



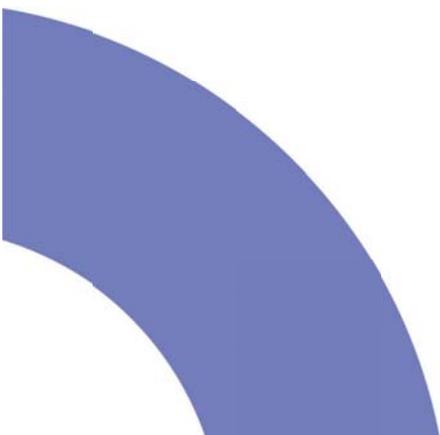
SEMMMS A6 to Manchester Airport Relief Road

Landscape Management Plan

1007/5.7/098 Version 1.0 Revision B



September 2013



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1.0 Introduction

- 1.1.1 This document is a Landscape Management Plan (LMP) for the proposed soft landscaping scheme associated with the construction of the South East Manchester Multi Modal Strategy. The LMP does not include soft landscaping proposals relating to land within the ownership of Manchester Airport, agricultural handback or retained existing planting and grassland.
- 1.1.2 The purpose of the LMP is to set out the short and long term goals for the soft landscaping scheme associated with the development in the interests of the visual, amenity and wildlife of the surrounding area. The proposals comprise of woodland and shrub planting, hedges, advanced nursery stock tree planting combined with various types of grassland.
- 1.1.3 Although this document sets out long term goals and landscape management practices for the first 3 years of the operation of the new highway scheme, it is not intended to be a 'frozen' document that prescribes the maintenance procedures for the entire lifespan of the project. The management of habitats and communities is an imprecise science, concerned with the intervention within a habitat or community to steer it in a particular direction. In order to undertake such management, assumptions shall be made about the direction that a habitat will take. Consequently, it is important that a management plan such as this, shall be encouraged to evolve and develop in parallel with the habitats it oversees. The LMP shall be treated as a 'living' document to change and adapt as the conditions on site change over time.
- 1.1.4 Refer to Document No.1007/5.7/097 Soft Landscaping Specification for all species mixes and operations. For details of the scheme layout refer to Design Freeze 7 Landscape Design Drawing No's. 1007/3D/DF7/A6-MA/LD/215 to 1007/3D/DF7/A6-MA/LD/249.
- 1.1.5 Areas of existing planting to be retained are shown on Mouchel's Mitigation drawings contained within the Environmental Statement (ES).

2.0 Broad Management Objectives

- 2.1.1 The main aim of the scheme is to incorporate the mitigation measures proposed in the ES for the changes to both the landscape/visual aspects of the site and habitats/biodiversity. The proposals reflect the relevant Landscape Character (LCA'S) at regional, county and local levels.

2.1.2 The LMP is designed to meet the following broad objectives:

- ***Enhancement and Integration into the Existing Landscape*** – to maintain and develop the scheme so it becomes integrated with the surrounding landscape.
- ***Nature Conservation and Biodiversity*** – to create, integrate and maintain habitat types, where possible, and to encourage greater bio-diversity which is sustainable within the limits of the site.
- ***Recreation and Education*** – to enhance local use of the site for passive recreation, such as walking along the local public footpath network and for the appreciation of the natural environment.
- ***Visual Amenity*** – to provide an attractive, pleasant scheme that is visually pleasing and safe for road and rights of way users. To provide the screening of various elements to reduce the impact from sensitive visual receptors (properties and viewpoints), to be achieved through rapid and successful establishment.
- ***Auditory Amenity*** – to reduce the adverse noise effects on properties and public spaces through rapid and successful establishment.
- ***Water Quality*** – to maintain and develop the scheme to mitigate the impacts on areas sensitive to flooding, hydrological changes, water course and groundwater.

3.0 Detailed Operations and Work Schedules

3.1 Introduction

3.1.1 The following descriptions and tables outline maintenance practices for the proposed scheme for the first 3 years of operation. After this period, the broad management goals outlined in Section 2 shall be reviewed and the detailed operations revised and adjusted, as required.

3.1.2 The frequency of most landscape maintenance operations is dependent on the weather and growing conditions. The operations described below are therefore for guidance, and shall be carried out by an experienced landscape contractor according to the requirements and conditions of the site.

3.2 Landscape Planting – Woodland and Shrub

3.1.1 The operations outlined in Table 1 relate to the following planting mixes: Woodland (Mix: W1) Woodland Edge (Mix: W2), Linear Belts of Shrubs and Trees (Mix: S1), Shrubs with Intermittent Trees (Mix: S2) and Shrubs (Mix: S3).

3.1.2 All shrub and tree planting shall be managed long term in a manner that ultimately achieves a multi-layered healthy structure. This shall be achieved by a regime of selective thinning, pruning and coppicing, which will not be commenced until an assessment has been carried out after the first 3 years of maintenance. Dead and decaying wood shall either be removed from site or where appropriate, left on site safe to provide additional habitat for small mammals, mosses and invertebrates.

OPERATIONS	Years	J	F	M	A	M	J	J	A	S	O	N	D	Comment
Inspection Visit & General Review	1 to 5									X				
Plant Replacement	1 to 5		X											As required
Watering	1 to 3				X	X	X	X	X	X				Essential operation if risk of drought
Re-affirming	1 to 2		X											
Removal of Litter	1 to 5	X		X		X		X		X		X		
Plant Support & Protection (Check, adjust replace & remove canes, spiral rabbit guards & mulch mats)	1 to 5		X											
Slow Release Fertiliser	1 to 5									X				
Coppicing	5											X		
Apply Total Herbicide to 600mm.dia of Each Plant	1 to 5				X		X		X		X			

Table 1 Woodland and Shrub Operations

Note: Operations are shown in the months required and the table does not indicate the number of visits required.

3.3 Landscape Planting – Individual Trees

3.3.1 The operations outlined in Table 2 relate to the following planting mixes: Individual Trees (Mix: T) and Native Species Hedgerow with Trees (Mix: H).

3.3.2 Feathered, standards and semi-mature size trees shall be located throughout the landscape scheme proposals. Trees shall be managed to avoid conflict with pedestrian and road users in a manner to retain a form typical of the representative species.

OPERATIONS	Years	J	F	M	A	M	J	J	A	S	O	N	D	Comment
Inspection Visit & General Review	1 to 3			X										
Plant Replacement	1 to 3			X										As required
Watering	1 to 3				X	X	X	X	X	X				Essential operation if risk of drought
Plant Support & Protection (Check, adjust replace cane stakes, ties & mulch mats)	1 to 3		X											
Slow Release Fertiliser	1 to 3									X				
Apply Total Herbicide to 1200 mm.dia of Each Plant	1 to 3				X		X		X		X			
Prune Out Dead & Damaged Wood	1 to 3	X	X											As required

Table 2 Individual Trees

Note: Operations are shown in the months required and the table does not indicate the number of visits required.

3.4 Landscape Planting – Hedgerows

3.2.1 The operations outlined in Table 3 relate to mix: Native Species Hedgerow with Trees (Mix: H).

3.2.2 All hedgerow planting shall be managed long term in a manner to achieve a stock proof 'A' shaped profile. This shall be achieved by a regime of selective trimming and coppicing. Dead and decaying wood shall either be removed from site or where appropriate left on site safe to provide additional habitat for small mammals, mosses and invertebrates.

OPERATIONS	Years	J	F	M	A	M	J	J	A	S	O	N	D	Comment
Inspection Visit & General Review	1 to 3		X											
Plant Replacement	1 to 3		X											As required
Watering	1 to 3				X	X	X	X	X	X				Essential operation if risk of drought
Plant Support & Protection (Check, adjust replace cane stakes, ties & mulch mats)	1 to 3		X											
Slow Release Fertiliser	1 to 3									X				
Apply Total Herbicide to 600mm.dia of Each Plant	1 to 3				X		X		X		X			

Table 3 Hedgerow Operations

Note: Operations are shown in the months required and the table does not indicate the number of visits required

3.5 Grassland – Amenity Grassland and Open grassland

3.5.1 The operations outlined in Table 4 relate to the following grassland mixes: Amenity Grassland (Mix: G1) and Open Grassland (Mix: G3)

3.5.2 The grassland shall be maintained to promote a healthy vigorous sward free of disease, fungal growth, discolouration, scorch or wilt and to ensure rapid ground cover to prevent gully erosion and loss of soil onto road or footpath surfaces.

OPERATIONS	Years	J	F	M	A	M	J	J	A	S	O	N	D	Comment
Inspection Visit & General Review	1 to 3									X				
Supplementary Seeding	1 to 3				X									As required
Watering	1 to 3				X	X	X	X	X	X				As required
Removal of litter	1 to 3	X		X		X		X		X		X		As required
Apply Selective Weed Spot Treatment	1 to 3				X		X		X		X			
Grass cut to Highway Verges only	1 to 3			X		X		X		X				

Table 4 Amenity and Open Grassland Operations

Note: Operations are shown in the months required and the table does not indicate the number of visits required

3.6 Grassland – Species Rich Grassland

3.6.1 The operations outlined in Table 5 relate to the following grassland mix: Species Rich (Conservation) Grassland (Mix: G2).

3.6.2 Grasslands shall be managed to produce a species rich sward with a mix of grasses and wildflowers. Cuttings shall be removed to prevent nutrient build up in the grassland areas and species monitored to prevent grasses from dominating the sward.

OPERATIONS	Years	J	F	M	A	M	J	J	A	S	O	N	D	Comment
General Review of Grassland Areas	1 to 3									X				
Supplementary Seeding	1 to 3			X	X	X								As required
Watering	1 to 3				X	X	X	X	X	X				As required if there is a risk of drought
Removal of Litter	1 to 3	X		X		X		X		X		X		
Grass Cut							X			X				Remove cuttings after mid summer cut after annuals flowered. Remove cutting after September cut

Table 5 Species Rich Grassland Operations

Note: Operations are shown in the months required and the table does not indicate the number of visits required

Appendix A - Revision History

This section lists the controlled revisions made to the document.

Version Number	Changes	By	Date
1.0	Issued to Naz Huda (SMBC Engineering Services)	SMBC L D & D	24 th February 2012
1.0 Rev A	Issued to Naz Huda (SMBC Engineering Services) Reference to Soft Landscape Specification document updated in item 1.1.4	SMBC L D & D	07 th May 2013
1.0 C	Issued to Naz Huda (SMBC Engineering Services) Planting types Wet Woodland Mix W3 and Wet Grassland Mix: G5 omitted.	SMBC L D & D	10 th September 2013