

Lot 152 /-/ DP659519 (2.085 ha; Land zoning: C3 - Environmental Management)

Lot

Road

Railway tracks

Watercourse

for construction purposes.

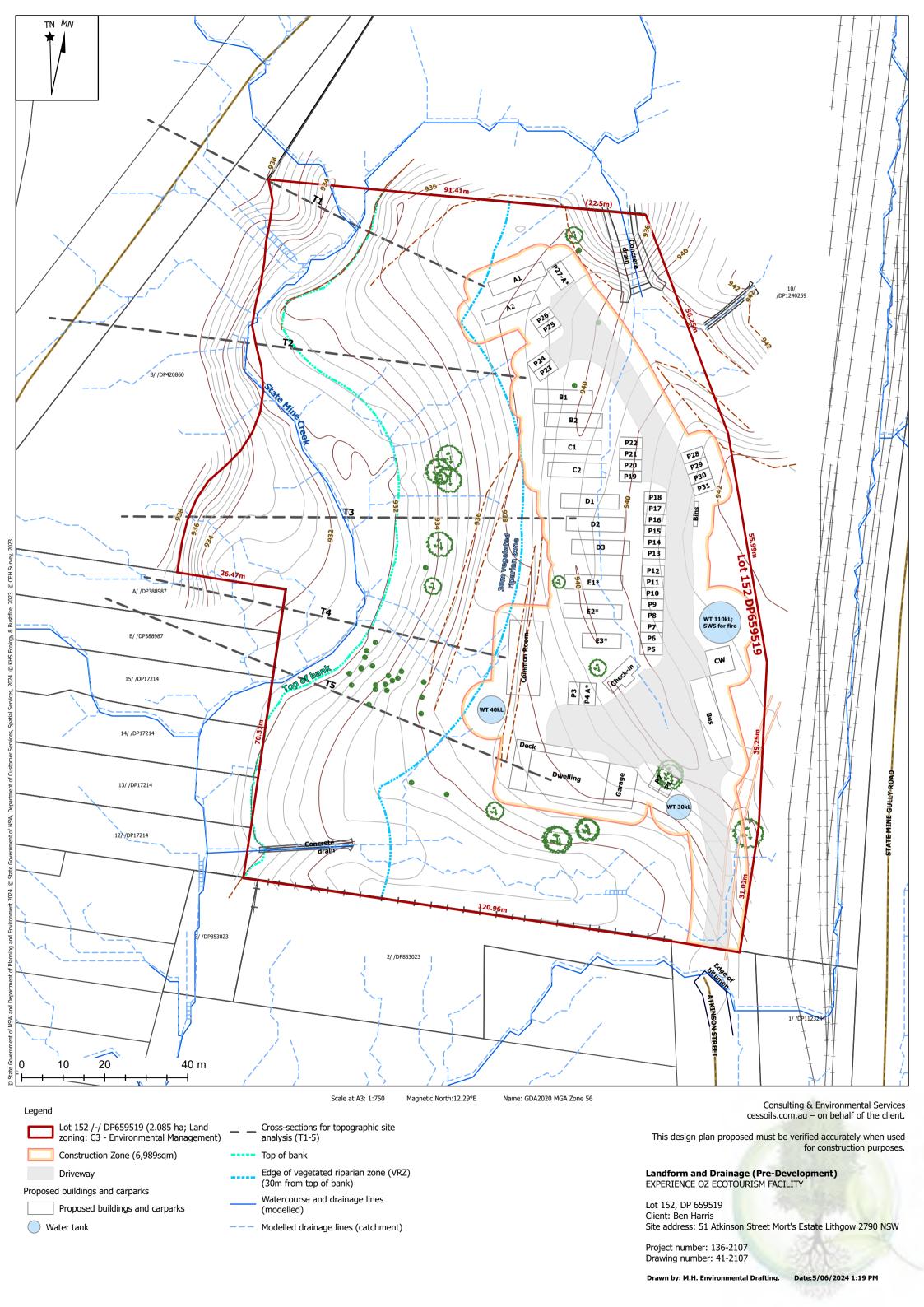
## **Drawing title: Location Plan for Flood Impact Assessment** EXPERIENCE OZ ECOTOURISM FACILITY

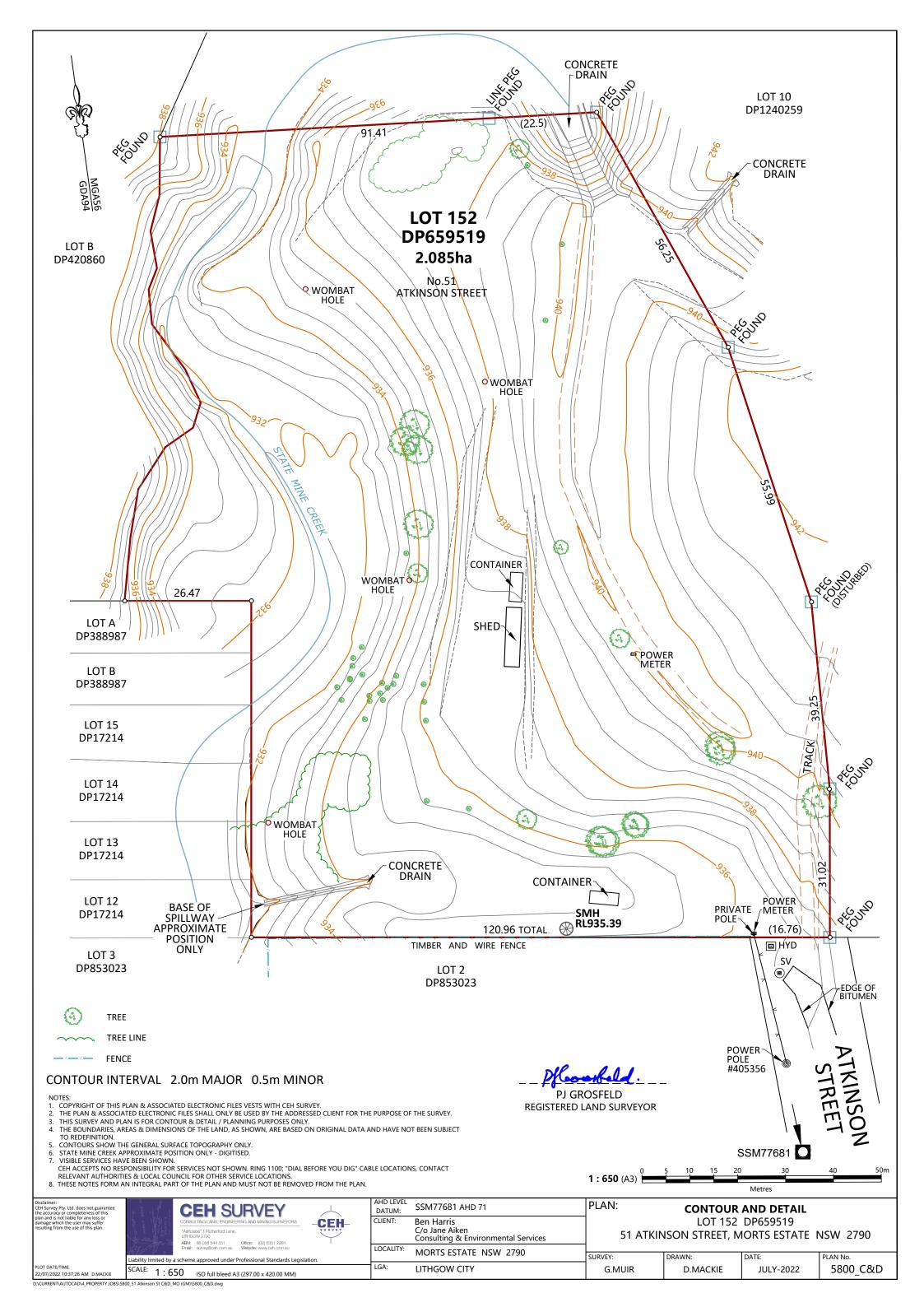
Lot 152, DP 659519 Client: Ben Harris

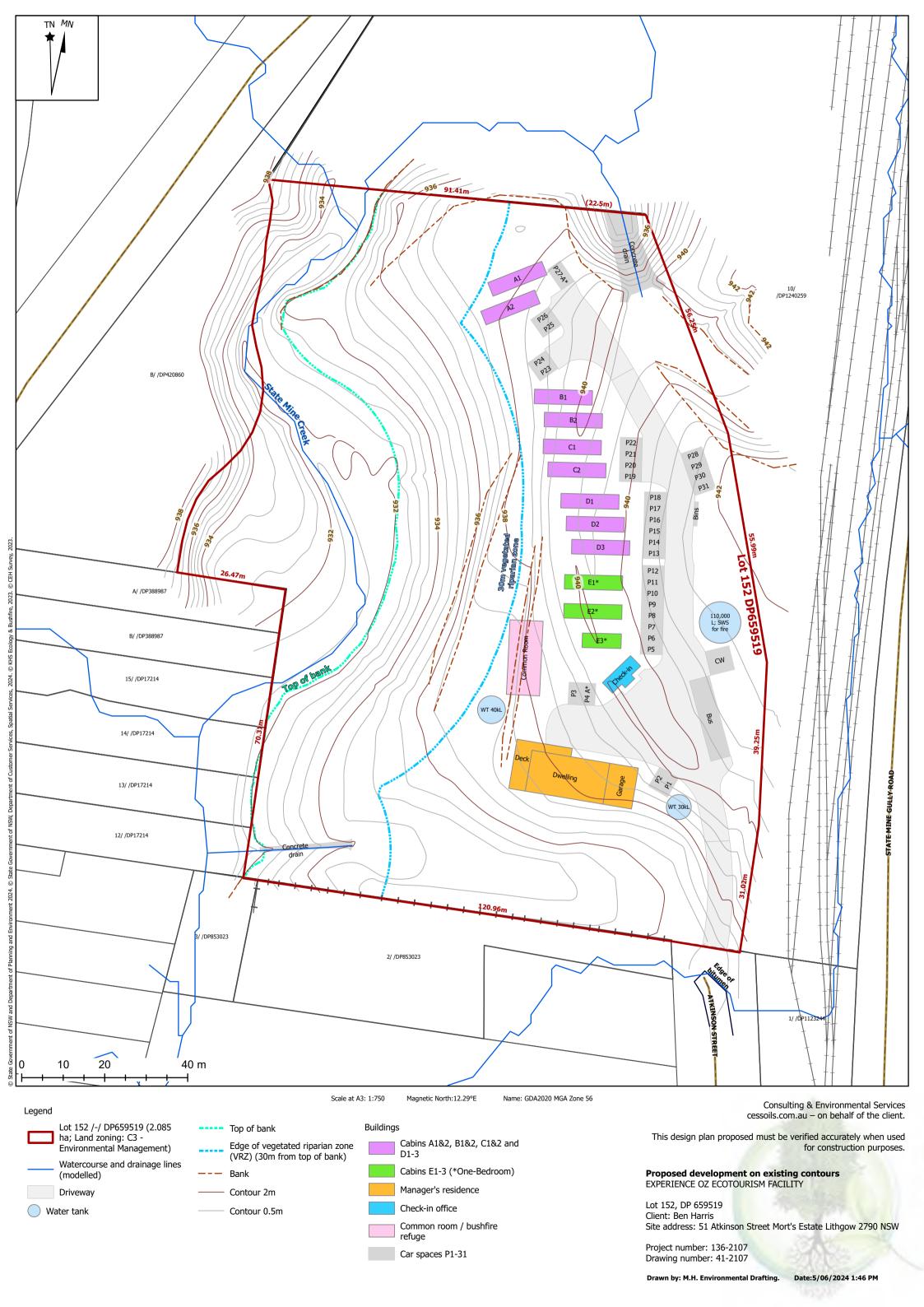
Site address: 51 Atkinson Street Mort's Estate Lithgow 2790 NSW

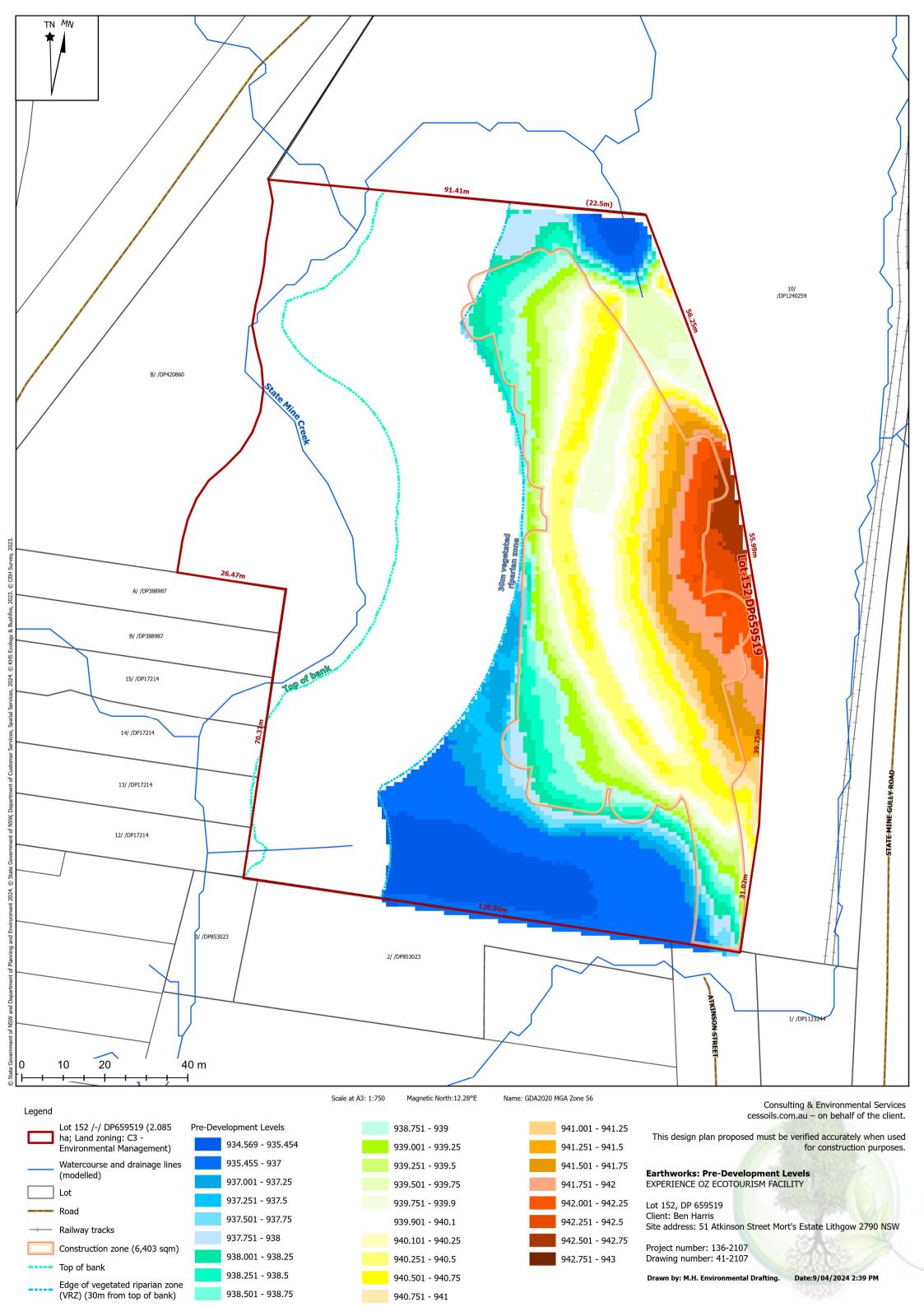
Project number: 136-2107 Drawing number: 41-2107

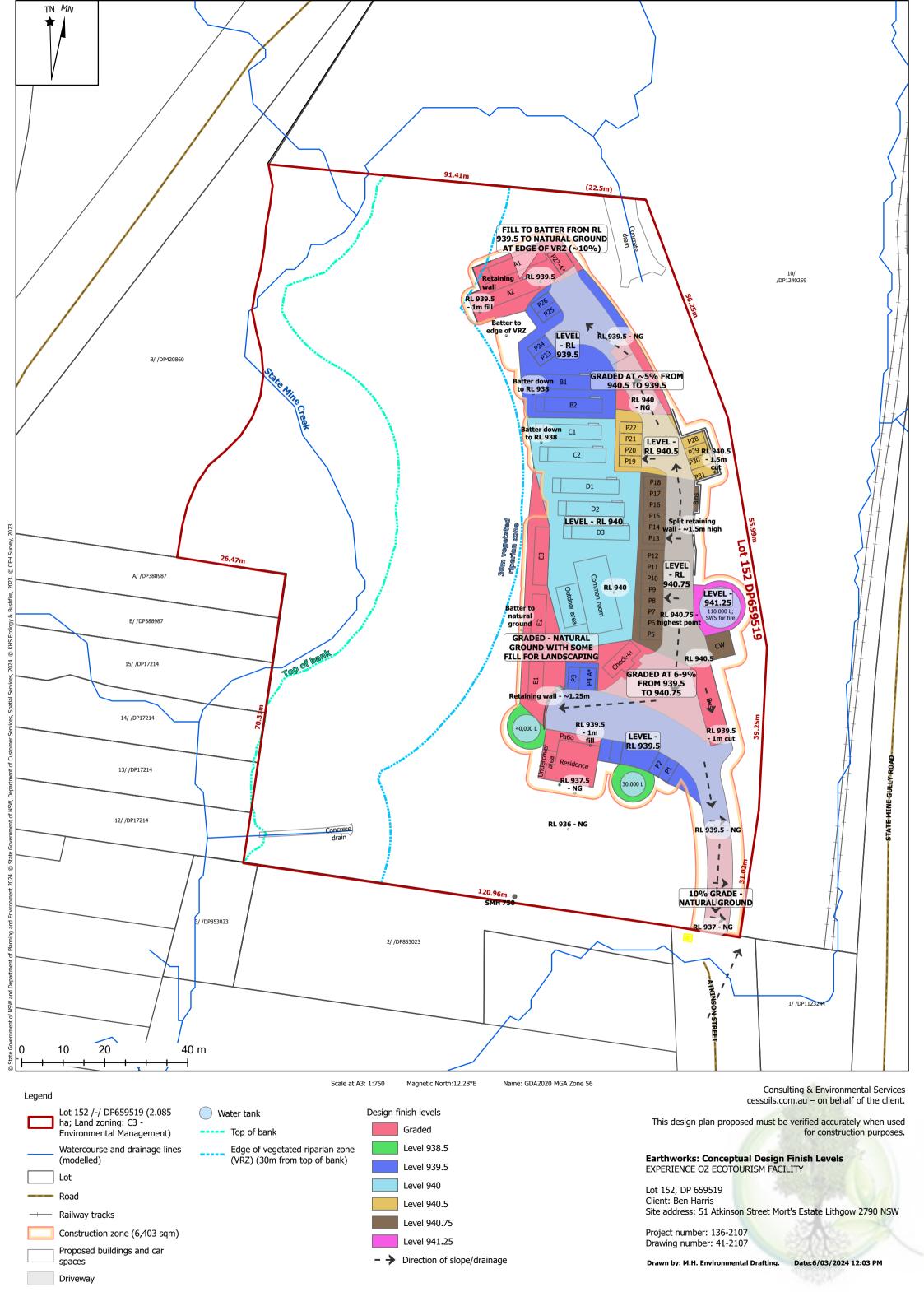


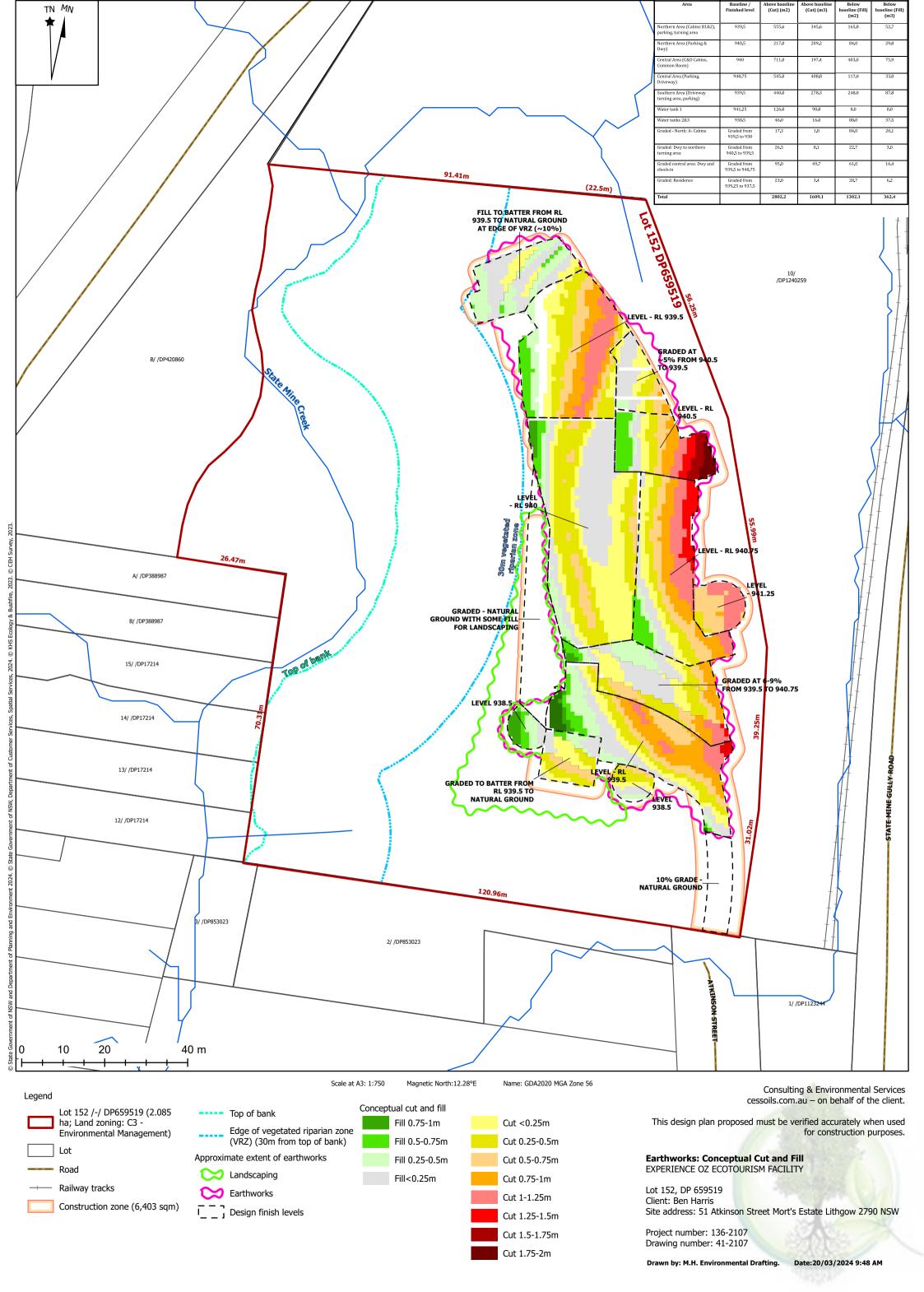


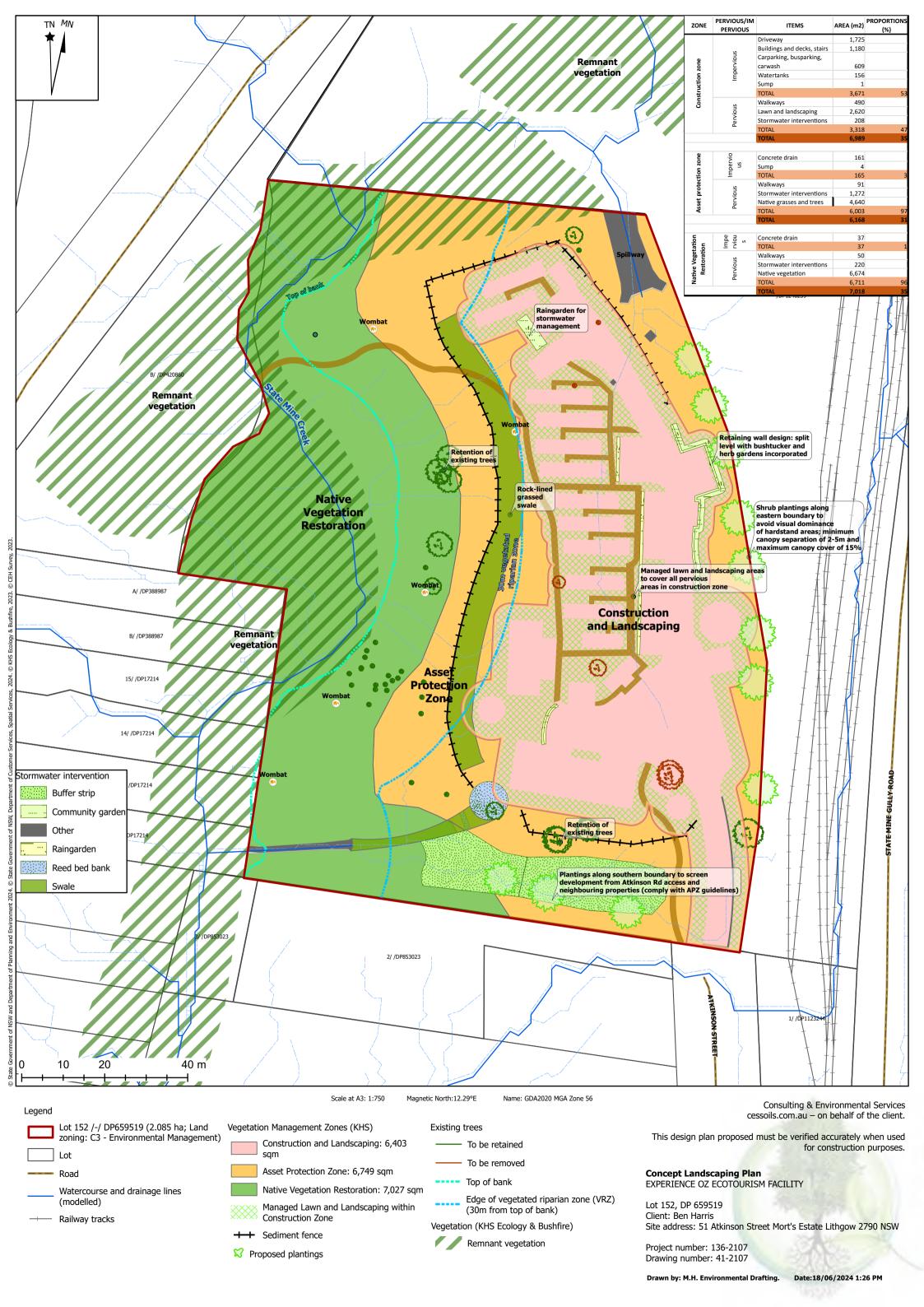


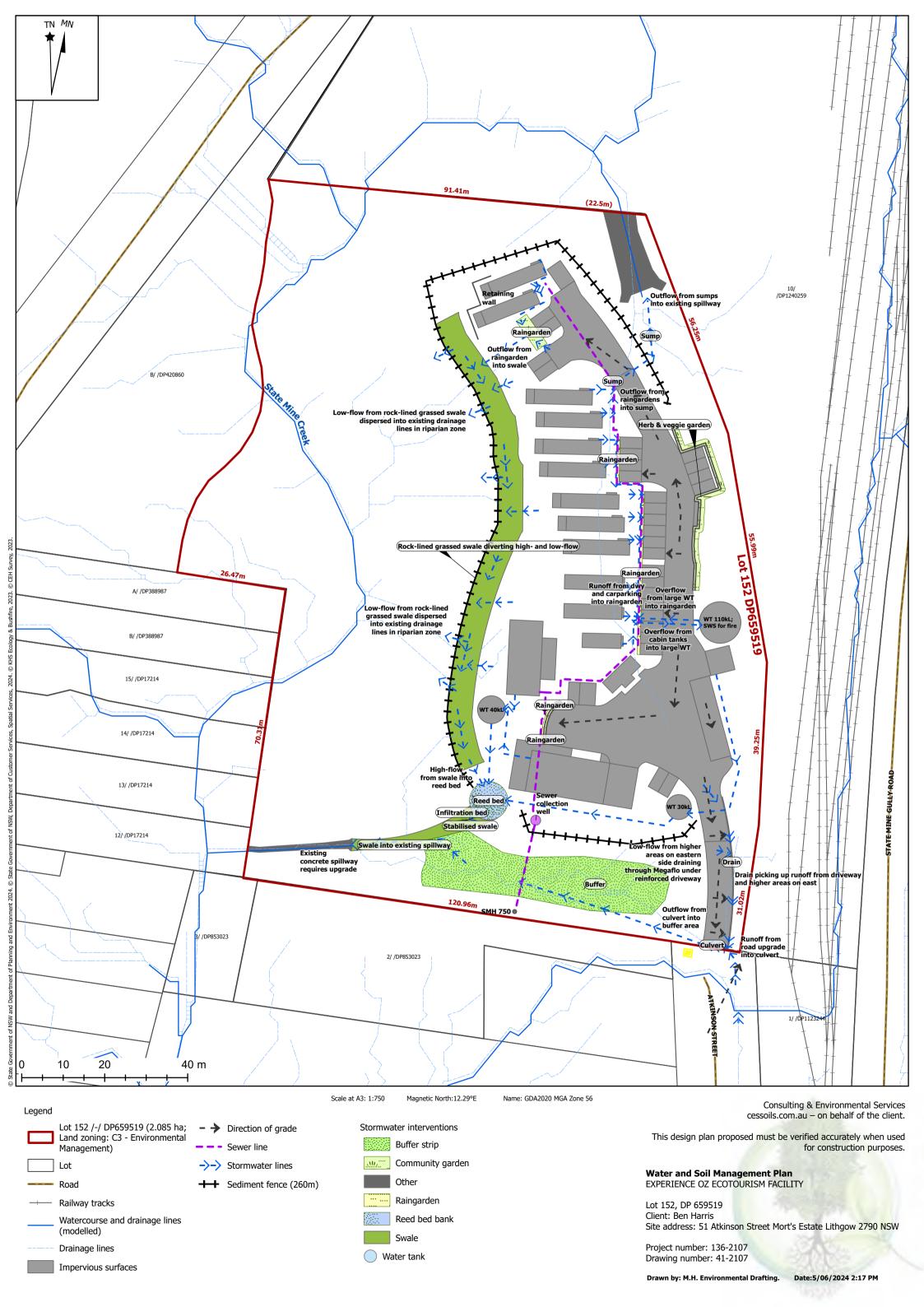














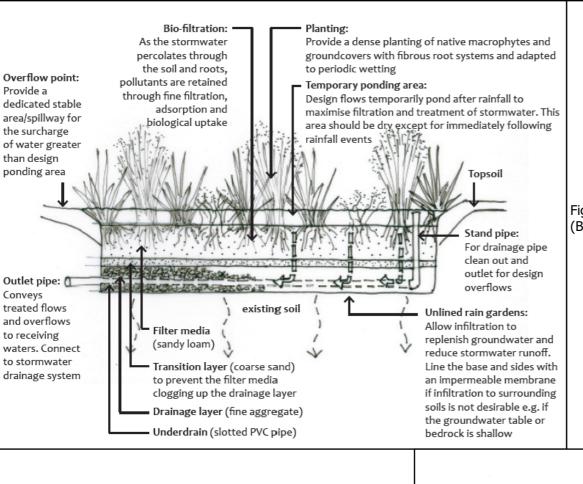
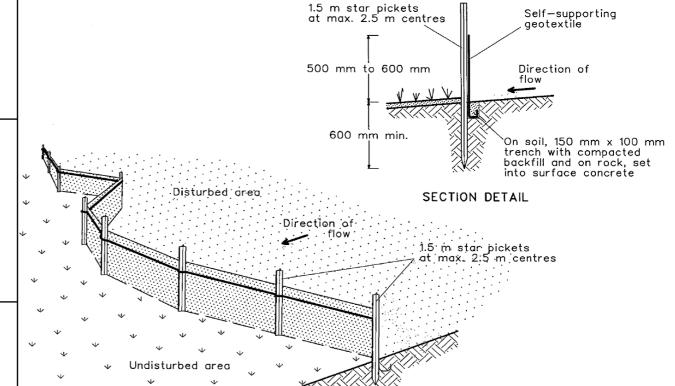


Figure 1 - Typical raingarden cross-section (BMCC DCP 2015 - Part C6 - Figure 3)

Figure 2 - Typical sediment fence (Managing Urban Stormwater: Soils for Construction, 2004).



Phragmites australis ventiliation inflow ~10 cm ~20 cm ~15 cm / drainage pipe geotextile

Figure 3: Kowalik, Piotr & Mierzejewski, Michał & Randerson, Peter & Williams, Haydn. (2004). Performance of Subsurface Vertical Flow Constructed Wetlands Receiving Municipal Wastewater. Archives of Hydroengineering and Environmental Mechanics. 51.



**Construction Notes** 

Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.

Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.

Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.

Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.

6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile

5. Join sections of fabric at a support post with a 150-mm overlap

cessoils.com.au - on behalf of the client.

Drawing title: SOIL AND WATER MANAGEMENT PLAN - PAGE 2 - DETAILS

EXPERIENCE OZ ECOTOURISM FACILITY

Client: Ben Harris Lot/DP: Lot 152 DP659519 Site address: 51 Atkinson St Mort's Estate Lithgow 2790 NSW

Project number: 136-2107 Drawing number: 41-2107 Date: 10/11/2023, Version: 2

Drawn by: M.H. Environmental Drafting.

Figure 4 - Perspective view of swale (Using MUSCI in Sydney Drinking Water Catchment, A Water NSW Standard, 2019 - second edition)

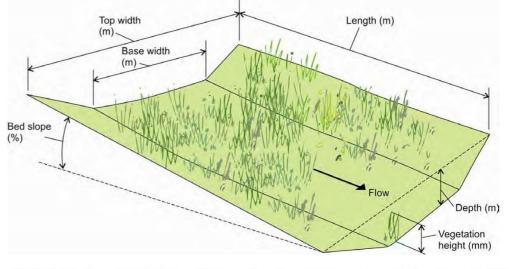


Figure 5.11: A perspective MUSIC view of a swale as used in

(https://wiki.ewater.org.au/display/MD6/Vegetated+Swales)