





## 8.0 Landscape Design

## 8.7 Weed Management

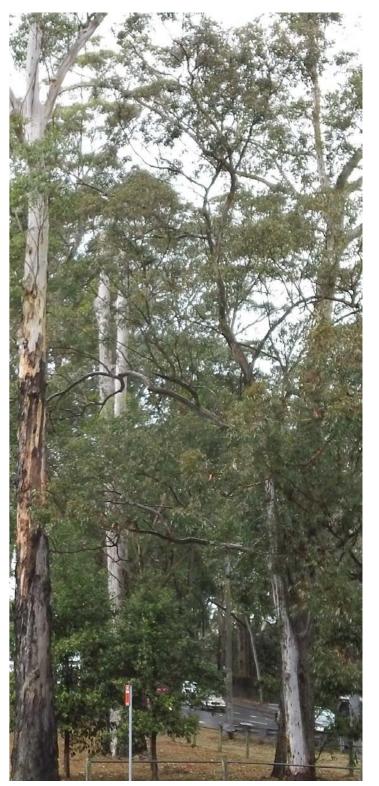
### **Design Philosophy**

To decrease the dissemination and prevalence of weed species within the new and existing flora corridors.

### Principles

- To decrease the existing amount of weed species and potential for further infestation:
- Increase the dissemination of endemic species by decreasing competition from weed species;
- Support and increase biodiversity by providing suitable habitat and fodder for endemic fauna species; and
- Increase the visual quality of the road corridor.

Strategy	Implementation
Weed Management Strategy and Survey.	To be carried out prior to construction commencement
Undertake regular weed control in habitat plantings, bushland	Use approved, environmentally acceptable, weed eradication
rehabilitation works and landscaping activities.	methods and over a sustained period of time, setting realistic
	performance evaluation measures.
Control aquatic weeds at disturbed sites adjacent to watercourses.	Collect and dispose of weed infested topsoil in an environmentally
	sensitive manner. Separate weed infested topsoil from topsoil that
	is to be reused in landscaping.
	Reuse topsoil from cleared vegetation areas in close proximity to
	its original location.
	Cleared material is to be assessed and all weeds and undesirable
	species (ie species with vigorous germination habits) are to
	be separated and removed from the cleared material, prior to
	chipping.
	Use mulch in close proximity to where it was derived.
	Clean earthmoving machinery prior to being used in non-weed
	infested areas.
Ensure a quick, continuous cover to reduce potential weed	Include a cover crop of sterile grass and ground cover species
infestation.	(Rye Grass or Japanese Millet) in all seed mixes.
Prior to revegetation, treat any weed infested areas with an approved	Use approved, environmentally acceptable, weed eradication
herbicide	methods.
Ensure stockpiles etc are not affected or infested by weeds and	Seed exposed earthworks, stockpiles etc with a sterile cover crop
erosion.	(Rye Grass or Japanese Millet) to reduce potential infestation by
	weeds and erosion.
Restrict weed growth, improve plant establishment conditions and	Place mulch around individual tree plantings and on mass planting
minimise maintenance.	in interchange areas.



Observatory Park







# 8.0 Landscape Design

### 8.8 Visual Impact

As part of the urban and landscape design, mitigation measures have been incorporated into the overall scheme, to reduce the potential visual impact of the roadway upon the community and road users.

### Design Philosophy

To reduce the visual impact of the road on the environment and on the local community.

#### Principles

- Integrate road with the surrounding natural and cultural landscapes;
- Provide screening of road from highly viewable locations and individual properties; and
- Retain existing landscape character.

Strategy	Implementation
Use screen planting to reduce the visual impact of structures.	Implement suitable screen shrubs and trees along private property boundaries and against major built structures.
Reduce the visual impact of cut batters.	Vegetate all batters and exposed earthworks with suitable endemic species.
	Rounding of edges of the cutting to sculpt the landform into the natural landscape.
	Laying back cutting batters at upper portions of the cutting to assist with landscape integration.
Provide a unified design along the entire proposed highway route.	Carefully integrate all visible elements such as landscape, tunnel, embankments, abutments, barrier details, retaining walls, fencing, lighting, shared path, stairs, signposting structures and noise walls to form a unified design.
Screen local road users from noise walls.	Install appropriate screen planting/landscaping in front of the noise wall.
Where possible, minimise use of fencing.	Implement soft landscape barriers.



Screen Planting

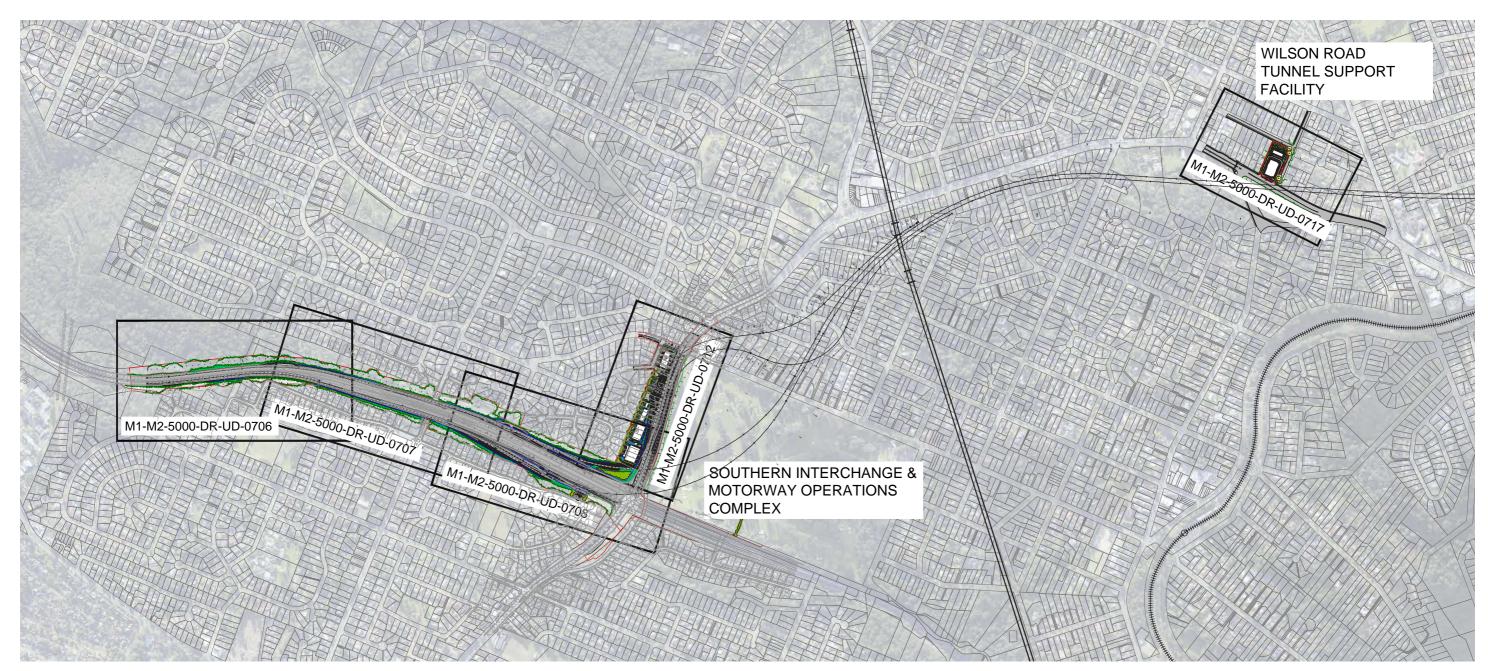






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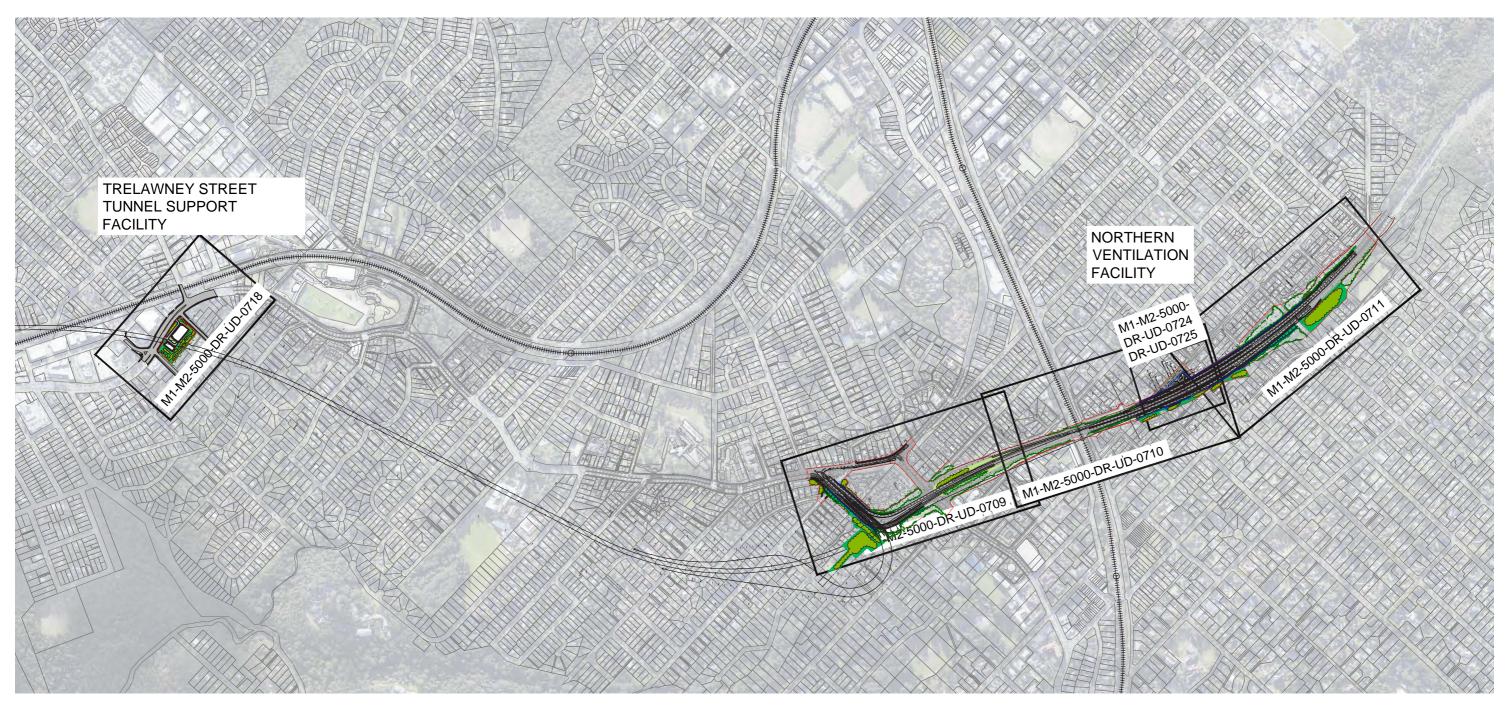
## 8.9 Landscape Concept Plans







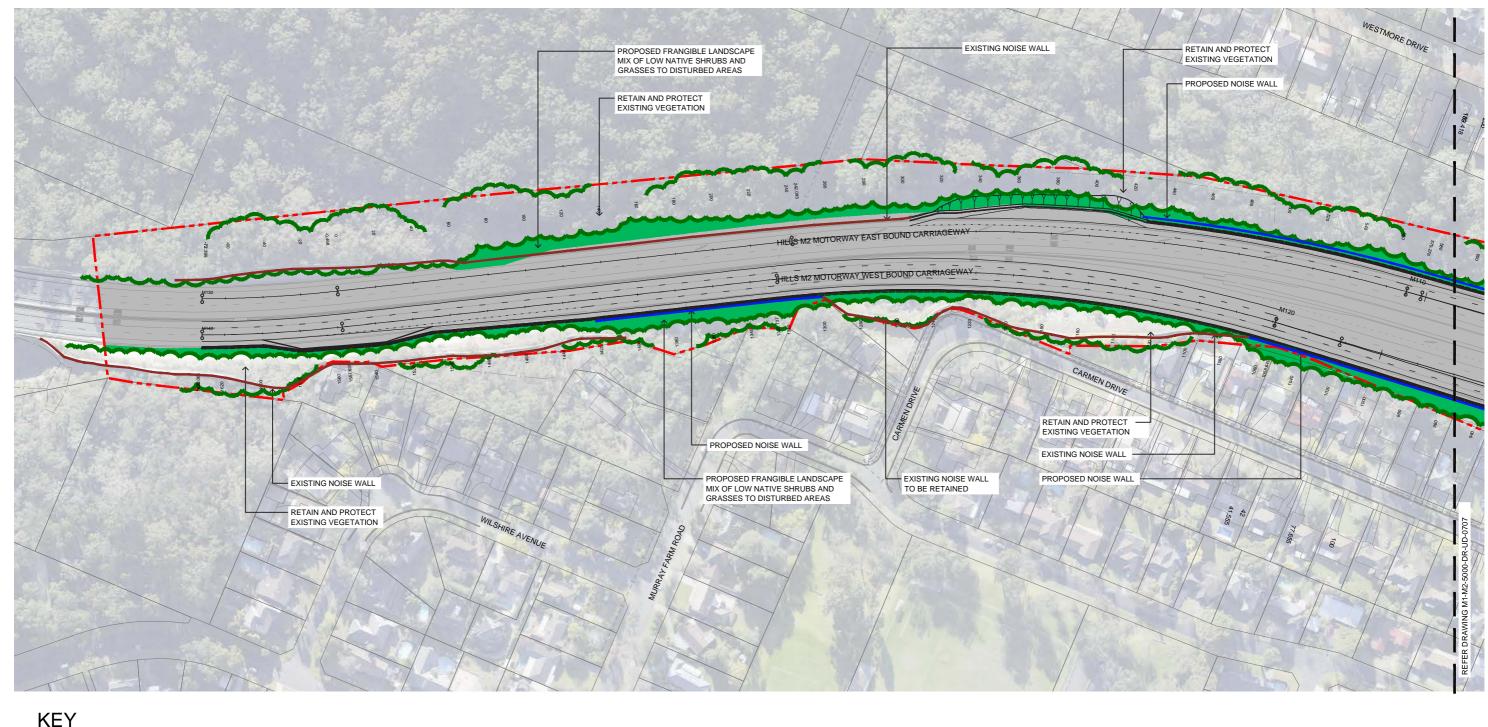


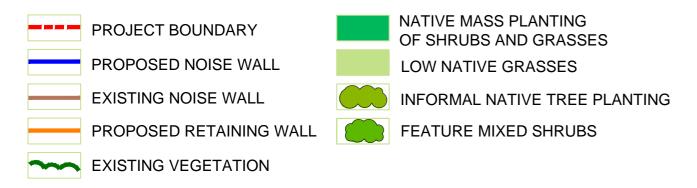




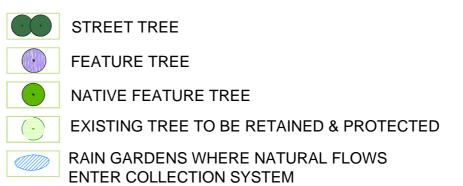








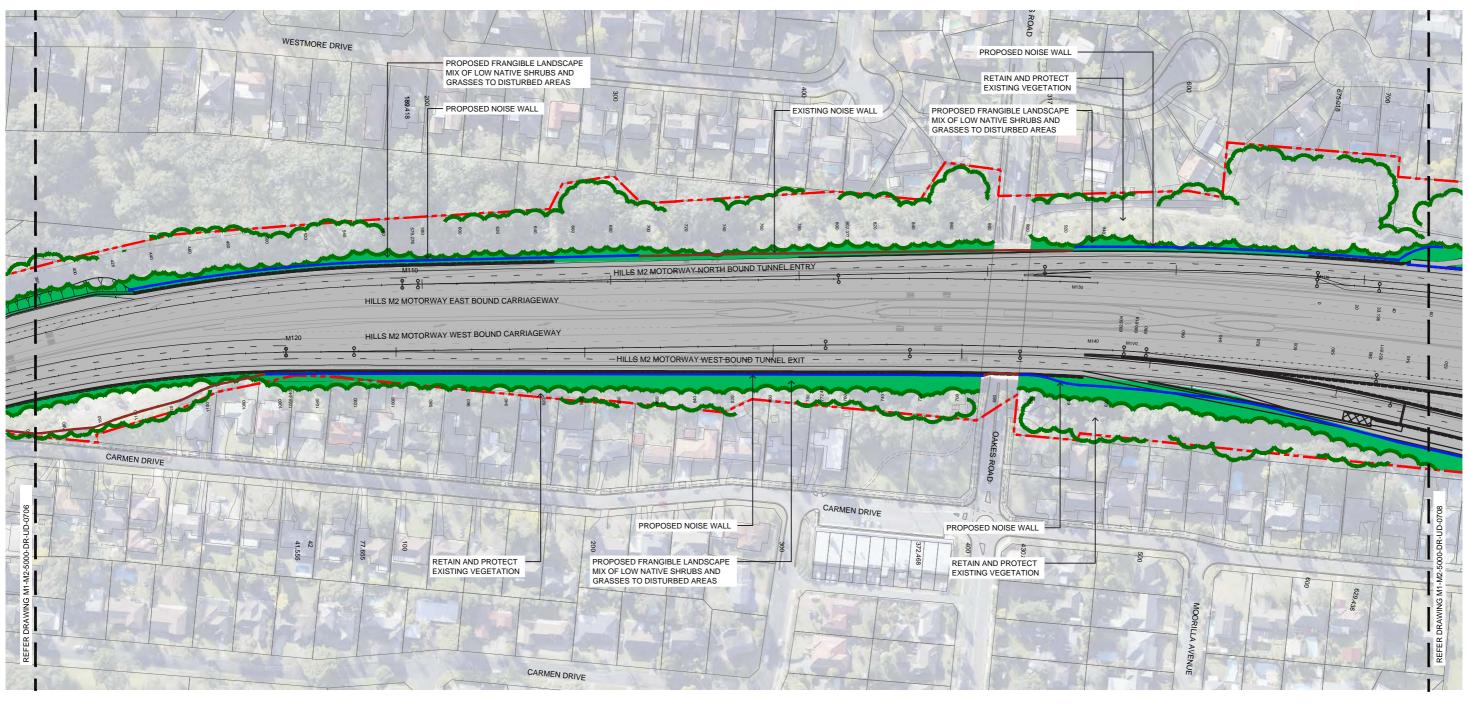
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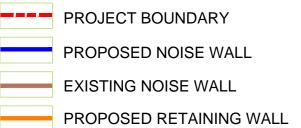


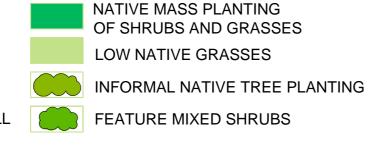




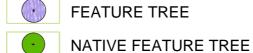




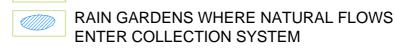


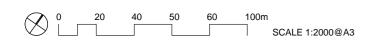












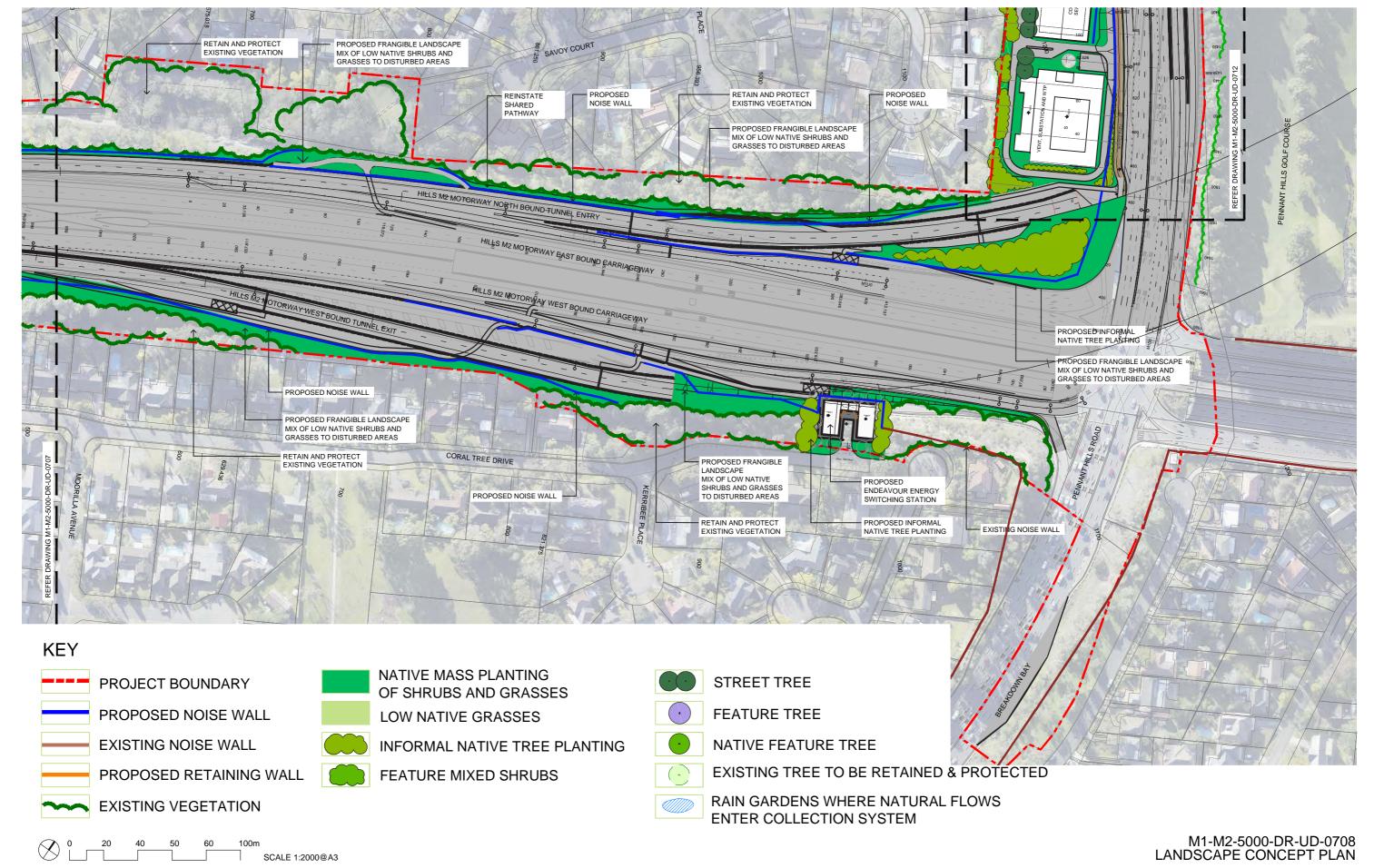
**EXISTING VEGETATION** 

M1-M2-5000-DR-UD-0707 LANDSCAPE CONCEPT PLAN





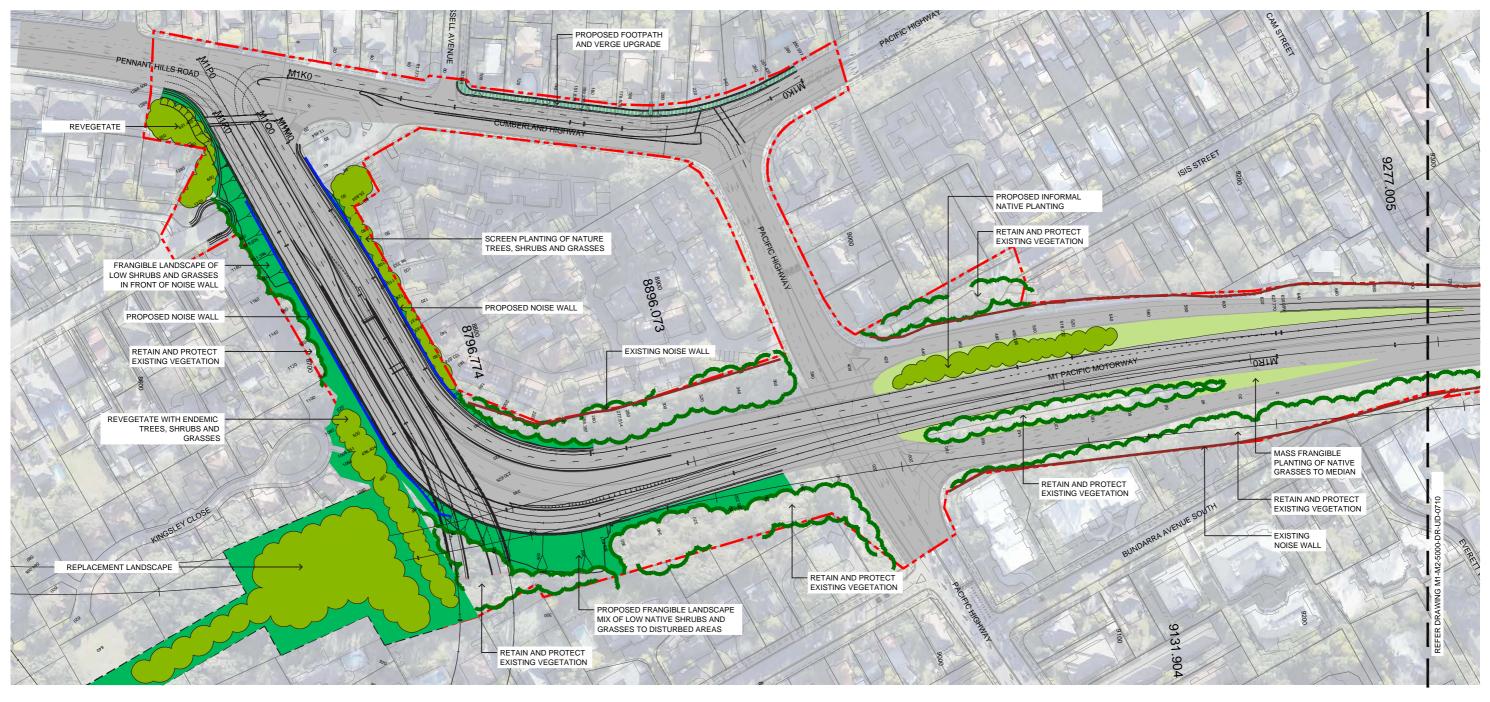


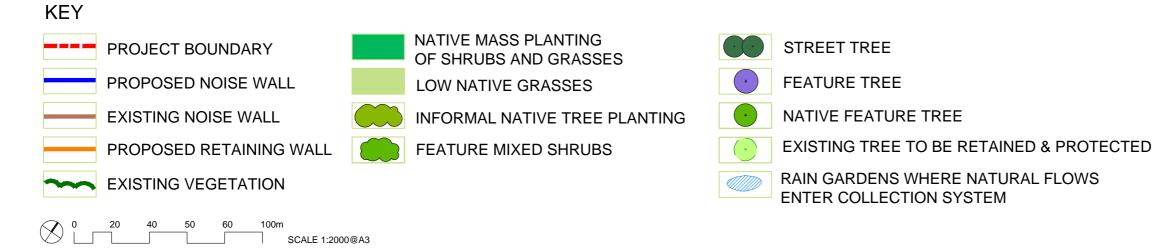










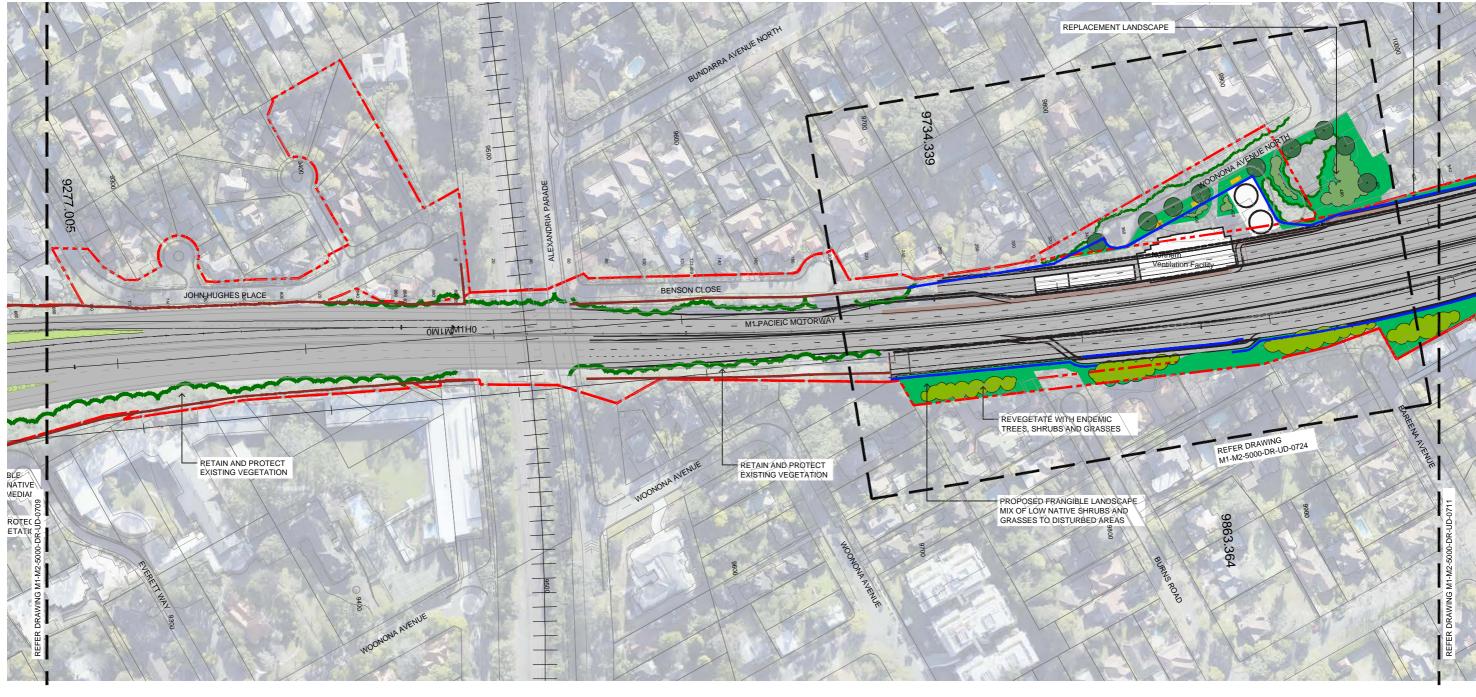


M1-M2-5000-DR-UD-0709 LANDSCAPE CONCEPT PLAN











PROJECT BOUNDARY

PROPOSED NOISE WALL

EXISTING NOISE WALL

PROPOSED RETAINING WALL

NATIVE MASS PLANTING
OF SHRUBS AND GRASSES
LOW NATIVE GRASSES

INFORMAL NATIVE TREE PLANTING
FEATURE MIXED SHRUBS



STREET TREE



FEATURE TREE



NATIVE FEATURE TREE



EXISTING TREE TO BE RETAINED & PROTECTED



RAIN GARDENS WHERE NATURAL FLOWS ENTER COLLECTION SYSTEM



**EXISTING VEGETATION** 

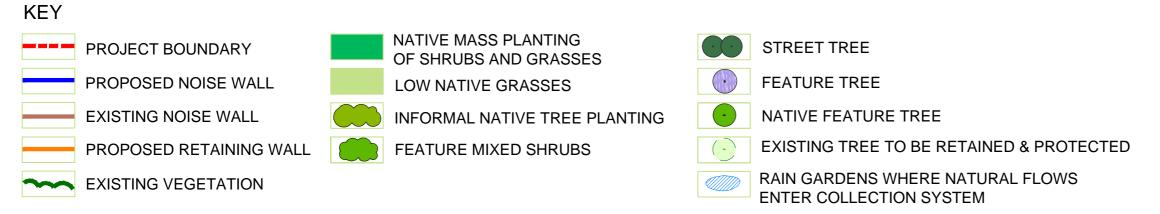
M1-M2-5000-DR-UD-0710 LANDSCAPE CONCEPT PLAN











M1-M2-5000-DR-UD-0711 LANDSCAPE CONCEPT PLAN

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