Compensation Planting – Supporting Notes

- 1.1 Planting is proposed :
 - to compensate for the loss of existing landscape resources and character resulting from the construction of the proposed improvement works :
 - to screen sensitive views, and
 - as an environmental benefit to local residents, workers, recreational users and tourists.
- 1.2 All land disturbed during the course of the works, that will not subsequently be occupied by the permanent works, will be planted with either native woodland or scrub species. As a general approach, where these areas lie within or alongside areas of existing woodland then woodland species will be planted. In areas bordered by tall and low scrub, then appropriate scrub species will be established.
- 1.3 The steepness of slopes poses a constraint on the species that can be planted, however. Slopes with a gradient of not more than 35 degrees would to be suitable for the establishment of tall tree species, and slopes in excess of 45 degrees would not be appropriate for small tree and tall scrub species. Soil cut slopes in excess of 55-60 degrees would not be suitable for the establishment of vegetation and would be hydromulched to provide a green appearance.
- 1.4 The limit of disturbance has been contained as far as is practical to the alignment of the new and widened carriageways. This results in only a very limited amount of space for re-planting. As the road is bordered for the most part by scrub or woodland habitats, there are very few opportunities for additional planting in areas outside the limit of disturbance.
- 1.5 Additional infill planting is also proposed in several open areas alongside the new or existing road corridors, where existing low scrub vegetation would be enhanced with the addition of native tree species.
- 1.6 In determining the quantity of the compensation planting for ecological mitigation, reference has been made to the area of land available for planting, and it's ability to support different types of vegetation (especially restriction of tree planting on steep slopes). Approximately 14.5ha of habitat will be lost as a result of the Tung Chung Road Widening project and a general approach of providing compensation planting more than the area lost has been proposed. Details of the proposed planting are given in Table 1 below. Further details of the species to be used in the planting can been seen in Tables 2 and 3.
- 1.7 The landscape proposal for this project is also shown in the attached figures

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Table 1Proposed Planting

Planting Type	Area (ha)	Description
Native woodland planting	12.0 ha	Newly formed slopes and reinstated disturbed areas alongside existing areas of secondary woodland,
		plantation woodland or tall scrub. Grass hydro-
		seeding with native grass seed mix and groundcover
		plants, with pit planting of native tree species at 1.5
		metre centres
Infill planting	12.5 ha	Planting of native woodland tree species in open areas
		of low scrub to improve ecological diversity.
		Estimated that some 2000 no. new trees per hectare
		could be planted in this manner
Grass hydroseeding with	0.55 ha	Rehabilitation of existing steep slopes by grass hydro-
Groundcover plants, or		seeding with native grass seed mix and groundcover
hydro-mulching		plants or by hydro-mulching
Individual trees	321 no.*	Heavy Standard trees planted in flat ground, or
		pavement tree pits alongside the road
Amenity shrub planting	0.4 ha	Ornamental shrub planting in planter beds alongside
		the road.
TOTAL	25.45ha	

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*not included in area total

Species	Form	Native Woodland Planting	Native Scrub Planting	Infill Planting of Plantation Woodland	Infill Planting of Existing Scrub Areas
Ardisia crenata	Shrub	Х	Х		
Artocarpus hypargyrea	Tree	X		Х	Х
Baeckea frutescens	Shrub		Х		
Bauhinia blakeana	Tree	Х			
Bridelia tomentosa	Tree	Х		Х	Х
Brucea japonica	Shrub		Х		
Castanopis fissa	Tree	Х		Х	X
Celtis tetrandra	Tree			Х	
Cratoxylum ligustrinum	Tree	Х		Х	Х
Diospiros vaccinioides	Shrub		Х		
Enkianthus quinqueflorus	Shrub		Х		
Eurya nitida	Shrub		Х		
Ficus hispida	Tree	Х			Х
Ficus microcarpa	Tree	Х			
Ficus virens	Tree			Х	Х
Gardenia jasminoides	Shrub		Х		
Gordonia axillaris	Tree	Х	Х	Х	
Ilex rotunda	Tree			Х	
Ligustrum sinense	Shrub	Х	Х	Х	
Liquidamber formosana	Tree	Х			
Litsea glutinosa	Tree	Х	Х	Х	
Macaranga tanarius	Tree	Х			
Machilus breviflora	Tree	Х		Х	Х
Machilus chekiangensis	Tree	Х		Х	Х
Mallotus paniculatus	Tree	Х			Х
Phyllanthus emblica	Shrub		Х		
Psychotria asiatica	Shrub	Х	Х		
Rhapiolepis indica	Shrub	Х	Х		
Rhodomyrtus tomentosa	Shrub	Х	Х		
Rhus hypoleuca	Tree	х		Х	Х
Rhus succedanea	Tree	X		Х	Х
Sapium discolor	Tree	х			
Schefflera octophylla	Tree	X		Х	Х
Sterculia lanceolata	Tree	х		Х	Х
Ternstroemia gymnanthera	Tree	X		Х	Х
Trema tomentosa	Shrub		Х		
Zanthoxylum avicennae	Tree	X		Х	Х

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Table 2 Proposed Woodland and Scrub Planting Species

Table 3Other Proposed Planting Species

Groundcovers / Climbers	Grass Species		
Dalbergia millettii	Cynodon dactylon		
Ipomoea cairica	Digitaria longifolia		
Lonicera confusa	Eleusine indica		
Passiflora foetida	Eragrostis tenella		
Smilax glabra	Eremochloa ciliaris		
Strophanthus divaricatus	Eremochloa ophiuroides		
Millettia nitida	Eualia quadrinervis		
Zanthoxyulum nitidum	Fimbristylis spathacea		
Millettia nitida	Ischaemau indicum		
	Miscanthus floridulus		
Ferns	Paspalum conjugatum		
Dicranopteris pedata	Rottboellia exaltata		
Dryopteris championii	Scleria ciliaris		
Pteris ensiformis	Scleria levis		

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