Proposed Rock Riverbank Stabilisation.

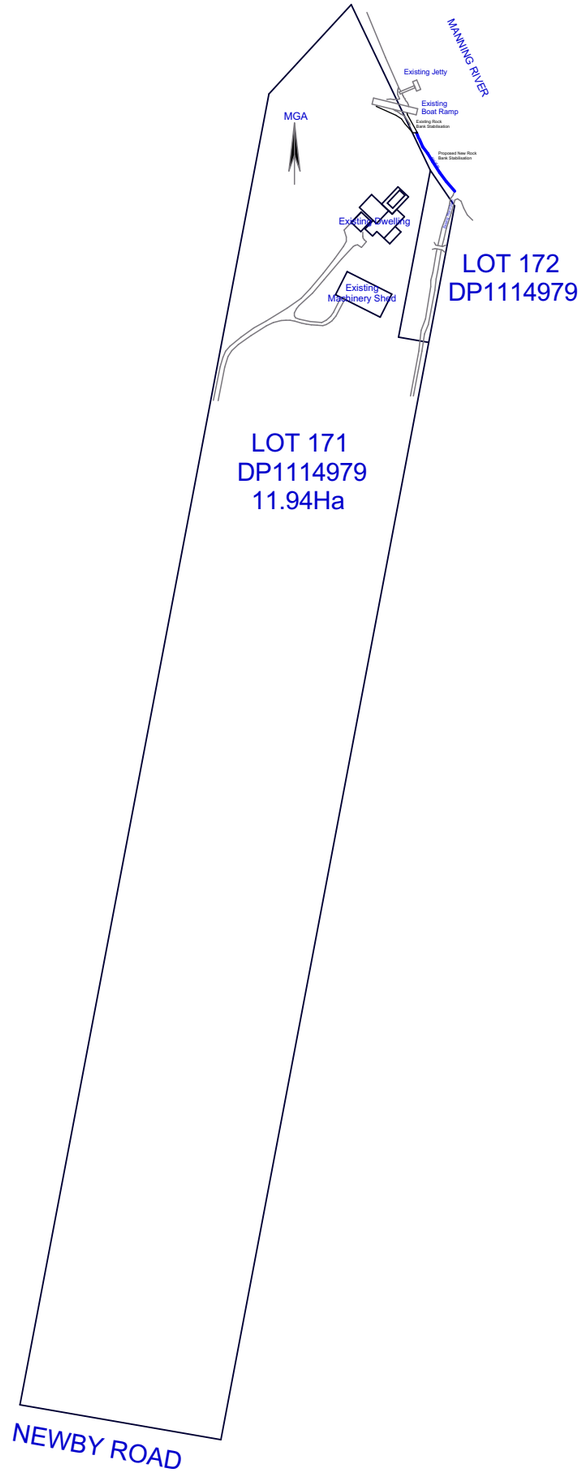
Lot 171 & 172 DP1114979

121 Newby Road

Pampoolah NSW 2430

For Nigel & Neesha Young

Layout Index



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Revisions

6th Plan Draft 01/09/2025

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Cover Sheet

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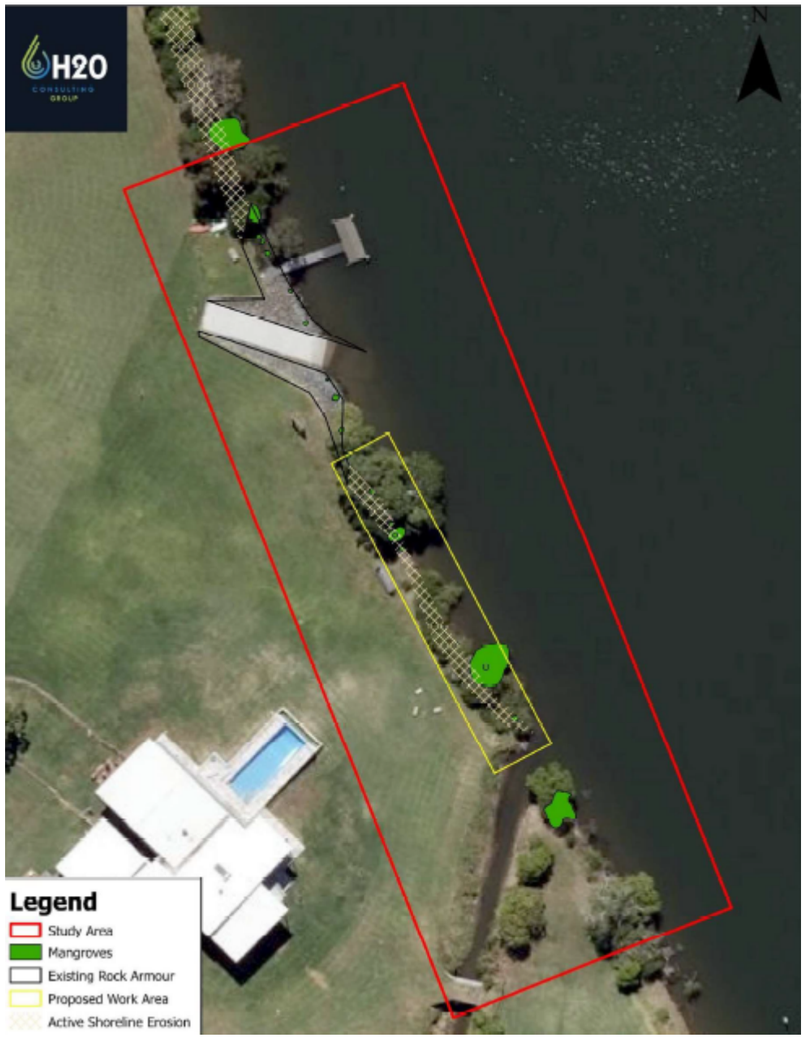
Description of the Proposed Works

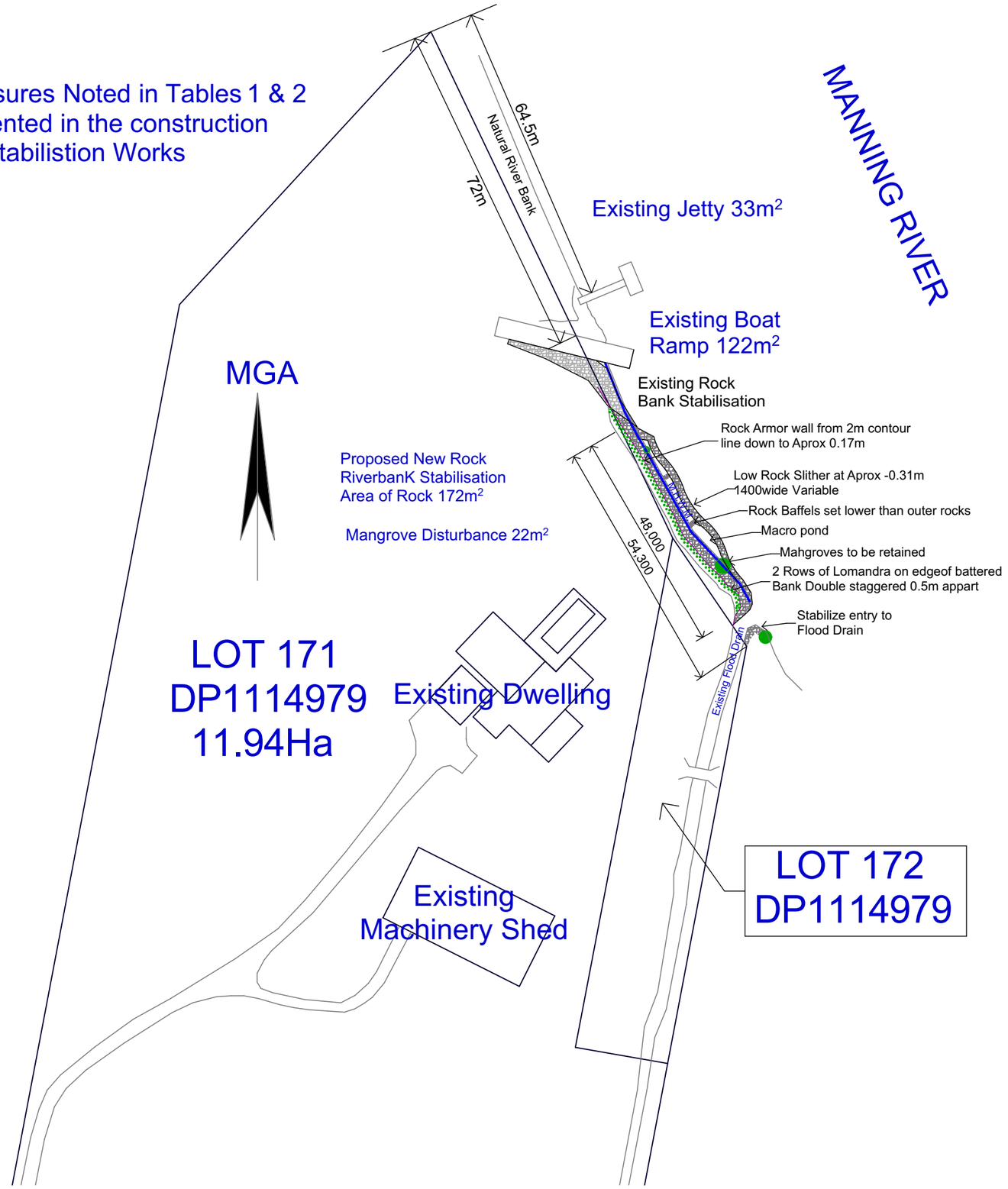
The proposed works include the following:

- Construction of new rock bank stabilisation extending 48 m along the MHWM of the property

This structure will be comprised of A44 bidim geotextile (to prevent scouring of natural soils) behind the rock armour, with a median grain size of 50-500 mm at the toe and 300-350 mm at and above the MHWM. The proposed works aim to provide bank stabilisation for the shoreline on the property. The structure will serve to expand the existing rock bank stabilisation to provide continuous reinforcement across the length of the property's shoreline. Works will be conducted from the shore with a long reach excavator.



All Mitigation Measures Noted in Tables 1 & 2 are to be implemented in the construction of the new Rock Stabilistion Works



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Drawing Title:

Site & Roof Plan

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Table 1: Construction Impacts

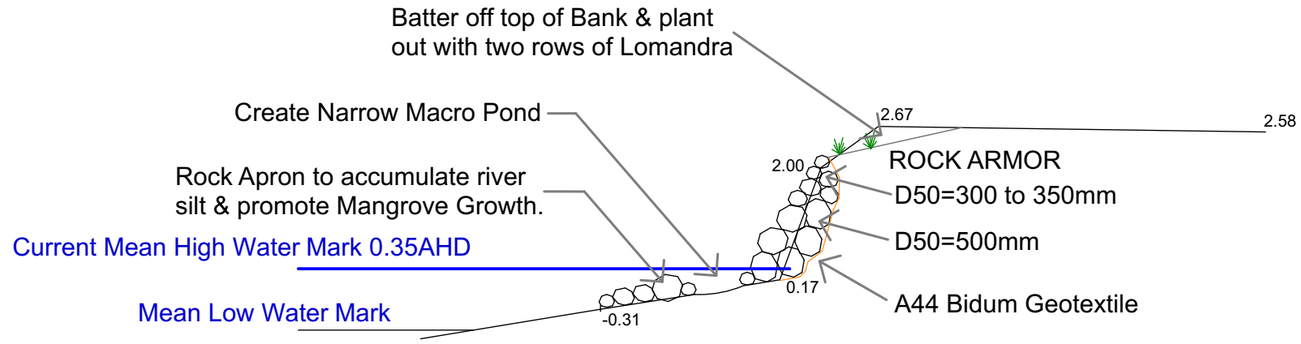
Action	Potential Impact	Mitigation Measure
Storage and stockpiling material onshore	Disturbance to shoreline mangrove trees and/or saplings	No materials to be stored within 2 m of mangroves.
Construction with shore-based machinery	Disturbance of riparian vegetation during accessing the shoreline and placement of materials	Removal of riparian vegetation should be avoided and minimised where possible. A spotter should be used when working in close proximity (5 m) of riparian vegetation to be retained.
Construction of rock bank stabilisation	Removal and or trimming of mangroves within proposed footprint	A permit to harm marine vegetation will be required before any mangrove can be trimmed or removed. Removal of mangroves should be avoided, with placement of rock stabilisation material to occur around existing mangroves and saplings where possible. Where saplings cannot be avoided, they should be replanted at the toe of the seawall.
	Disturbance, smothering, and physical damage to small saplings and mangrove pneumatophores by placing rock material during construction	Mangroves to be avoided when transporting rock material to the placement area. Placement of material should occur around existing saplings where possible. While disturbance to pneumatophores is unavoidable, the bank stabilisation works are critical to preventing future loss of mangroves along this shoreline. Therefore, the ecological significance of short-term damage to pneumatophores is relatively minimal.
	Increase erosion and sediment mobilisation during construction works	Adequate erosion and sediment control measures should be implemented to minimise mobilisation of any shoreline sediments directly from the source into the water or into adjacent stormwater drains, in accordance with the 'Blue Book' (Landcom, 2004) for any shoreline works above the MHWM.
	Disposing of materials in the water	All materials, debris and rubbish should be removed from the site at the end of construction works.

Table 2: Operational Impacts

Action	Potential Impact	Mitigation Measure
Stabilisation of shoreline	Prevention and mitigation of future erosion and associated habitat loss on the property's shoreline	Mangroves that occur on the shoreline will be able to persist given stabilised bank sediments. These works are likely to positively impact the habitat availability and persistence of mangroves in the Subject Site. To provide additional natural protection of the shoreline mangrove saplings should be planted along the toe of the constructed seawall.
Altered hydrodynamic regimes	Induced erosion of surrounding shorelines due to changes to the natural flow of water associated with the new rock bank stabilisation structure	Ensure permeability of rock bank stabilisation structure by using large rocks with gaps between them, as specified in the proposed design, to prevent significant flow redirection.

Offsetting Mangrove Distrubence

The disturbance of Type 2 KFH (Mangroves) will require a 2:1 offset. Given mangrove canopy coverage can vary we recommend transplanting of mangrove saplings and replacement of each mangrove tree with two saplings for each tree removed and one sapling for each tree trimmed/disturbed. Mangrove transplanting and planting should occur in areas immediately below the toe of the rock stabilisation



PROPOSED BANK TOE STABILISATION

DO NOT SCALE

SECTION A

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Sections A

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