

GENERAL ARRANGEMENTS PLANS 301-304

PROPOSED



LANDSCAPE PLANTING PLANS 401-404

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**ENDEMIC PLANTINGS ON THE GOLF COURSE AND ALONG THE PROPOSED ACCESS ROAD:**  
Note: Shrub and groundcover planting numbers noted on plan are indicative only based on an estimated mix of M: Medium shrubs 390 : L: Low shrubs 685 : and / or G: Groundcover 1,130 as applicable to suit each situation and subject to later detailed species selection and endemic plant stock availability.  
Use plant seeds where effective to do so.  
TOTAL AS SHOWN: 2,205 NO. SHRUBS & GROUNDCOVERS, PLUS 42 NO. TREES = 2,247 TUBE STOCK PLUS 2,210 NO. SNOWGRASS CELLS TOTAL 4,457 NO. PLANTINGS.

Botanic Name	Common Name	Many species adaptable to either site conditions
TREES	Black Salale	▼Prefer moister, swale; heavy shade and/ or wet heath sites
Eucalyptus sieboldiana		▼
Eucalyptus pauciflora ssp. niphophila	Snow Gum	
M: MEDIUM SHRUBS / HEATH: Generally 1 – 1.5m ht. Plant at av.1 per 2m2		
Bostea foliosa	Leafy Bostea	
Callistemon sieberi	River Bottlebrush	▼
Grevillea victoriae	Royal Grevillea	
Hakea macrocarpa	Small fruited Hakea	▼
Leptospermum lanigeraum	Woolly Tea Tree	▼
Oxylobium alpestre	Alpine Oxylobium	▼
Oxylobium ellipticum	Common Shaggy Pea	▼
Prostanthera aureata	Alpine Mint Bush	•
Tasmanita xerophylla	Alpine Pepper	▼shade
L: LOW SHRUBS / HEATH: Generally 0.5 – 1.0m ht.. Plant at av.1 per m2		
Grevillea australis	Alpine Spider Flower	▼shade
Olearia phillyroea	Dusty Daisy Bush	•
Phacelia squamulosum	Forest Phacelia	•
G: GROUNDCOVERS / FORBS : Generally <0.7m ht. Plant at av.3 per m2 (Snow Grass on 12 per M2 ) Most sun and shade adaptable		
Craspedia sp.	Billy Buttons	
Dianella tasmanica	Mauve Flax Lily	▼shade
Empodisma minus	Spreading Rope Rush	▼
Helictysum scorpioides	Button Everlasting	
Hovea montana	Alpine Hovea	
Kunzea muelleri	Yellow Kunzea	
Olearia alpeia	Alpine Daisy Bush	•
Poa sieberiina	Five-leaved Tussock Grass	
Podocarpus lawrencei	Mountain Plum Pine	▼shade
SNOWGRASS : Poa (incl. P. helmsii, P. hienania & P. lawelliae)	Snow Grass	

- PLANTING PROCEDURE:**
- Site and operations management throughout the Works to maximise reuse of project generated natural resources when clearing or excavating eg site topsoil for reuse is critical; timber chips & brush chippings as mulch; site rocks as barriers, batter stabilisation & landscape natural features. Supply from the specific project if possible or Thredbo stockpiles for the balance if available.
  - For planter beds prepare subgrade; ensure 250mm depth Thredbo topsoil from either insttu or project stripped topsoil reused (or combination) as necessary to provide the growing medium; place seeded / mulched as regeneration available; and supply & place tree seedlings down the slope if minimum 300mm wide and 1m high. Seedlings must be installed per to Manufacturer's directions. Jute mesh may be permitted across the slope if more efficient ie along the contour as long as the upper roll is placed over the lower roll (minimum 300mm overlap) so that any runoff or material wash does not undermine the jute and aid wash outs. *[Polythetics Technit Coat-9 is a quality biodegradable 100% coconut fibre jute matting with a near 3 - 5 year before degradation timeline that has an open weave allowing water penetration].* No imported topsoil into Thredbo permitted.
  - Plant trees, shrubs and groundcovers tubestock via an opening cut in the jute at nominated density with a rigid black plastic Tree guard for vermin protection to be provided for each tree, shrub and groundcover. Note two posts per guard to form the frame and the cable tie top closure to aid a few years rabbit and deer protection in the specific detail 1 and 2 on Plan 501.
  - Shrubs and groundcovers to endemic / site specific species as nominated in a random natural layout in mixed groups of 3-9 of shrubs or 7-15 of groundcovers of each species or as nominated on plan.
  - Grow grass cells to be planted via snail openings cut into the jute at approx. 320mm centres (or 300mm centres if a single grid so a staggered 'herringbone' diamond pattern) onto a sunny grid so a staggered 'herringbone' pattern that equates to average 12 per m2. Snow Grass due to close density does not require a Tree guard to be provided.
- GRASSING PROCEDURE:**
- For grassing areas prepare subgrade to 200mm depth; ensure minimum 100mm depth Thredbo topsoil from institu or project stripped topsoil reused as necessary to provide the growing medium
  - Grassing areas rehabilitation or new grassing to be 100% Fescue seed mix (or turfing in select key areas if available and warranted). Protect and aid grass growth by weed free bitumen straw mulching as per Specification. Ensure Grassing achieves a dense even sward to approval.

SITE MANAGEMENT & ENVIRONMENTAL PROTECTION: as applicable plans 301 to 304 and 401 to 404

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**EXISTING TREES TO BE REMOVED:**  
Refer Plans 301 to 304

**UNDERSTOREY LOWER VERSUS HIGHER MANAGEMENT REGIME DELINEATION:**  
Refer Plans 301 to 304 and 401 to 404  
DELINATION OF THE ACTIVE GOLF COURSE PLAY ZONE WITH REMOVAL OF NOMINATED TREES, ONGOING VEGETATION MAINTENANCE AND SLASHING OF GROUND LAYER (PAST CUT) ROUGH AND MOVING MAINTENANCE ATTERING/STAKING OF PARKS, FIELDS AND BOUNDARIES TO BE REMOVED TO BE REINSTATED TO THE BUSINESS ASSASSMENT REPORT (GND) TO BE MANAGED IN ACCORDANCE WITH APPENDIX 1: VEGETATION MANAGEMENT PLAN OF THAT PLAN.

**LOW HEATH & GRASSES RETENTION IN TREE REMOVAL ZONES:**  
Proposed tree removals adjoining golf play zones often proposed to open up fair shot lines that have been impeded by encroaching tree crowns as trees mature. The understorey though can

- often be retained especially <1m mature height low shrub species and ground layer plants that retain a natural setting but are generally intended to be not in active play (even if a dashed shot line is over the top of the heath). If a ball goes in it could be lost or it found a possible challenging recovery shot may be required.

- Alternatively in some instances it is recommended that the ground layer for later golf play is focussed on mounding (and transforming if necessary) into a more playable playable grasses cover that offers some stimulating chances. Some lully grasses can be retained and select alpine dryland grass mix sowing for cover in fill if needed. This will be golf 'rough' and a fairway quality surface.

**ROCK BARRIERS** to contain vehicles to defined roads: refer Detail Plan 501  
Placement of bush rock from on-site works areas or Thredbo tp stockpiles ensuring minimal exposed fresh or quarried faces to Superintendent approval. Natural character is an important criteria in placement which shall be to the satisfaction of the Superintendent. All rocks to be firmly bedded and stable.  
A range of rock sizes to be used in each area, except where a specific function such as retaining a pathway or batter necessitates certain dimensions as the most practicable. Rocks generally are not to be motivated in except where a vertical (or near vertical) wall is necessary. In this instance the mortar is to be narrow with deep rakes to minimise its impact

**TREE OR HEATH ZONES PROTECTION:**  
To be defined in post DA detailed plans for approval  
Broad areas of lower risk; less significant regrowth areas or low heath on slopes zones with minimal access potential; Staircickel and multi - wire fencing with or without parawebbing subject to approval. Place Nightline reflectors to aid any dark period ID of the fence/line. Remove on completion of project.

**Key mature tree trunk protection close to construction access or works:** Where significant earthworks near mature trees place reo mesh fencing at minimum 2m outside of the tree crown to minimise any potential root disturbance. If the outer edge of earthworks is closer to the trunk review the earthworks extent with the Superintendent and examine if a localised steeper batter / rock boulder 'wall' or another solution would lessen tree root disturbance in the crown Tree Protection Zone (TPZ). Mesh enclosures are to be constructed from F82 reinforcing mesh, 1800mm high, wired to 2400mm long star pickets driven into the ground 600mm, spaced apart at a minimum distance of 1m from any trunks of trees to be retained. Associated staked, wire and possible paraweb fencing to be at the maximum extent from the trunk that ensures least root or crown zone disturbance permissible by essential ground disturbance. Remove on completion of project.

In select higher risk of damage zones individual tree trunk batter protection secured around the tree trunk shall also be required at Superintendent direction.

EROSION & SEDIMENT CONTROL ADJACENT TO SELECT EARTHWORKS AND WATERCOURSES:

To be defined in post DA detailed plans for approval

- Priority silt fencing:** firmly secure geotextile fabric to low staked and wire structure (posts max. 3 metres) and secured by heavy iron bands and ground stake back to approval. Little s protection will be provided to any earthwork zones wider than 6m width to approval and always where adjacent water courses and/or steep gradient zones.
- Sediment traps:** Construct sediment trap to approval in watercourses or flow lines utilizing certified weed free cereal strawbales wrapped in geotextile fabric or comparable to silt fencing barriers.
- After rain inspect, clean and repair temporary erosion control and sediment devices.
- REVEGETATION AND SITE REHABILITATION:**
- All disturbed areas to be revegetated in similar character as the existing or by enhanced environmental outcome to suit site function to approval.
  - Road edges and banks to be revegetated as nominated with open mixed shrub groups / trees and snow grass as per typical detail.
  - No imported topsoil used/ reuse site soil from proposed works suitable for reuse.
  - Cleared vegetation chipped for reuse.
  - Boulders won during excavation reused to support banks and drains.
  - Grass mix to disturbed areas 100% rescue

THREDBO GOLF COURSE UPGRADE

LEGEND AND NOTES

JOB NO.  
2115  
ISSUE.  
C

NOT FOR CONSTRUCTION



REV	ISSUE	DATE	CHECK	DRAWN
A	D.A.	13.04.23	JRD	LD
B	D.A.	16.06.23	JRD	PCD
C	DA SUBMISSION READINESS	14.10.2022	JRD	PCD

CLIENT



**DAWSON golf DESIGN**  
GOLF COURSE ARCHITECT  
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