURS
- EXISTING LOT BOUNDARY
- SW — SW — EXISTING STORMWATER
- EXISTING EDGE OF BITUMEN
- DEVELOPMENT SITE BOUNDARY
- PROPOSED LOT BOUNDARY
- 50m BUFFER AREA

CONCEPT BULK EARTHWORKS SUMMARY	
STRUCTURAL FILLING	
AREA	NETT SOLID FILL
OVERALL FILLING	32,948 cu.m.
EXCAVATION	
AREA	NETT CUT
OVERALL EXCAVATION	4,789 cu.m.

SUMMARY:
32,948 cu.m - 4,789 cu.m = 28,159 cu.m IMPORTED MATERIAL
NO ALLOWANCE FOR BOXING HAS BEEN CONSIDERED
NO ALLOWANCE HAS BEEN MADE FOR TOPSOIL STRIP / REPLACEMENT.
NO ALLOWANCE FOR COMPACTION HAS BEEN CONSIDERED

EARTHWORKS DEPTH ANALYSIS LEGEND			
LOWER		UPPER	COLOUR
-4.0m	TO	-3.5m	
-3.5m	TO	-3.0m	
-3.0m	TO	-2.5m	
-2.5m	TO	-2.0m	
-2.0m	TO	-1.5m	
-1.5m	TO	-1.0m	
-1.0m	TO	-0.5m	
-0.5m	TO	0.0m	
0.0m	TO	0.5m	
0.5m	TO	1.0m	
1.0m	TO	1.5m	
1.5m	TO	2.0m	
2.0m	TO	2.5m	
2.5m	TO	3.0m	
3.0m	TO	3.5m	
3.5m	TO	4.0m	



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C	AMENDED KERB RETURN	21-10-25
B	CHANGE TO LAYOUT	24-06-25
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ABN 76 166 942 365

CLIENT :
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DRAWING TITLE :
EARTHWORKS LAYOUT PLAN

PROJECT :
DEVELOPMENT APPROVAL
4745-4759 & 4761-4773 MOUNT LINDESAY HWY

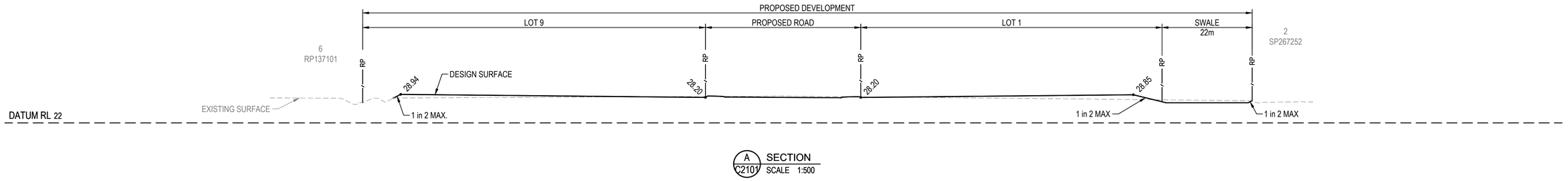
PRELIMINARY
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SCALE AT FULL SIZE (A1) :
10 0 5 10 15 20 25 30 35m
1 : 750 (FULL SIZE)

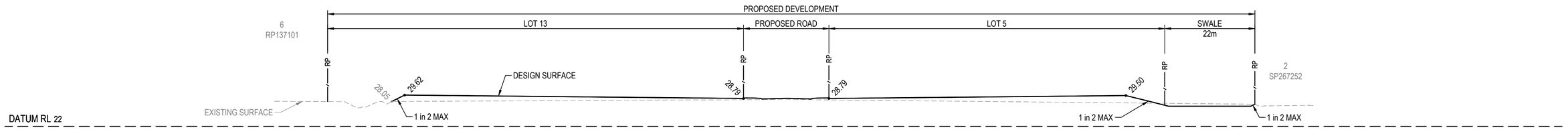
DEVEL. APPLIC. No. :	DATE : 10-06-26
PROJECT LEADER : JACK SHAO	DESIGNER : CARL KRUGER
DRAFTSPERSON : CARL KRUGER	CHECKED : JACK SHAO

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

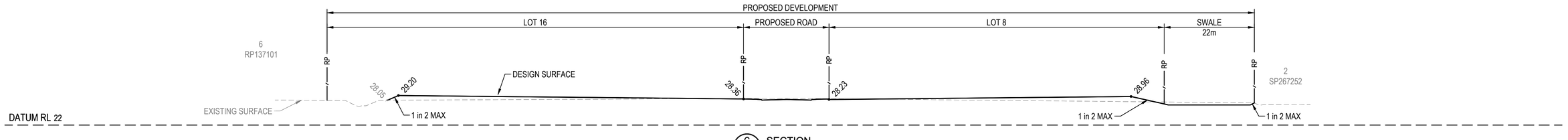
PROJECT No.:	DRAWING No. :	VERSION:
BE220566-DA	C2101	D



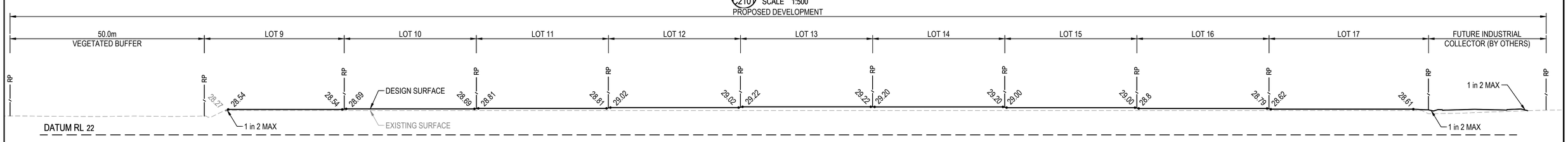
A SECTION
C2101 SCALE 1:500



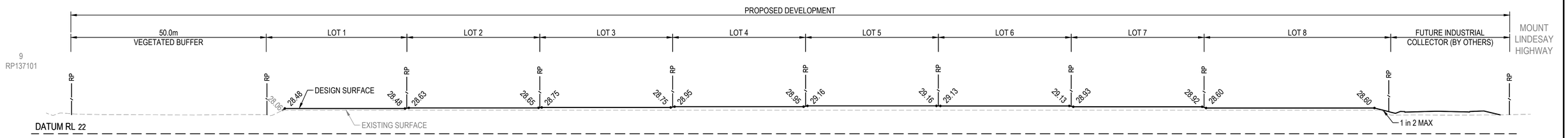
B SECTION
C2101 SCALE 1:500



C SECTION
C2101 SCALE 1:500



D SECTION
C2101 SCALE 1:500



E SECTION
C2101 SCALE 1:500

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VER.	DESCRIPTION	DATE
C	RESPONSE TO OUTSTANDING MATTERS	10-06-26
B	CHANGE TO LAYOUT	24-06-25
A	ISSUE FOR APPROVAL	24-02-25

BURCHILLS ENGINEERING SOLUTIONS
GOLD COAST | BRISBANE | TOOWOOMBA
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COOTE BURCHILLS ENGINEERING PTY LTD
ABN 76 166 942 365

CLIENT :
ROUBAIX PROPERTIES PTY LTD

DRAWING TITLE :
EARTHWORKS SECTIONS

PROJECT :
DEVELOPMENT APPROVAL
4745-4759 & 4761-4773 MOUNT LINDESAY HWY

PRELIMINARY
NOT FOR CONSTRUCTION OR TENDER

SCALE AT FULL SIZE (A1) :
5 0 5 10 15 20 25m
1 : 500 (FULL SIZE)

DEVEL. APPLIC. No. :	DATE : 10-06-26
PROJECT LEADER : JACK SHAO	DESIGNER : CARL KRUGER
DRAFTSPERSON : CARL KRUGER	CHECKED : JACK SHAO

APPROVED FOR AND ON BEHALF OF
BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365

PROJECT No.:	DRAWING No. :	VERSION:
BE220566-DA	C2301	C



Issue	Description	Date	Surveyor	Locator	Drafter	Checked
A	First Issue	12/09/2025	LJM	NA	MJI	MJI
B	Added PMT sites to Lots 11 & 15	22/01/2026	LJM	NA	MJI	MJI
C	Added Lots 100 & 901 and Easements	11/06/2026	LJM	NA	MJI	MJI
D	Remove lots 100 & 901 add Easements R & S	13/06/2026	LJM	NA	MJI	MJI

NOTES:

PURPOSE OF PLAN
This plan represents the proposed Lots, their dimensions and areas.

PROPERTY BOUNDARIES
The surrounding subject property boundaries shown on this plan are plotted from the Surround Survey as per IS337179
The layout is based on the Preliminary Design plans from Burchills Engineering Solutions
- BE220566-DA C1101 Version D dated 10/06/2026 and
- BE220566-DA C5101 Version D 10/06/2026

SECONDARY INTERESTS
Easements A-R are for drainage purposes, in favour of upstream lots
Easement T is for drainage purposes, in favor of Council
Easements and Covenants are yet to be finalised, awaiting OPW approval
Secondary Interests Table to be provided once confirmed

ROAD NAMES.
Road names are yet to be approved by Logan City Council

PMT/RMU sites yet to be finalised and Easements added (if required)

CLIENT:

Logan-Flagstone INDUSTRIAL

SUNRISE SURVEYING

Brisbane (Head Office) admin@sunrisesurveying.com.au
Sunshine Coast admin@sunrisesurveying.com.au
Toowoomba admin@sunrisesurveying.com.au
Rockhampton admin@sunrisesurveying.com.au
Yeppoon reception@sunrisesurveying.com.au

Hz Datum: MGA2020 z56 (Ground)
Hz Origin: PSM196908
Easting: 500,871.951
Northing: 6,927,729.973
Scale Factor MGA to Ground 1.040445

Surveyed: September 2025
Contour Interval: NA
Vertical Datum: AHD
Vertical Origin: PSM196908
Origin RL: 27.348m

12 6 0 6 12 18 24 30
SCALE IN METERS AT ORIGINAL REDUCTION RATIO

NORTH

PAGE SIZE A1

SCALE 1:600

PROJECT LOGAN FLAGSTONE INDUSTRIAL

LOT CALCULATIONS PLAN of LOTS 1-17 and EMTS A-T
Canceling Lots 7 & 8 on RP137101
NORTH MACLEAN, LOGAN CITY COUNCIL

© Copyright protects this plan

SHEET 1 OF 1 PLAN 22095 5002 001 Issue D

Appendix B – Rational Method Calculations

Design storm event flows across the site were derived using the Rational Method in accordance with QUDM. This involved:

- Determination of a C10 value (derived in accordance with QUDM Table 4.05.3(b) and Council guidelines).
- Adoption of design rainfall using BoM IFD data; and
- Calculation of design flows through the site for Q100, Q50, Q20, Q10, Q5, Q2, Q1 and $Q3_{month}$, where $Q3_{month}$ is deemed to be 50% of Q1.

Summaries of the hydrologic calculations are contained in the following table for the pre-development scenario.

Catch.	Area (ha)	tc (min)	I_{100} (mm/hr)	C	Q_{100} (m^3/s)
Cat 01	7.57	22.0	2.72	2.77	1.8
Cat 02	26.32	34.4	7.44	7.61	2.1
Cat 03	22.71	27.9	7.15	7.18	0.4
Cat 04	28.64	18.3	11.25	13.20	14.7
Cat 05	6.80	9.7	3.49	3.82	8.6
Cat 06	37.17	39.9	9.63	9.56	-0.8
Cat 07	20.951	35.8	5.80	5.88	1.3
Cat 08	15.430	30.7	4.61	4.75	3.1
Cat 09	4.047	32.6	1.17	1.25	6.1
Cat 10	8.010	19.7	3.04	3.14	3.2

Appendix C – DRAINS Input Parameters

DRAINS (version 2025.01) software was utilised to model the performance of the proposed stormwater quantity control measures. This modelling software is a link-node model capable of performing hydrology and hydraulic of stormwater drainage systems simultaneously.

The WBNM storage routing model has been adopted for Design and Analysis Runs within DRAINS. This Method uses ARR2019 Rational Method Procedure, the Lag Parameter for catchment data and separate pervious and impervious areas, as shown in.

Table C. 2 DRAINS Catchment Parameters

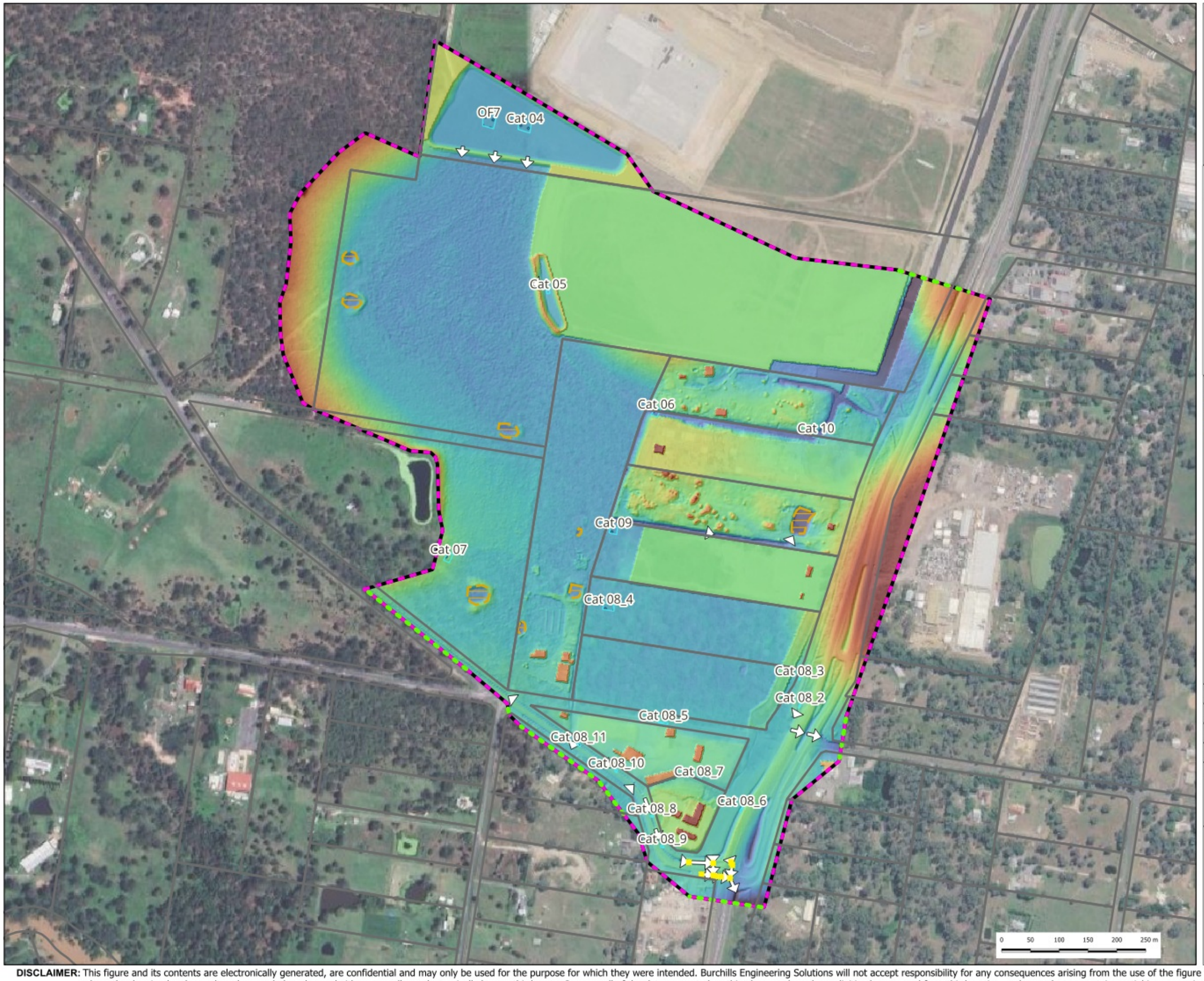
Catchment	Area (ha)	Fraction Impervious (%)
Cat 01	7.57	10
Cat 02	26.32	10
Cat 03	27.707	10
Cat 04	28.642	90
Cat 05	6.8	90
Cat 06	37.173	10
Cat 07	20.951	10
Cat 08	15.43	9
Cat 09	4.047	10
Cat 10	8.01	10

Appendix D – Model Features Map – Local TUFLOW Model

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4733-4743 MT LINDESAY HWY

Figure D01
TUFLOW Model Features Map - Pre



N



Location of the site within the Logan City

Legend

- Model Extent
- 2d_Initial Water Level
- Downstream Boundary
- Inflow Boundary
- Cadastral
- Rainfall Area
- Existing Pipe
- Existing Pit

Surface Elevation (mAHD)

- 25.00
- 26.00
- 27.00
- 28.00
- 29.00
- 30.00
- 31.00
- 32.00

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

BURCHILLS ENGINEERING SOLUTIONS

FOR

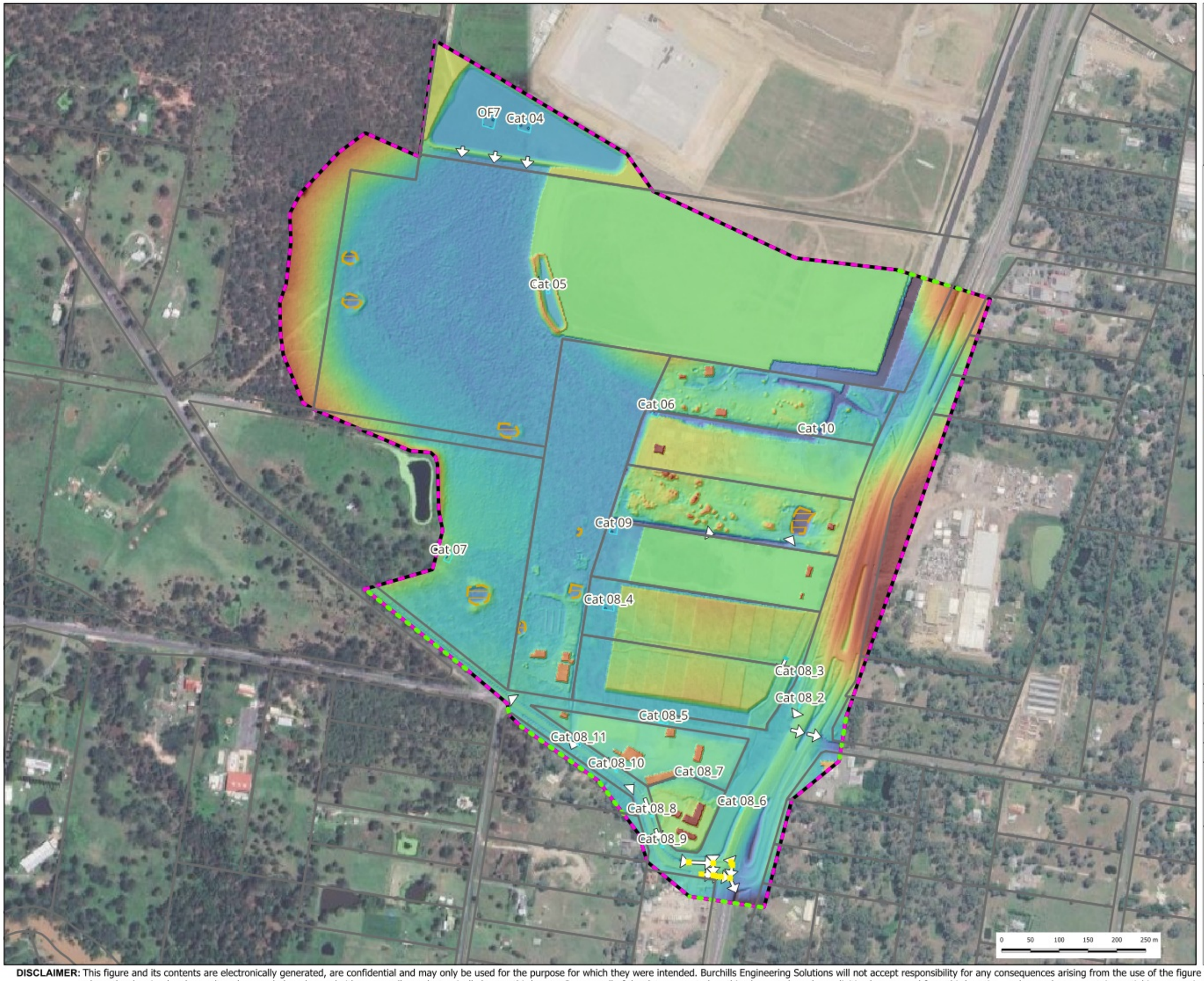
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NO 4705 PTY LTD

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Figure D03
TUFLOW Model Features Map - Post



N



Location of the site within the Logan City

Legend

- Model Extent
- 2d_Initial Water Level
- Downstream Boundary
- Inflow Boundary
- Cadastral
- Rainfall Area
- Existing Pipe
- Existing Pit

Surface Elevation (mAHD)

- 25.00
- 26.00
- 27.00
- 28.00
- 29.00
- 30.00
- 31.00
- 32.00

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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FIG 03 PRE - DEVELOPMENT TUFLOW MANNING MAP

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Manning Value (n)

- Buildings (n=0.1)
- Dense Tree (n=0.07)
- Existing Road (n=0.014)
- Scattered Scrub (n=0.05)
- Water body (n=0.022)
- Swales (n=0.06)

0 50 100 150 200 250 m

Project:	BE220566
Date:	03/11/2025
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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FIG 03 POST - DEVELOPMENT TUFLOW MANNING MAP

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Manning Value (n)

- Buildings (n=0.1)
- Dense Tree (n=0.07)
- Existing Road (n=0.014)
- Scattered Scrub (n=0.05)
- Water body (n=0.022)
- Swales (n=0.06)

0 50 100 150 200 250 m

Project:	BE220566
Date:	03/11/2025
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Appendix E – Hydraulic Model Results – Local

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Figure E01
Existing 10% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E02
Existing 5% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E03
Existing 1% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E04
Existing 0.5% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E05
Existing 0.2% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E06
Existing 0,05% AEP - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E07
Existing PMF - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure E08
Existing 10% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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4733-4743 MT LINDESAY HWY

Figure E09
Existing 5% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure E10
Existing 1% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure E11
Existing 10% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure E12
Existing 5% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure E13
Existing 1% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure E14
Existing 0.5% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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4733-4743 MT LINDESAY HWY

Figure E15
Existing 0.2% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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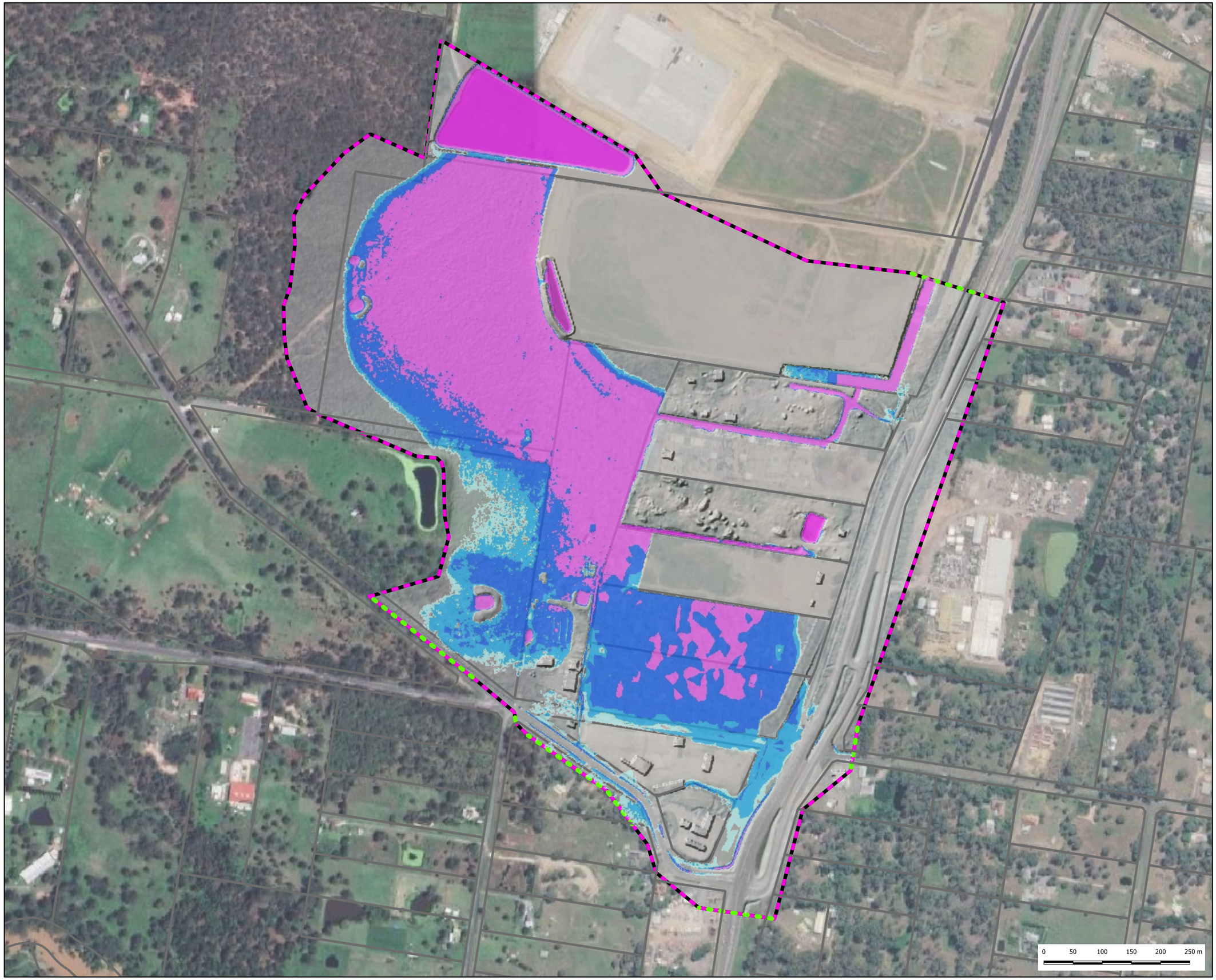
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Figure E16
Existing 0,05% AEP - Depth





Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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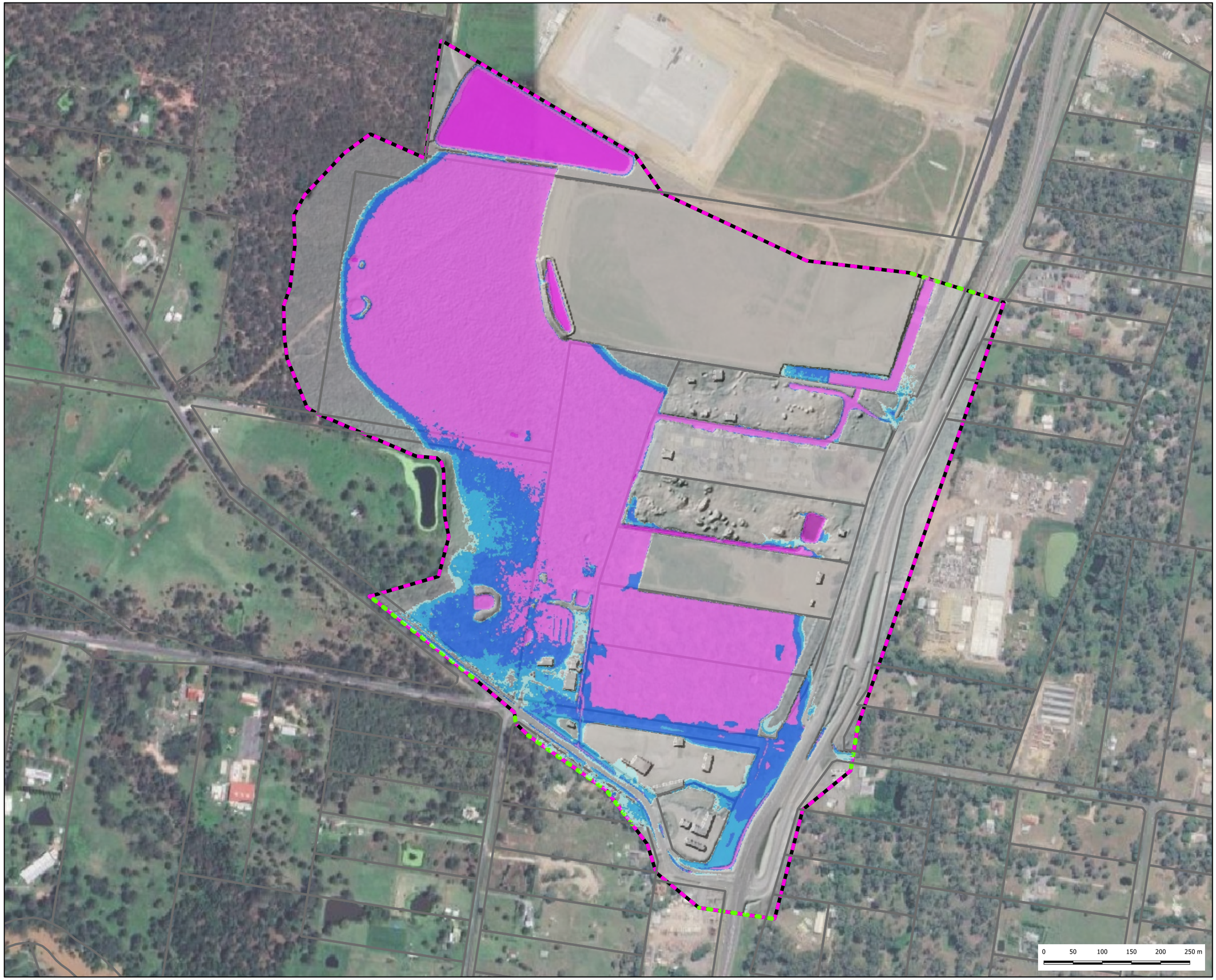
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Figure E17
Existing PMP - Depth





Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure E18
Existing 10% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E19
Existing 5% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E20
Existing 1% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
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Figure E21
Existing 0.5% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure E22
Existing 0.2% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E23
Existing 0,05% AEP - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure E24
Existing PMP - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure F01
Developed 10% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure F02
Developed 5% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure F03
Developed 1% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure F04
Developed 0.5% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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Figure F05
Developed 0.2% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure F06
Developed 0,05% AEP - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F07
Developed PMP - Water Surface Level

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Level (mAHD)

- <= 27.00
- 27.00 - 27.10
- 27.10 - 27.20
- 27.20 - 27.30
- 27.30 - 27.40
- 27.40 - 27.50
- > 27.50

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure F08
Developed 10% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F09
Developed 5% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F10
Developed 1% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure F11
Developed 10% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F12
Developed 5% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F13
Developed 1% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure F14
Developed 0.5% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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DEVELOPMENT APPROVAL
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Figure F15
Developed 0.2% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure F16
Developed 0,05% AEP - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure F17
Developed PMF - Depth

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F18
Developed 10% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F19
Developed 5% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F20
Developed 1% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure F21
Developed 0.5% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure F22
Developed 0.2% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Cadastral
- Downstream Boundary

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure F23
Developed 0,05% AEP - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure F24
Developed PMF - Hazard

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure G01
Water Level Afflux - 10% AEP CC

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure G02
Water Level Afflux - 5% AEP CC

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure G03
Water Level Afflux - 1% AEP CC

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure G04
Water Level Afflux - 0.5% AEP CC

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

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DEVELOPMENT APPROVAL
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Figure G05
Water Level Afflux - 0.2% AEP CC

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure G06
Water Level Afflux - 0,05% AEP

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure G07
Water Level Afflux - PMF

N



Location of the site within the Logan City

Legend

- Model Extent
- Downstream Boundary
- Cadastral

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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Appendix F – Hydraulic Model Results - Regional

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Figure H01 - Regional Existing 1% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

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DEVELOPMENT APPROVAL
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Figure H02 - Regional Existing 0.5% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H03 - Regional Existing 0.2% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
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Figure H04 - Regional Existing 0,05% AEP - Water Surface Level

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
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Figure H05 - Regional Existing PMF - Water Surface Level

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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Figure H06 - Regional Existing 1% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
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Figure H07 - Regional Existing 0.5% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H08 - Regional Existing 0.2% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

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Figure H09 - Regional Existing 0,05% AEP - Velocity

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
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Figure H10 - Regional Existing PMF - Velocity

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H11 - Regional Existing 1% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H12 - Regional Existing 0.5% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H13 - Regional Existing 0.2% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

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DEVELOPMENT APPROVAL
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Figure H14 - Regional Existing 0,05% AEP - Depth

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
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Figure H15 - Regional Existing PMF - Depth

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H16 - Regional Existing 1% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H17 - Regional Existing 0.5% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566
Date: 15/06/2026
Scale: 1:6000 at A3
Projection: GDA94 / MGA zone 56
Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
NO 4705 PTY LTD

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DEVELOPMENT APPROVAL
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Figure H18 - Regional Existing 0.2% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H19 - Regional Existing 0,05% AEP - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
NO 4705 PTY LTD

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure H20 - Regional Existing PMF - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
NO 4705 PTY LTD

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I01 - Regional Developed 1% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I02 - Regional Developed 0.5% AEP Climate Change - Water Surface Level

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Level (mAHD)

- <= 21.25
- 21.25 - 22.50
- 22.50 - 23.75
- 23.75 - 25.00
- 25.00 - 26.25
- 26.25 - 27.50
- 27.50 - 28.75
- > 28.75

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I03 - Regional Developed 1% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
NO 4705 PTY LTD

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I04 - Regional Developed 0.5% AEP Climate Change - Velocity

N



Location of the site within the Logan City

Legend

Cadastral

Project site

Water Velocity (m/s)

- <= 0.025
- 0.025 - 0.050
- 0.050 - 0.075
- 0.075 - 0.100
- 0.100 - 0.125
- 0.125 - 0.150
- 0.150 - 0.175
- 0.175 - 0.200
- > 0.200

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

FOR

ROUBAIX PROPERTIES
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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I05 - Regional Developed 1% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I06 - Regional Developed 0.5% AEP Climate Change - Depth

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Depth (m)

- <= 0.0
- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I07 - Regional Developed 1% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure I08 - Regional Developed 0.5% AEP Climate Change - Hazard

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Hazard

- H1
- H2
- H3
- H4
- H5
- H6

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

BURCHILLS ENGINEERING SOLUTIONS

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure J01 - Regional Water Level Afflux - 1% AEP CC

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project:	BE220566
Date:	15/06/2026
Scale:	1:6000 at A3
Projection:	GDA94 / MGA zone 56
Data Sources:	

BURCHILLS ENGINEERING SOLUTIONS

FOR

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DEVELOPMENT APPROVAL
4733-4743 MT LINDESAY HWY

Figure J02 - Regional Water Level Afflux - 0.5% AEP CC

N



Location of the site within the Logan City

Legend

- Cadastral
- Project site

Water Impact (m)

- <= -0.1
- -0.1 - -0.05
- -0.05 - -0.03
- -0.03 - -0.02
- -0.02 - -0.01
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.04
- 0.04 - 0.06
- 0.06 - 0.08
- 0.08 - 0.1
- 0.1 - 0.2
- Was Wet Now Dry
- Was Dry Now Wet

0 50 100 150 200 250 m

Project: BE220566

Date: 15/06/2026

Scale: 1:6000 at A3

Projection: GDA94 / MGA zone 56

Data Sources:

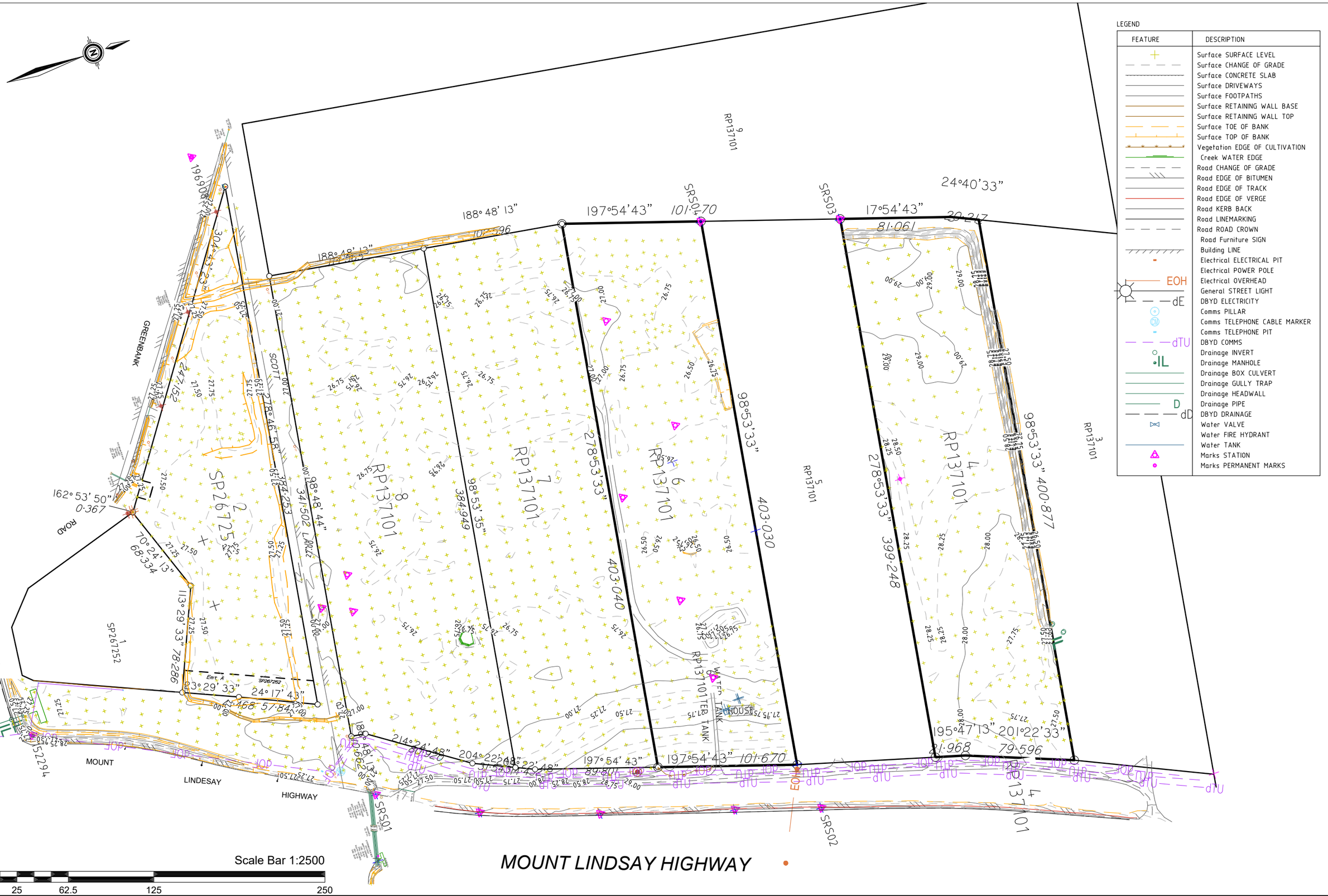
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Appendix G – Survey Provided by Sunrise Surveying



REV.	DATE	DESCRIPTION	DRAWN	SURV	CHKD
A	11/10/24	Issue to Cleint	11/10/24	MAB	MC

SUNRISE SURVEYING

Brisbane (Head Office)
Ground Floor, 18 Finchley St, Milton
admin@sunrisesurveying.com.au
Toowoomba
Tenancy 1, 4 Laurel St, Toowoomba
toowoomba@sunrisesurveying.com.au
Rockhampton
Level 1, 159 Denison St, Rockhampton
rockhampton@sunrisesurveying.com.au
Yeppoon
47 Normanby St, Yeppoon
yeppoon@sunrisesurveying.com.au

CLIENT.

PROJECT.
Mt Lindsay Highway
Maclean

HORIZONTAL DATUM.
MGA2020 Zone 56 (Ground)
Vide PSM 196908

VERTICAL DATUM.
AHD D
Vide PSM 196908
RL: 27.348

DRAWING DESCRIPTION.
Detail Survey
Combined Data over Various Lots

Sheet 1 of 1

DRAWING NAME:
22095 4001 001-A

SCALE.
1: 2500 @ A3

SITE ADDRESS.

LOCAL AUTHORITY
Logan City Council

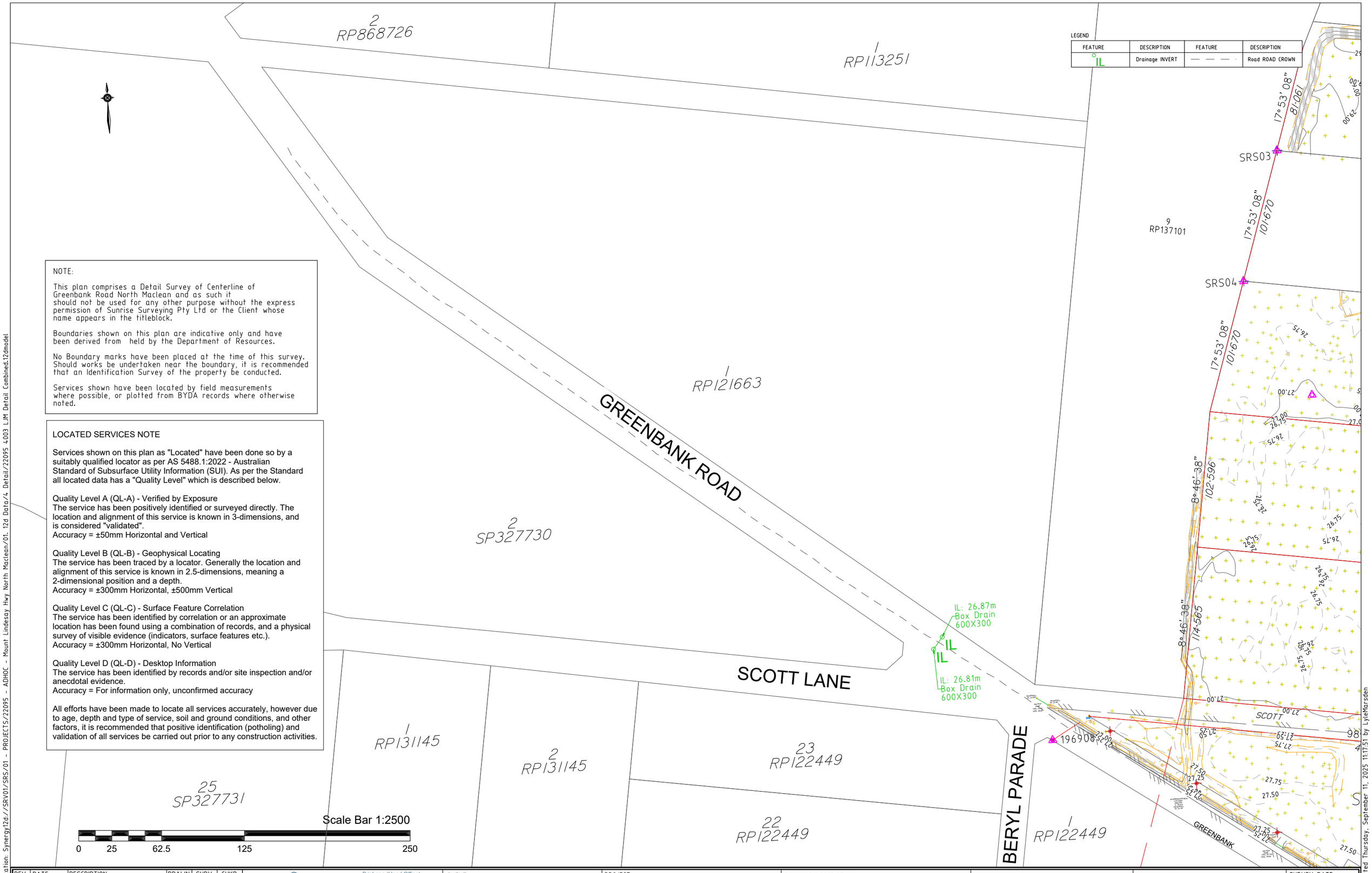
SURVEY DATE
-

CONTOUR INTERVAL
Minor: 0.25
Major: 1

REV
A

Project Location: Synergy12d://SRV01/SRS/01 - PROJECTS/22095 - ADHOC - Mount Lindesay Hwy North Maclean/01. 12d Data/4. Detail/22095 4001 MTC Detail 240927.12dmodel

Drawing Plotted Friday, October 11, 2024 17:42:23 by MeghanBowman



LEGEND

FEATURE	DESCRIPTION	FEATURE	DESCRIPTION
IL	Drainage INVERT		Road ROAD CROWN

NOTE:

This plan comprises a Detail Survey of Centerline of Greenbank Road North Maclean and as such it should not be used for any other purpose without the express permission of Sunrise Surveying Pty Ltd or the Client whose name appears in the titleblock.

Boundaries shown on this plan are indicative only and have been derived from held by the Department of Resources.

No Boundary marks have been placed at the time of this survey. Should works be undertaken near the boundary, it is recommended that an Identification Survey of the property be conducted.

Services shown have been located by field measurements where possible, or plotted from BYDA records where otherwise noted.

LOCATED SERVICES NOTE

Services shown on this plan as "Located" have been done so by a suitably qualified locator as per AS 5488.1:2022 - Australian Standard of Subsurface Utility Information (SUI). As per the Standard all located data has a "Quality Level" which is described below.

Quality Level A (QL-A) - Verified by Exposure
The service has been positively identified or surveyed directly. The location and alignment of this service is known in 3-dimensions, and is considered "validated".
Accuracy = ±50mm Horizontal and Vertical

Quality Level B (QL-B) - Geophysical Locating
The service has been traced by a locator. Generally the location and alignment of this service is known in 2.5-dimensions, meaning a 2-dimensional position and a depth.
Accuracy = ±300mm Horizontal, ±500mm Vertical

Quality Level C (QL-C) - Surface Feature Correlation
The service has been identified by correlation or an approximate location has been found using a combination of records, and a physical survey of visible evidence (indicators, surface features etc.).
Accuracy = ±300mm Horizontal, No Vertical

Quality Level D (QL-D) - Desktop Information
The service has been identified by records and/or site inspection and/or anecdotal evidence.
Accuracy = For information only, unconfirmed accuracy

All efforts have been made to locate all services accurately, however due to age, depth and type of service, soil and ground conditions, and other factors, it is recommended that positive identification (potholing) and validation of all services be carried out prior to any construction activities.

REV.	DATE	DESCRIPTION	DRAWN	SURV	CHKD
A	11/09/25	1st Issue	LJM	LJM	MJI

SUNRISE SURVEYING
Brisbane (Head Office)
Ground Floor, 18 Finchley St, Milton
admin@sunrisesurveying.com.au
Toowoomba
Tenancy 1, 4 Laurel St, Toowoomba
toowoomba@sunrisesurveying.com.au
Rockhampton
Level 1, 159 Denison St, Rockhampton
rockhampton@sunrisesurveying.com.au
Yeppoon
47 Normanby St, Yeppoon
yeppoon@sunrisesurveying.com.au

CLIENT. ROUBAIX PROPERTIES

PROJECT.
GREENBANK RD
DEATIL SURVEY

HORIZONTAL DATUM. MGA2020 Zone 56 (Ground) PM196908
VERTICAL DATUM. AHD PM196908 RL: RL27.348

DRAWING DESCRIPTION.
Greenbank Rd
Centerline Survey

Sheet 1 of 1

DRAWING NAME: 22095 4003 002-A

SCALE. 1: 2500 @ A3

SITE ADDRESS.
Mount Lindesay Hwy
North Maclean

LOCAL AUTHORITY
LOGAN CITY COUNCIL

SURVEY DATE 10/9/25

CONTOUR INTERVAL
Minor: 0.25
Major: 1

REV A

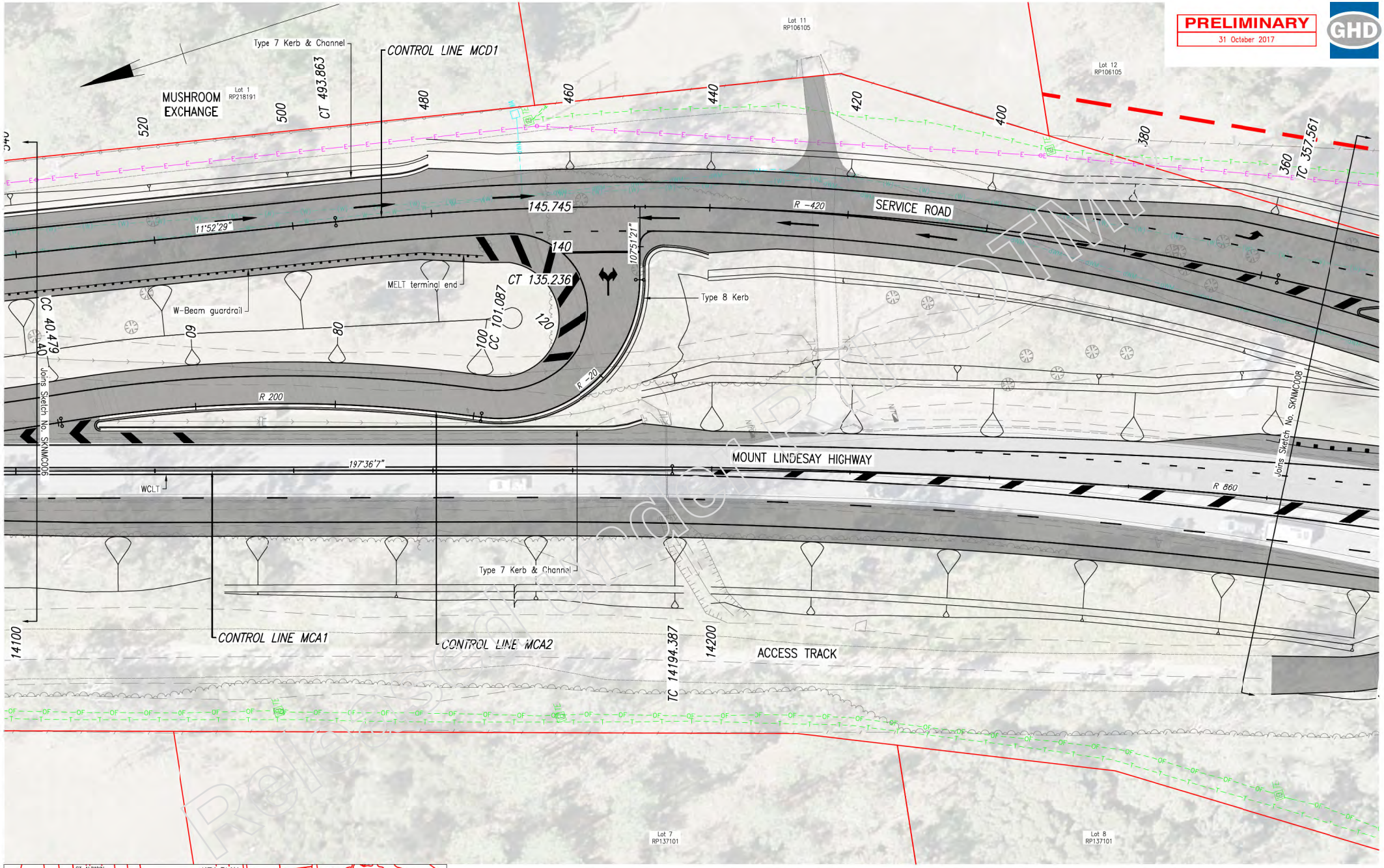
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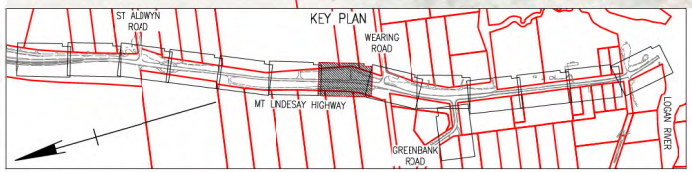
Drawing Plotted Thursday, September 11, 2025 11:17:51 by LyleMarsden

Appendix H – Mount Lindesay Highway, North Maclean Upgrade Plans

PRELIMINARY
31 October 2017

GHD





Scales
0 2 4 6 8 10m

Dimensions shown in metres except where shown otherwise

MOUNT LINDESAY HIGHWAY, NORTH MACLEAN UPGRADE
WORKING PLANS
SHEET 7 OF 14

Approved PI
Date. 28/9/17

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

Job No.	459813
Contract. No.	CN7746
Sketch No.	SKNMC013
Revision No.	1
GHD Job No. 41-31134	

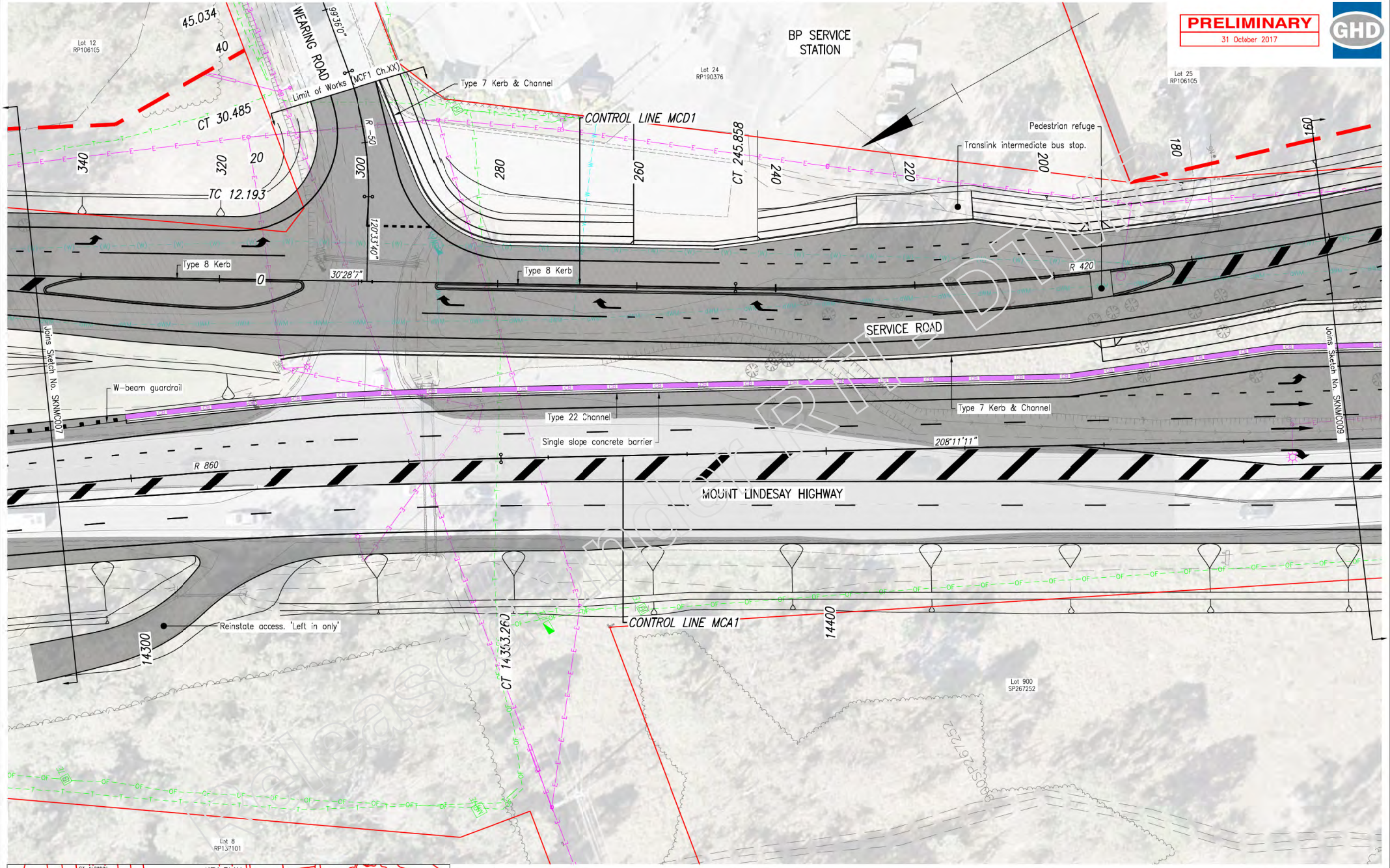
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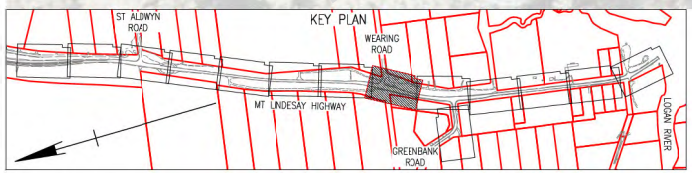
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Released for construction PRELIMINARY

PRELIMINARY
31 October 2017

GHD





Scales
0 2 4 6 8 10m

Dimensions shown in metres except where shown otherwise

MOUNT LINDESAY HIGHWAY, NORTH MACLEAN UPGRADE
WORKING PLANS
SHEET 8 OF 14

Approved	ENGINEERING CERTIFICATION (RPEQ)				
PI	ENG. AREA	NAME	SIGNATURE	NO.	DATE
Date. 28/9/17					

Queensland Government

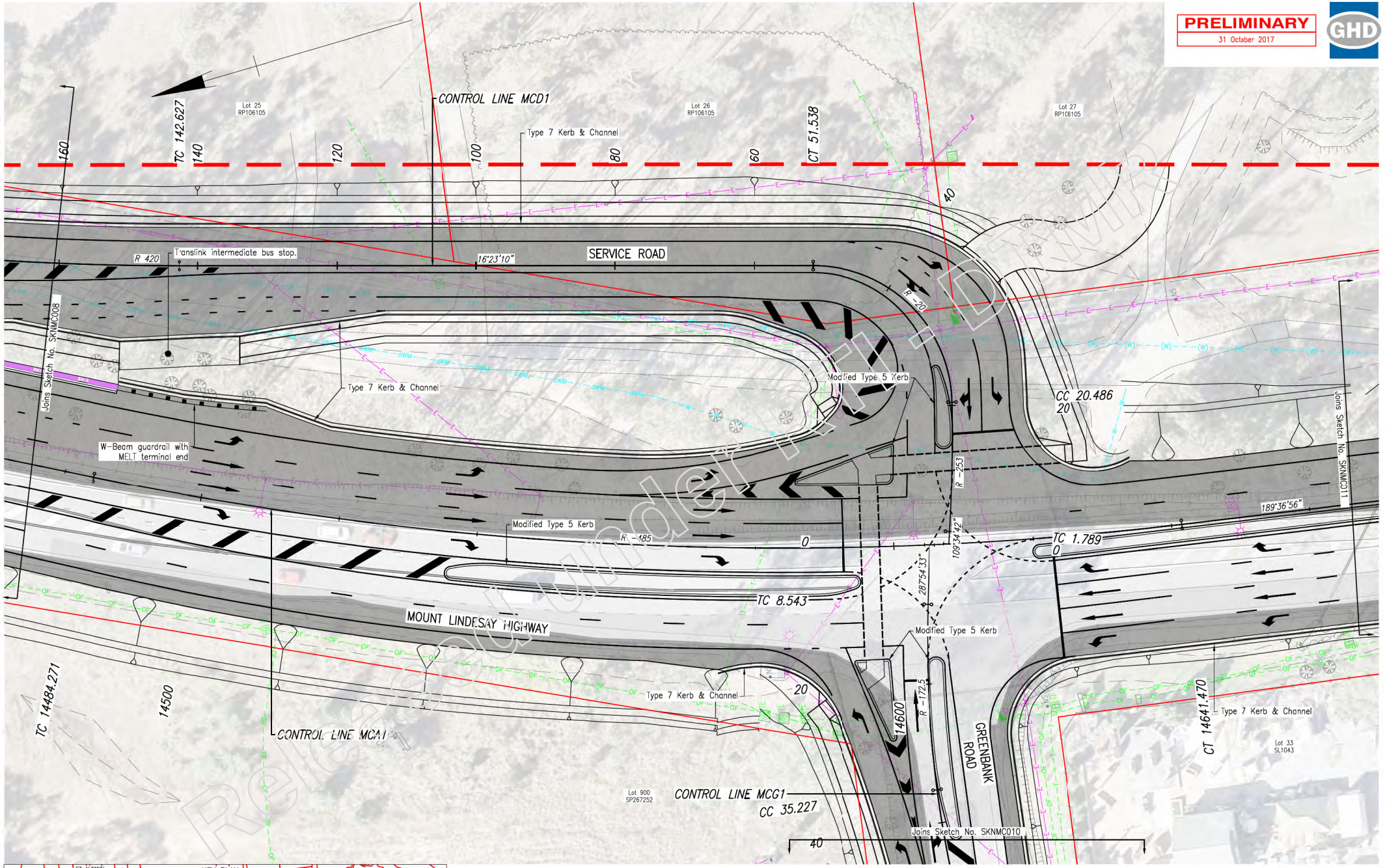
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Contract. No.	CN7746
Sketch No.	SKNMC014
Revision No.	1
GHD Job No. 41-31134	

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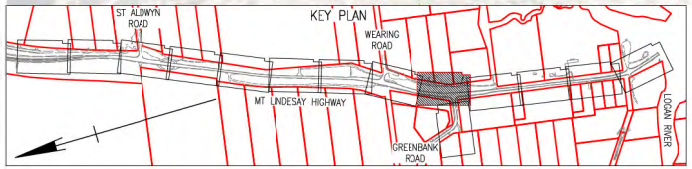
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PRELIMINARY
31 October 2017

GHD



Released under FTD



Scales
0 2 4 6 8 10m

Dimensions shown in metres except where shown otherwise

MOUNT LINDESAY HIGHWAY, NORTH MACLEAN UPGRADE
WORKING PLANS
SHEET 9 OF 14

Approved: PI
Date: 28/9/17

ENGINEERING CERTIFICATION (RPEQ)				
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

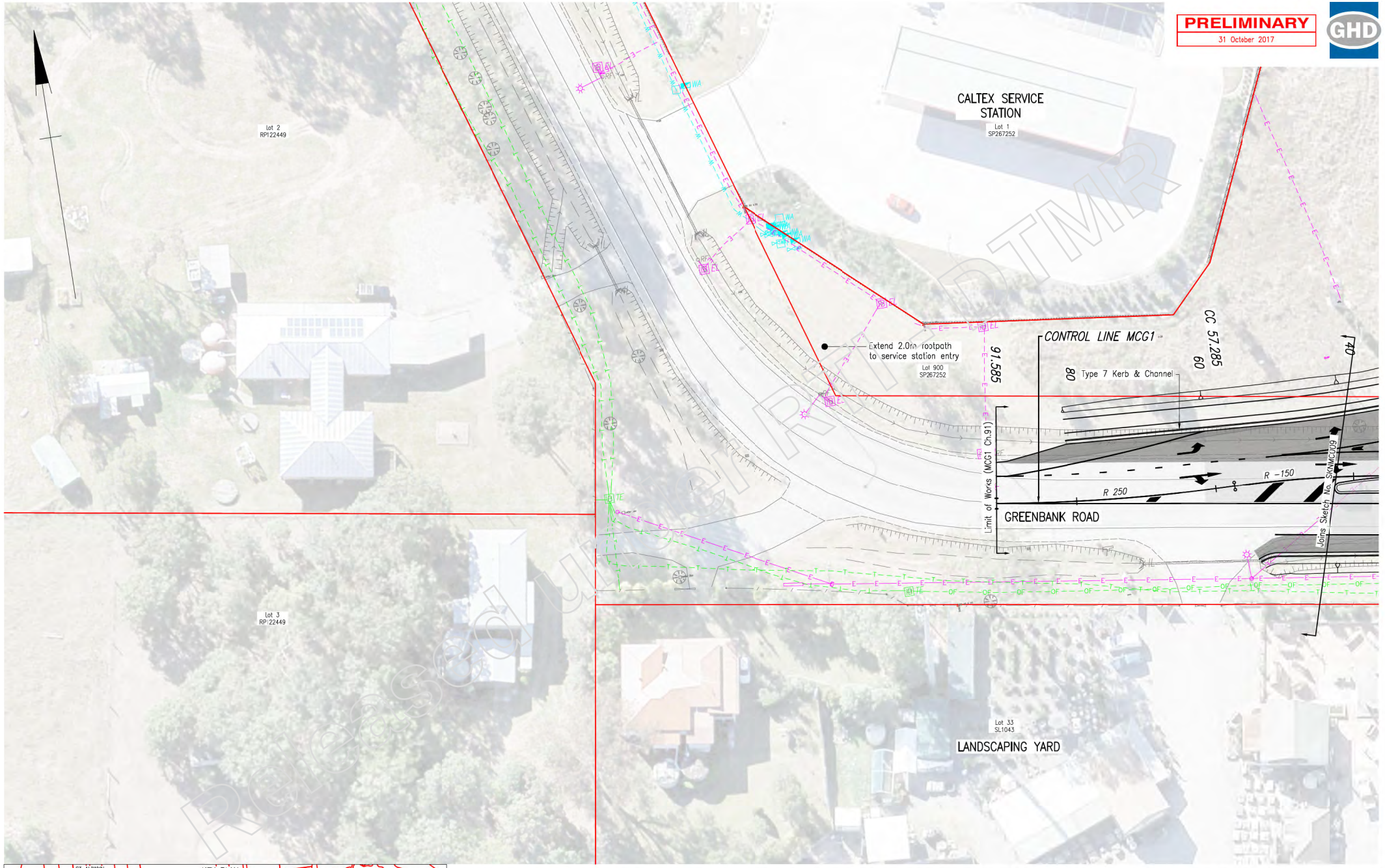
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Contract. No.	CN7746
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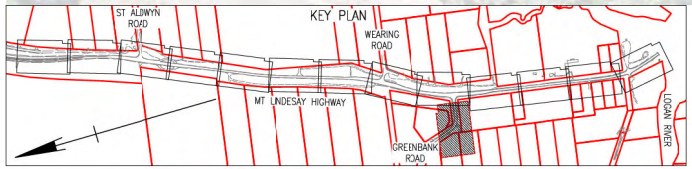
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PRELIMINARY
31 October 2017

GHD





Scales
0 2 4 6 8 10m

Dimensions shown in metres except where shown otherwise

MOUNT LINDESAY HIGHWAY, NORTH MACLEAN UPGRADE
WORKING PLANS
SHEET 10 OF 14

Approved PI

Date 28/9/17

ENGINEERING CERTIFICATION (RPEQ)				
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

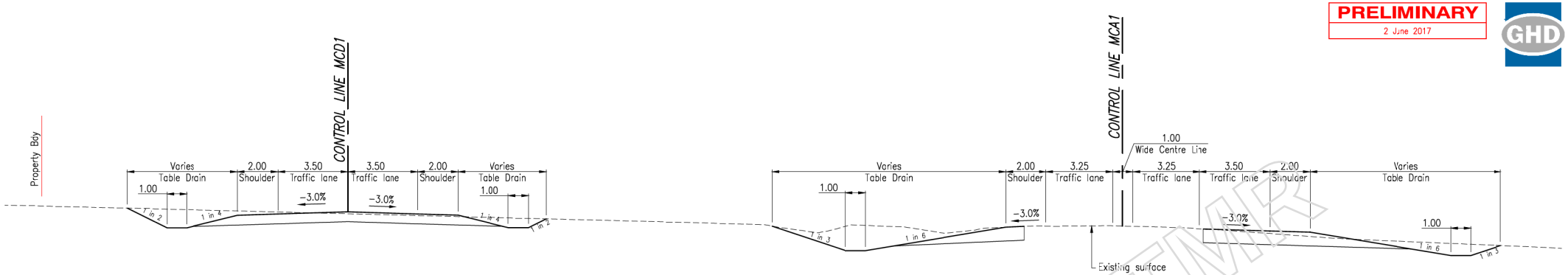
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Revision No.	1
GHD Job No. 41-31134	

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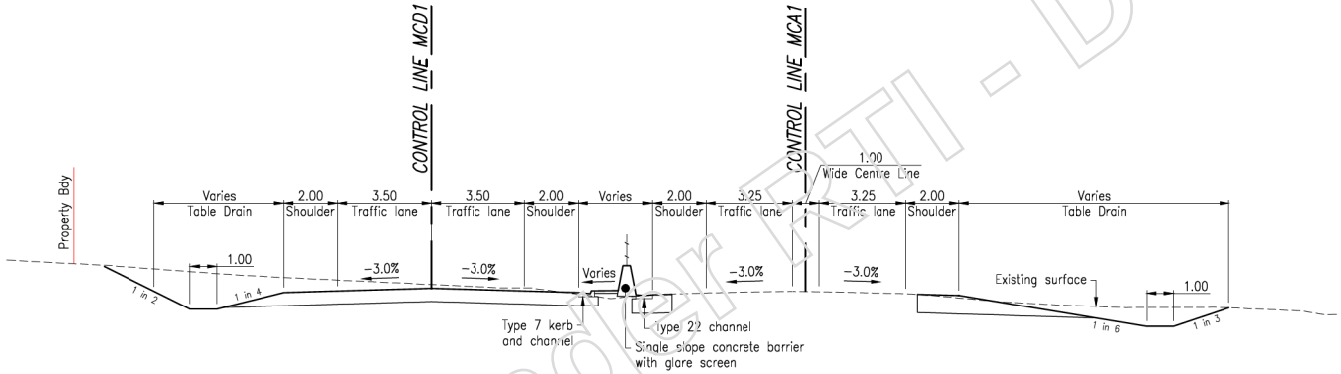
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PRELIMINARY
2 June 2017

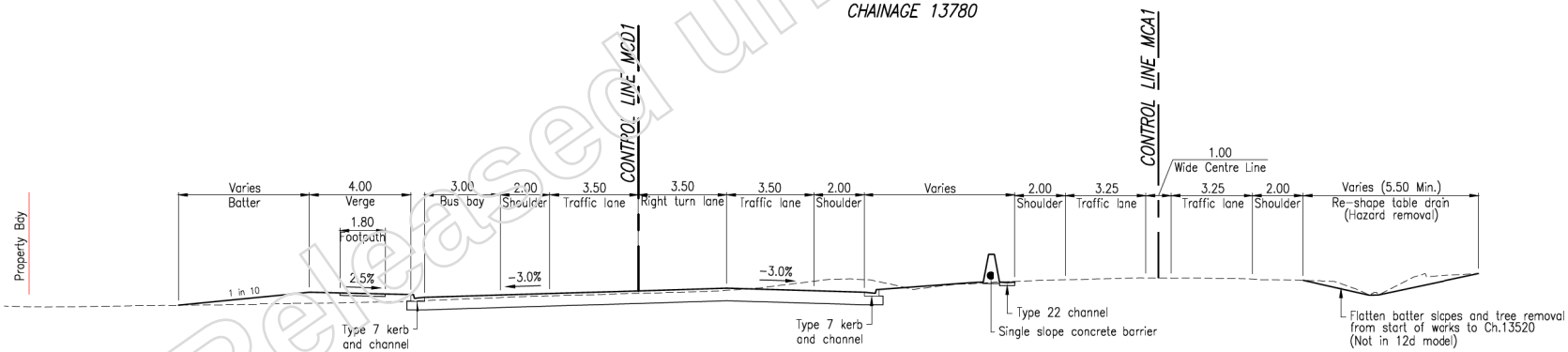
GHD



SECTION C – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 14180



SECTION B – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 13780



SECTION A – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 13480

Released under RTI - DTMR

Revisions/Descriptions	Certification	Date	Microfiled
0 Original Issue			

Associated Job Nos
Auxiliary Drg Nos
Survey Datc
Datum
Horiz. Grid
Height Origin
Survey Books

Scales
0 1 2 3 4m
Dimensions shown in metres except where shown otherwise

LOGAN CITY COUNCIL
MOUNT LINDESAY HIGHWAY
CTL CHGE 13.24km – 15.26km
Reference Points
Preceding RP | Dist. to start of job (km) | From start to end of job | From end to Following RP | Following RP
Through Chainage from

NORTH MACLEAN SAFETY IMPROVEMENTS
BUSINESS CASE DRAWINGS
TYPICAL CROSS SECTION – SHEET 1 OF 2

Drawn PI
Designed PI

ENGINEERING CERTIFICATION (RPEQ)
ENG. AREA | NAME | SIGNATURE | NO. | DATE

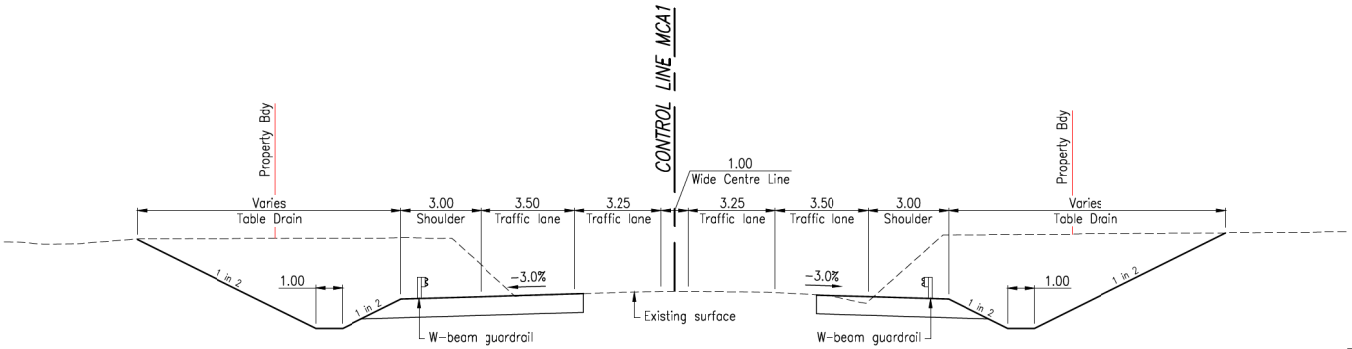
Queensland Government

Job No.	240/25A/900
Contract. No.	SCHD-3531
Drawing No.	NMBC_TC_010
Series Number	2 of 25
	MRR_Detail (02/14)

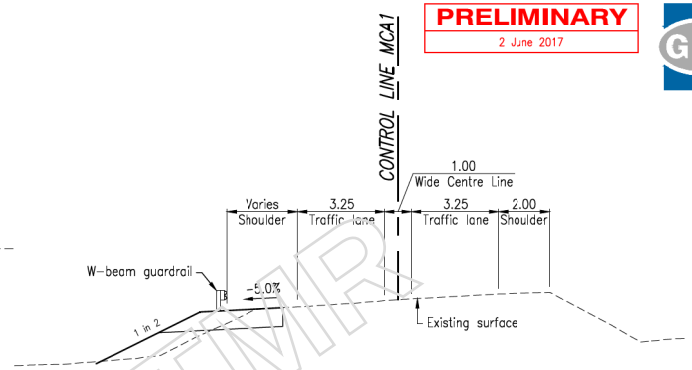
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Last Modified :- Jun 02, 2017 - 4:39pm

PRELIMINARY
2 June 2017

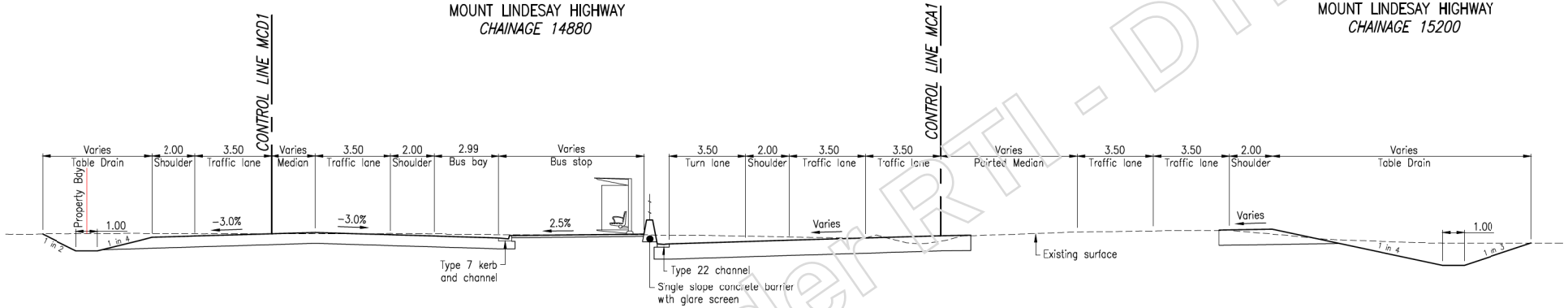
GHD



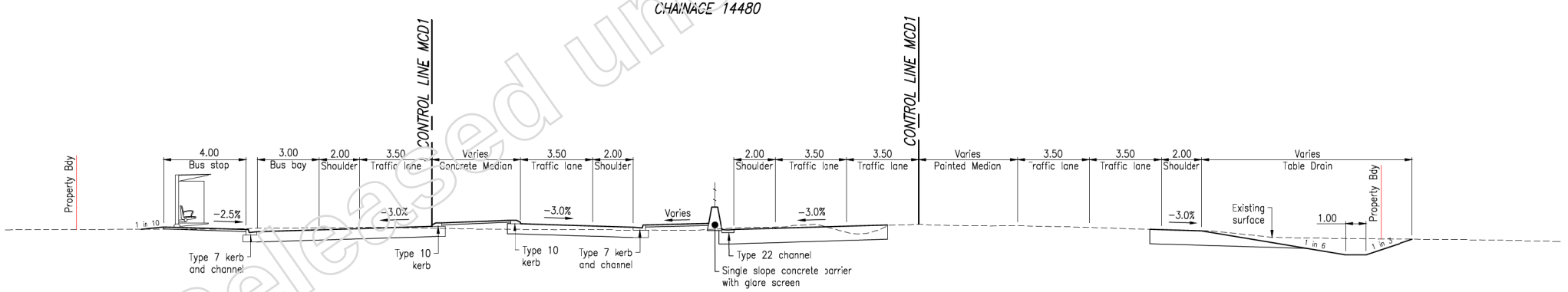
SECTION F – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 14880



SECTION G – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 15200



SECTION E – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 14480



SECTION D – CONTROL LINE MCA1
MOUNT LINDESAY HIGHWAY
CHAINAGE 14420

Released under RTI - DTMR

0	Original Issue			
	Revisions/Descriptions	Certification	Date	Microfiled

CAD FILES | G:\41\30498\CADD\Drawings\41-30498_NMBC_TC_02.dwg

Last Modified :- Jun 02, 2017 - 4:39pm

Associated Job Nos
Auxiliary Drg Nos

Survey Datc
Datum
Horiz. Grid
Height Origin
Survey Books

Scales
0 1 2 3 4m
Dimensions shown in metres except where shown otherwise

LOGAN CITY COUNCIL
MOUNT LINDESAY HIGHWAY
CTL CHGE 13.24km – 15.26km
Reference Points

Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP

Through Chainage from

NORTH MACLEAN SAFETY IMPROVEMENTS
BUSINESS CASE DRAWINGS
TYPICAL CROSS SECTION – SHEET 2 OF 2

Drawn M. Mason
Designed M. Jedra

ENGINEERING CERTIFICATION (RPEQ)				
ENG. AREA	NAME	SIGNATURE	NO.	DATE

Queensland Government

Job No.	240/25A/900
Contract. No.	SCHD-3531
Drawing No.	NMBC_TC_02 0
Series Number	3 of 25

MRR_Detail (02/14)