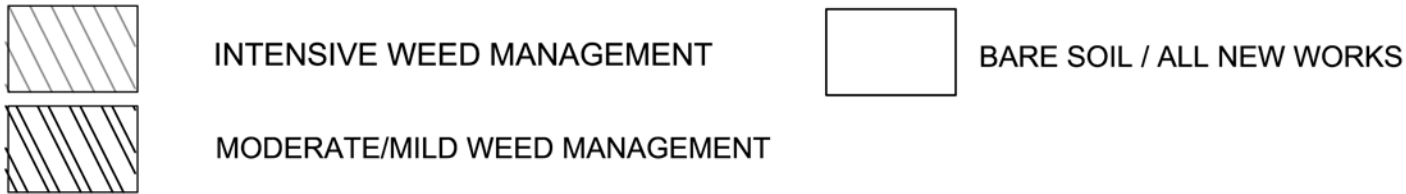
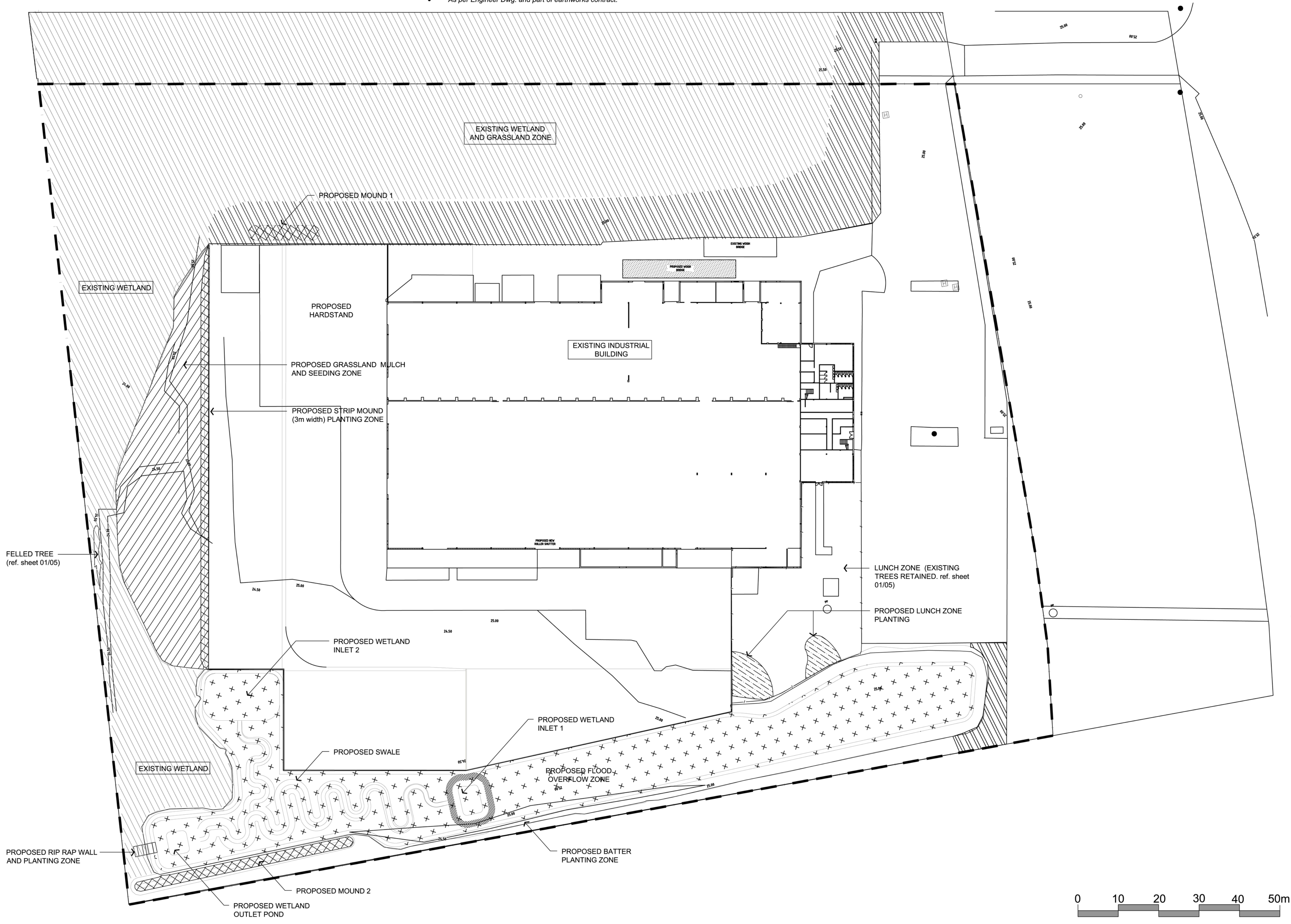


LEGEND



NOTES: Soil Management-Construction of Hardstand and Earthworks

- All soil works shall be part of the earthworks contract.
 - Site topsoil free of any rubbish and weeds shall be used in all plantings unless volumes are insufficient &/or soil quality doesn't meet standards for the wetland planting. Soil amelioration shall be determined after soil analysis.
 - All topsoil removed for construction works and earthworks shall be stockpiled and relocated onsite as per Engineers' earthworks specifications.
 - Topsoil and subgrades shall be stocked piled separately. No mixing of horizons.
 - Stockpiles of topsoil are to be a minimum distance of 5m away from any existing trees, as part of the tree protection plan. The location of stockpiles as per Engineers' drawings.
 - Topsoil shall be spread at a minimum of 150mm depth over a prepared subgrade (substrate) and 200mm over the wetland constructed liner as per Engineers' drawings. The topsoil will be placed and lightly rolled so as not to compact the soil as per Engineers' drawings.
 - The substrate will be prepared for planting to a minimum depth of 250mm prior to topsoil placement.
 - In areas of proposed tree planting the subgrade will be ripped to 500mm depth and then the topsoil is to be placed on top and treated as above.
- Erosion and sediment control
- As per Engineer Dwg. and part of earthworks contract.



LANDSCAPE CONSTRUCTION PLAN -VEGETATION MANAGEMENT PLAN

- Tree and landscape protection measures installed by others (Tree and Landscape Protection and Management plans, Sheets 01/05 & 02/05)
- The scope of works
- A 24 month weed control program shall be developed over the entire site and shall be implemented 6 months prior to construction works.
 - Installation of weed/erosion matting and mulch to exposed soil areas prior to planting as per plan.
 - Seeding of the mulched soil to be proposed grassland and planting of screening trees as per plan.
 - Prepare planting areas around the lunch zone by removing all kikuyu and weeds from the planting area. Cultivate the soil to 250mm, plant and mulch.
 - Planting and maintenance of newly planted areas for 24 months post planting and weed management of all areas as above. Plants that die or are unsuccessful shall be replaced.
 - Fertilizer shall be applied to select plantings. The type will be specified after the soil analysis.
 - The plantings are to be watered on an "as needed" basis so as to ensure that they do not suffer water stress.

Weed Management

- Weed mapping identifies three areas of control.
- A) Intensive management zone** (Monthly control initially, cut back in winter and heavy control during flowering period. The proposed management schedule and approach to be submitted by the contractor)
- B) Maintenance management zone** (monitor and control flowering of weeds at all times; control weeds at minimum 6 monthly intervals or more frequently as necessary)
- C) Bare soil management zone** (prevent weed establishment on bare soil, soil covered by erosion/weed matting prior and post planting.) Refer to Sheet 04/05 Landscape Construction - Planting Zones.
- A 24 month weed control program over the entire site shall be implemented commencing up to 6 months prior to construction works. All of the management areas are to be kept free of litter during the period of the contract.
- Due to the presence of a wetland on part of the site, only herbicides that can safely be used in frog habitat are to be used. The Bush Regenerator contractor shall provide evidence of the safety of the chemicals proposed for use on the site.
- Green waste may be composted on-site but all weed material with the potential to germinate/generate must be disposed of off-site in a suitable green-waste facility.
- Weed control shall be inspected by a qualified Ecologist or Landscape Architect on a 3-monthly basis for the first 6 months and then on a 6-monthly basis until the conclusion of the 24 month maintenance period. These inspections shall coincide with the monitoring of the planted vegetation.

- A) Intensive management zone** (Monthly control initially, cut back in winter and heavy control following flowering period. The proposed management schedule and approach to be submitted by the contractor)

A) Intensive Management –Approach and schedule to be submitted by the contractor

Botanical Name	Common Name	Proposed Management-to be completed by the contractor	
Trees		Intensive maintenance	
Salix sp	Willow	Eg Saplings: Cut, scrape G1.5: seedlings spray G200: Trees Cut & Paint G1.5 or Fill or inject stem (G1.5) - stack branches above ground to dry.	Eg. follow up in 6 months
Acer negundo	Box Elder		
Shrubs		Eg Seedlings: hand pull: stems cut, scrap, paint G1.5.	Eg. Follow up every month until controlled
Cestrum parqui	Green Cestrum		
Rubus fruticosus	Blackberry		
Solanum marginatum	Night Shade		
SWP & Vines			
Cardiospermum grandiflorum	Ballon Vine		
Rumex sp	Dock		
Onopordum acanthium	Scotch Thistle		
Tetragonia sp			
Senecio plerophorus	African Daisy		
Taraxacum officinale	Dandelion		
Bidens pilosa	Cobblers pegs		
Canna x generalis	Canna		
Atrypa sanctifera	Moth Vine		
Ageratina riparia	Creeeping Crofton		
Sonchus sp	Sow thistles		
Chenopodium sp	Goose foot		
senecio sp.	Fireweed		
Grasses & Sedges			
Pennisetum clandestinum	Kikuyu grass		
List other weeds not identified above and found onsite			

- B) Maintenance management zone** (monitor for flowers and control 6 monthly)
- The Bushland Contractor is to provide a proposed methods statement prior to being commissioned.
 - The wetland area within the existing flood zone is to be managed to allow the natural regeneration of existing indigenous species in the wetland.

- C) Bare soil management zone** (prevent weed establishment on bare soil, soil covered by erosion/weed matting prior and post planting. Mulch and direct seeding of grassland zone) refer to LANDSCAPE CONSTRUCTION PLAN-PLANTING PLAN and DETAILS.

- Jute Mat** (750g/m3) secured with 200 & 300mm pins
- Fibre Mulch (Jute) is to be installed on mound, batter, flood overflow and wetland areas as shown on plan.
 - Jute shall be secured in a trench along the top of the drainage swale, constructed wetlands, batters and mounds and along its length with U shaped pins at 2-3 pins per m2. At the ends and overlapping joints, space pins no more than 450mm apart. Overlap of mesh is to be against the direction of water flow.
 - 300mm pins shall be used in securing trenches and slopes >1:3.
 - See details of installation in LANDSCAPE CONSTRUCTION PLAN-PLANTING PLAN (sheet 04/05 & 05/05)

- Mulch and Direct Seeding**
- Mulch and seed shall be applied to the proposed grassland and screen zone. Refer to details in LANDSCAPE CONSTRUCTION PLAN-PLANTING PLAN (sheet 04/05 & 05/05)