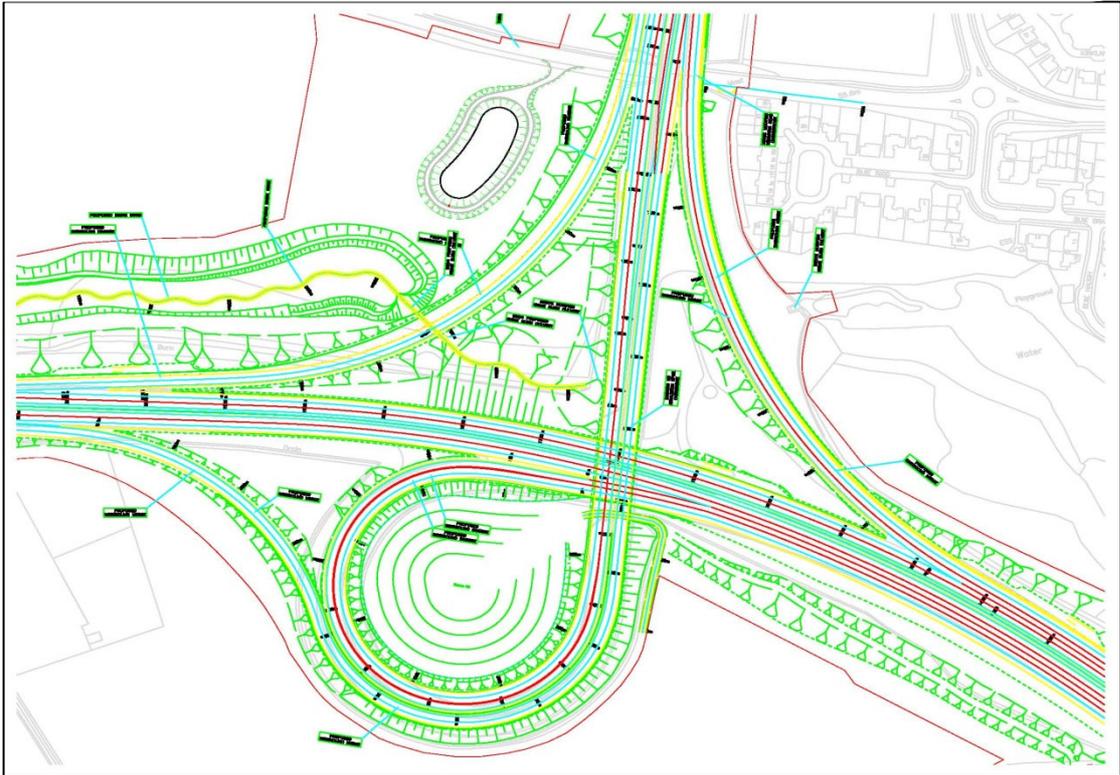




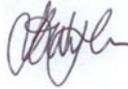
FORTH REPLACEMENT CROSSING M9 Junction 1a – Project Quality Plan: Volume 4 LANDSCAPE MANAGEMENT PLAN



FORTH REPLACEMENT CROSSING M9 Junction A1

Landscape Management Plan

CONTROLLED DOCUMENT			
(Unless Printed)			
Report No:LMP02			
Status:	Construction Issue	Copy No:	Issue 2

	Name	Signature	Date
Prepared by:	Roland Tarrant		March 2012
Checked SRB:	Seamus O'Brien		March 2012
Checked GIFFORD:	John Wyles		March 2012
SRB Approved:	Seamus O'Brien		March 2012

Revision Record					
Rev	Date	By	Summary of Changes	Chkd	Aprvd
01	18th September 2011	RT	Reflect EDT, Statutory Bodies and Local Authorities Consultations and Review	SOB	SOB
02	14 th March	RT	To reflect review by SRB	SOB	SOB

Landscape Management Plan

Objective:

To carry out construction works so that disturbance to the landscape is contained within the construction site in order to protect the existing landscape elements such as soils, woodland, trees, hedges, grassland and other habitat.

Introduction:

This Landscape and Visual Management Plan details how SRB will undertake the works on the Forth Replacement Crossing M9 Junction 1A project. This plan includes details of the controls to protect the landscape from construction activities together with measures to be implemented to manage and maintain landscape works provided as part of the project. Measures to be implemented to mitigate visual impacts from the construction works will also be described.

The plan was prepared in accordance with the following:

- Section 13 of the Code of Construction Practice;
- Environmental Statement for the project;
- SRB Integrated Management System and
- Consultation and compliance with SNH and relevant local authorities

Key Issues:

Visual:

- To the north of M9 Junction 1A, Humbie Farm and Western Humbie (receptor 68-RS on Figure 13.8c) would receive impacts of Moderate significance during the winter year of opening due to the loss of existing vegetation around the junction. By the summer, 15 years after opening, impacts would reduce to slight significance as a result of the screening provided by the development of the proposed mitigation planting along the embankments and around the detention basin. For Humbie Cottages (receptor 69-RS) the loss of existing vegetation around M9J1A would represent a minor change to the views, although the majority of the changes would be screened by the rolling farmland adjacent to the dwellings. However, the properties would receive impacts of Slight/Negligible significance both during the winter year of opening and the summer after 15 years due to the introduction of a gantry over the southbound M9 Spur as it approaches the M9 Junction 1A.
- In the area around Kirkliston, the visual impact of the revised M9 Junction would be limited to several nearby properties by surrounding topography and the embankments of the M9 Spur. Existing views from Burnbank and Overton Cottages (receptor 67-RS) are dominated by the embankments of the M9. The westbound merge slip road for the revised junction would be visible from the dwellings, but would not represent a significant change to views, with the main impacts arising from the loss of established vegetation around the junction and the introduction of new signage and ITS for the junction, resulting in impacts of Negligible significance both during the winter year of opening and summer after 15 years.
- To the west of Kirkliston, impacts for views from right of way from Swineburn Wood (receptor F2-RS on Figure 13.7) and the B9080 between the M9 and Humbie Farm shelterbelt (receptor F3A-RS) from the eastbound link at M9 Junction1A would be Negligible, as the proposed scheme would be seen against the backdrop of the existing M9 Spur embankments. Between the shelterbelt at Humbie Farm and the M9 Spur (receptor F3B-RS), users of the B9080 would notice a minor change to views due to the loss of the

existing vegetation around the junction, resulting in impacts of Slight significance during the winter year of opening which would reduce to Slight/Negligible in significance following the development of the proposed mitigation planting.

- Between Ross Plantation and Niddry Burn, travellers on the M9 (receptor R6-RS) would gain views of the revised M9 Junction 1A, with impacts resulting from the loss of existing vegetation and the introduction of gantries and lighting around the junction. During the winter year of opening, this section of the M9 would be subject to impacts of Slight/Negligible significance, which would be reduced to Negligible in significance by the summer after 15 years by development of the proposed mitigation planting. Similar impacts would affect the views from the M9 Spur between the edge of Dundas Estate and M9 Junction 1A (receptor R7-RS).

Landscape:

- An Area of Outstanding Landscape Quality (AOLQ), designated by the Rural West Edinburgh Local Plan (RWELP), is located close to the M9 Junction 1A project at Humble Reservoir as shown on Figure 12.1d of the ES.
- The woodland surrounding a dwelling on Manse Road has a Tree Preservation Order in place.
- Historical Account: Near Winchburgh, shale was mined from the mid-1800's to the 1950's to produce paraffin. Large deposits of shale waste, known as 'bings' remain from this industry as a distinctive feature of the local landscape.
- To the southeast of the southern study area, Kirkliston also has a conservation area, surrounded by more recent development.

Description	Location	Figure No:	Overall Sensitivity
Wooded Lowland Hill and Valley LLCA	Humble	12.1d	High
Designed Wooded Landscape LLCA	Newliston	12.1d	High
Disturbed Farmland LLCAs	Craigton	12.1d	Low to Medium
Lowland Plain LLCA	River Almond	12.1d	Medium to High
Lowland Plain LLCA	Overton	12.1d	Medium
Urban LLCA	Kirkliston	12.1d	Medium
Industrial LLCA	Newbridge Industrial Area	12.1d	Low to Medium
Existing Road Corridor LLCA	M9/M9 Spur	12.1d	Low

Management & Mitigation:

Location specific mitigation/off-set measures are illustrated in Figure 12.4j-n of the ES.

The general mitigation measures that will be employed throughout the project are as follows:

- The layouts of construction compounds and storage area will aim to reduce disruption. Where practicable, existing trees to be retained and screening bunds and planting provided.

- SRB will avoid unnecessary tree and vegetation removal and will protect existing trees in accordance with BS 5837 Trees in relation to construction.
- SRB will undertake the procurement, movement, handling, storage, planting and maintenance of plant material in accordance with the following standards, as appropriate:
 - BS 3936-1 Nursery Stock. Specification for trees and shrubs.
 - BS 3936-4 Nursery Stock. Specification for forest trees, poplars and willows.
- Works will be programmed to minimise the disruption period.
- Night-time working will be restricted to essential activities to minimise light pollution.
- Dust and noise will be kept to a minimum through the provision of mitigation measures (as outlined in the Noise & Vibration Management Plan).
- The sourcing, testing, stripping, handling, storage and spreading of site-won and imported topsoil will comply with BS 6031 Code of Practice for earthworks.
- SRB will consult with SNH, relevant local authorities, the airport operator of Edinburgh Airport, community councils and adjacent landowners, as appropriate, regarding the landscaping and planting proposals.
- Earthworks and follow-on topsoiling operations will be carried out as early as possible within the Project, allowing planting to take place at the earliest opportunity.
- SRB will provide a Landscape Clerk of Works who will be responsible for implementation of the Landscape Management Plan.
- If damage occurs to the landscape adjacent to the construction site, SRB will consult with the owners and occupiers of the land in advance of taking entry to the land to undertake any remedial works. Entry to the land will be undertaken in accordance with Paragraph 3.6.3 of the CoCP.

Location specific mitigation measures include the following:

Location	Mitigation Measures	Impact Significance	
		Winter, year of opening	Summer, after 15 years
Urban Area: Kirkliston	<u>M9 Spur s/b embankment at northwest edge of Kirkliston:</u> Mixed woodland planting will replace lost woodland.	Slight	Negligible
	<u>M9 CH1250-1480 s/b:</u> Mixed woodland will be provided to integrate cutting into existing woodland pattern.	Slight	Negligible
	<u>M9 CH980-1150 s/b:</u> Scrub woodland planting will be provided to screen embankment and noise barrier	Slight	Negligible
	<u>M9 Spur s/b to M9 CH1100 e/b:</u> Verge grassland will be provided in disturbed soft areas outwith planting	Slight	Negligible
Lowland Plain: Overton	<u>M9 CH2500-2600 w/b, northeast of Ross's Plantation:</u> Scrub planting around SUDs detention basin will	Slight	Negligible to Slight

	provide screening and integration.		
	<u>M9 CH2180-2600 w/b</u> : Species rich grassland will be provided on embankment and SUDS area out with planting.	Slight	Negligible to Slight
	<u>M9 CH1300-1600 w/b</u> : Mixed woodland planting will integrate cutting into existing woodland planting	Slight to Moderate	Slight
	<u>M9 w/b to M9 Spur n/b link</u> : Scrub woodland will integrate junction.	Slight to Moderate	Slight
	<u>M9 Spur s/b to M9 w/b link, south of M9 CH1680-2180-2150</u> : Hedgerow will be provided to tie boundary of new slip road into existing field boundaries and reinforce edge of existing woodland on slip road embankment.	Slight to Moderate	Slight
	<u>M9 CH1300-2180 w/b</u> :Verge grass seed will be provided in disturbed soft areas out with planting, as per changes agreed with EDT and LCoW	Slight to Moderate	Slight
Designed Woodland Landscape: Newliston	<u>M9 CH1200-1300 n/b, east end Lindsay's Craigs woodland</u> : Mixed woodland planting at northern SUDs detention basin will be provided to replace lost woodland, provide screening and integrate with Lindsay's Craigs woodland.	Slight	Slight
	<u>M9 CH600-780 & M9 CH1100-1150</u> : Scrub planting on re-graded embankments and at southern SUDs detention basin will provide screening and integration.	Slight	Slight
	<u>M9 CH600-1300 n/b</u> : Species rich grassland will be provided in SUDs basin and disturbed soft areas out with planting.	Slight	Slight
Lowland Plain: River Almond	<u>M9 Ch600-980 s/b</u> : Species rich grassland will integrate regraded embankment.	Slight	Negligible to Slight
Industrial: Newbridge	<u>M9 CH300-550 n/b</u> : Scrub woodland will replace lost woodland on embankment.	Negligible to Slight	Negligible
	<u>M9 Ch0-600 n/b</u> : Species rich grassland will be provided on regraded embankments out with planting.	Negligible to Slight	Negligible
Visual Mitigation throughout site	Where lighting is essential, all reasonable precautions will be undertaken to reduce energy consumption and avoid/reduce the amount of light pollution of the night sky and rural landscape where this can be achieved safely and effectively.	N/A	N/A

Monitoring:

SRB will undertake appropriate inspection, monitoring and maintenance of landscaping and planting provided as part of the project to facilitate the effective establishment of vegetation and record the effectiveness of landscaping proposals.

The weekly environmental inspections will include a section on landscaping and visual issues on site.

References

- BS 3936-1:1992 Nursery stock. Specification for trees and shrubs, British Standards Institution

- BS 3936-4:1984 Nursery stock. Specification for forest trees, poplars and willows, British Standards Institution
- BS 3998:1989 Recommendations for Tree Works, British Standards Institution
- BS 5837:2005 Trees in Relation to Construction, British Standards Institution
- BS 6031:1981 Code of Practice for Earthworks, British Standards Institution
- Wildlife and Countryside Act 1981, as amended