

The Highland Council
Skye, Ross and Cromarty Area Committee
28 October 2013

Agenda Item	6
Report No	SRC 02/13

Maintenance Programme for Roads and Bridges

Report by Director of Transport, Environment and Community Services

Summary

This report invites Members to approve the Maintenance Programmes for Resurfacing and Bridge Maintenance for the Skye, Ross and Cromarty Area for 2013/14, and to note the Surface Dressing Programme which was completed earlier this year.

1. Introduction

- 1.1 The Highland Council has a statutory obligation under the Roads (Scotland) Act 1984 to manage and maintain the local public road network.
- 1.2 The budget for roads maintenance is set by the Transport, Environmental and Community Services Committee and is devolved to Area level for operational purposes.
- 1.3 Maintenance programmes are prepared by the Area Roads and Community Works Managers in accordance with the principles set out in the Road Asset Management Plan and presented to Members for approval.

2. Budget Distribution

- 2.1 The Road Maintenance budgets are allocated under the following headings:

Winter Maintenance (Revenue)

Cyclic Maintenance (Revenue) including:

- Surface Dressing
- Verge maintenance
- Road Marking Renewal
- Sign Maintenance
- Drainage Maintenance
- Gully Cleansing
- Footpath Maintenance
- Patching
- Other Cyclic and Routine Maintenance

Structural Maintenance (Capital) including:

Road Structural Maintenance
Bridge Structural Maintenance

2.2 A broad description of these activities is provided in **Appendix 1** to this report.

2.3 This report focusses on the 2013/14 programmes for:

- Surface Dressing (**Appendix 2**)
- Road Structural Maintenance (**Appendix 3**)
- Bridge Maintenance (**Appendix 4**)

3. Road Maintenance Programmes

3.1 Schemes were selected for inclusion in these programmes on the basis of need using information gathered from a variety of sources.

- SRMCS road condition survey and map based computer analysis – using data gathered at road speed using specialist survey vehicles and equipment
- Safety Inspections
- Detailed Inspections
- Requests from Members and members of the public

3.2 Schemes have been prioritised with the safety of the travelling public and sustainability of the road network as the main objectives. The main factors considered are:

- Road condition
- Likelihood of further deterioration
- Lifeline status
- Usage and traffic level
- Public and school transport route
- Economic and social need

4. Implications

4.1 There are no resource implications as all proposals are within the allocated budgets.

4.2 There are no legal implications arising from this report.

4.3 There are no known equalities issues, although maintenance of the road network will enable better access to services for everyone.

4.4 New patterns of rainfall seem to be occurring leading to wash out and blockage of drains. The focus on drainage improvements for the additional funding and the proposed camera survey techniques will help to mitigate the

situation while at the same time reducing the exposure of the road construction layers to water seepage thus extending the life of the road.

4.5 There are no risk implications arising from this report.

5. Recommendation

5.1 Members are invited to:

- i. Approve the Maintenance Programmes for Road Structural Maintenance and Bridge Structural Maintenance for the Skye, Ross and Cromarty Area for 2013/14; and
- ii. Note the Surface Dressing Programme which was completed earlier this year.

Designation: Director of Transport, Environmental & Community Services

Date: 30 September 2013

Author: Cameron Kemp, Area Roads & Community Works Manager,
Ross, Skye & Lochaber
Campbell Stewart, Area Roads & Community Works Manager,
Caithness, Sutherland & Easter Ross

Appendix 1 - Skye, Ross and Cromarty Area Road and Bridge Maintenance Activities

Activity - Surface Dressing

The Highland Council has a statutory obligation under the Roads (Scotland) Act 1984 to manage and maintain the local road network. This activity delivers a programme of road maintenance treatments, or works, on carriageways, footways and cycleways that repair surface defects such as cracking or polishing of the surface aggregates. Treatments that seal the surface prolong the life of the asset by preventing ingress of water which can lead to frost damage and deterioration of the constituent construction materials. It is also very important to maintain adequate friction levels for safety reasons.

For carriageway, footways and cycleways the treatments will include:

- Surface dressing: bitumen spray and stone aggregate chippings
- Thin surface materials
- Specialist friction enhancing treatments

Activity - Structural Maintenance

The Highland Council has a statutory obligation under the Roads (Scotland) Act 1984 to manage and maintain the local road network. This activity delivers a programme of road maintenance treatments, or works, that repair defects affecting the structural strength and life of the asset; including bridges, retaining walls, cattle grids, road restraint systems, carriageways, footways and cycleways.

For carriageways, footways and cycleways the treatments will include:

- Overlay and inlay of bituminous materials – the wearing course
- Complete renewal of one or more of the structural layers, using recycled materials where available.

For bridges, retaining walls, cattle grids and road restraint systems treatments will include:

- Renewal of bridge decks
- Pressure grouting of masonry
- Repairs to other structural elements
- Grid replacement
- Repairs to grid elements
- Barrier replacement

Activity - Cyclic Maintenance

The Highland Council has a statutory obligation under the Roads (Scotland) Act 1984 to manage and maintain the local road network.

This activity includes the reactive and routine (cyclic) maintenance tasks:

- Reactive – responding to inspections, complaints and emergencies; make safe plus temporary and permanent repairs.
- Routine – regular consistent scheduled works, generally:
 - Minor works and patching
 - Drainage; cleaning and repair
 - Grass cutting
 - Management of landscaped areas and trees
 - Tensioning and repair of fences and barriers
 - Cleaning and repair of traffic signs and bollards
 - Replacement of road markings and studs
 - Cleaning and minor works to bridges and structures

Appendix 2

Skye, Ross and Cromarty Area - Surface Dressing Programme 2013

Ward	Route	Location	Length	Width	Road area(m2)	Progress at 23 Sept 2013
7 – Cromarty Firth	C1063	Tomich - Newmore	350	5.5	1925	Resurfacing of failed 2012 surface dressing site. Programmed for March 2014
8 – Tain & Easter Ross	U1904	Kindeace House	2050	3	6,150	Complete
	C1004	Fendom Corners			745	Remedial works for 2011 chip loss. Complete
	C1004	West of Inver Junction			1,970	Remedial works for 2011 chip loss. Complete
6 – Lochalsh	C1221	Erbusaig - Duirinish	1950	varies	10,900	Complete
6 – Lochalsh	U4895	Wee Strathie	1850	3.3	6105	Complete
6 – Lochalsh	C1222	Achnandarach - Achmore	2720	3.3	8976	Complete
6 – Lochalsh	A890	Stromeferry Viewpoint	910	6.0	5460	Complete
6 – Lochalsh	C1223	Glenelg Hill	1750	3.3	5775	Complete
6 – Wester Ross	A835	Knockan	200	6		Complete
6 – Wester Ross	A835	South of Drumrunie	1635	5.5	8993	Complete
6 – Wester Ross	A835	Strathcannaird Bridge	400	6.75	2700	Complete
6 – Wester Ross	A835	Ardmair	850	6	5100	Complete
6 – Wester Ross	A835	Glutton Flats	925	6	5500	Complete
6 – Wester Ross	A834	Jamestown to Contin	2150	5.5	11825	Complete
6 – Wester Ross	A832	Dundonnell - Badralloch	2645	5.5	14548	Complete
6 – Wester Ross	A832	Fain - Braemore	2350	5.5	12925	Complete
6 – Wester Ross	U3394	Blughsary	1080	3	3240	Complete
6 – Wester Ross	U3065	Kinnahaird Brae	650	3.5	2275	Complete
9 – Dingwall and Seaforth	A832	Balvattie to Muir of Ord	1925	6	11550	Complete
9 – Dingwall and Seaforth	B9169	By Black Isle show ground	1300	5.5	7150	Complete
10 – Black Isle	U2621	Milton, by Culbokie	1025	3.25	3331	Complete
11 – Eilean a' Cheo	B8083	Torrin	900	3.3	2970	Complete
11 – Eilean a' Cheo	B8083	Faoilean – Arincreaga	2710	3.3	8943	Complete

11 – Eilean a' Cheo	B8083	Kilmarie – Ringill Forest	2625	3.3	8662	Complete
11 – Eilean a' Cheo	C1242	Tokavaig – Ord Bridge	1750	3.3	5775	Complete
11 – Eilean a' Cheo	C1242	Ord Grid – Coill a' Ghasgain	1370	3.3	4521	Complete
11 – Eilean a' Cheo	C1225	Brogaig Jct - Quiraing	4000	3.3	13200	Complete
11 – Eilean a' Cheo	U4797	Garafad	900	3.3	2970	Complete
11 – Eilean a' Cheo	A855	Balmaqueen Jct - Brogaig Hill	5170	varies	29015	50% Complete. Carry over to 2014 Season
11 – Eilean a' Cheo	B8009	Glenbrittle Jct – Eynort fork	600	4.0	2400	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	B8009	Distillery Hill - Carbostbeg	1550	4.0	6200	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	B8009	Fernilea	1230	3.3	4059	Carry over to 2014 Season
11 – Eilean a' Cheo	B8009	Branch Road to Ardtreck Jct	1500	4.0	6000	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	C1236	Eynort Hill	2500	3.3	8250	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	C1237	Glenbrittle Hill	2210	3.3	7293	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	B883	A87(T) Jct – Maggies Rd Jct	1040	3.7	3848	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4832	Maggies Road	1030	3.7	3811	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4784	Glenconnon	2350	3.3	7755	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4768	Sheader	2200	3.3	7260	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4742	Borneskitaig	4300	3.3	14190	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4795	Conista	1620	3.3	5346	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4783	Flodigarry	1000	3.3	3300	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	A855	Bridge Rd – Scorrybreak Jct	900	3.3	5400	Carry over to 2014 Season
11 – Eilean a' Cheo	U4815	Cuillin Hills Jct to Bridge	250	4.5	1125	Carry over to 2014 Season
11 – Eilean a' Cheo	U4984	Mill Park	90	6.0	540	Patched only. Carry over to 2014 Season
11 – Eilean a' Cheo	U4820	Windsor Crescent	230	6.0	1380	Carry over to 2014 Season
11 – Eilean a' Cheo	A855	Wentworth Street	95	6.0	570	Carry over to 2014 Season
11 – Eilean a' Cheo	U4831	Glengrasco - Mugeary	5150	3.3	16995	Patched only. Carry over to 2014 Season

Appendix 3

Skye, Ross and Cromarty Area

Capital Structural Road Maintenance Programme 2013

Ward	Route	Location	Length	Width	Road area(m2)	Progress at 23 Sept 2013
6 – Lochalsh	C1221	Erbusaig - Drumbuie	300	3.3	990	Programmed Feb/Mar 2014
6 – Lochalsh	C1223	Shiel Bridge – Ratagan Jct	600	3.3	1980	Programmed Feb/Mar 2014
6 – Lochalsh	U4893	Colliemore - Duirinish	300	3.3	990	Programmed Feb/Mar 2014
6 – Lochalsh	A890	Lochalsh Dam	800	6.0	4800	Programmed Feb/Mar 2014
6 – Wester Ross	U3006	Marbank to Aultgowrie	550	4	2200	Complete
6 – Wester Ross	U3118	Achilty – Meig Dam	500	3.8	1900	Complete
6 – Wester Ross	B8021	Sand	500	4	2000	Complete
6 – Wester Ross	B8021	North Erradale	500	4	2000	Complete
6 – Wester Ross	A890	Achnasheen to Lochcarron	900	7.5	6750	Complete
6 – Wester Ross	U3095	Ardival Terrace	100	5	500	Programmed for Autumn 2013
6 – Wester Ross	C1091	Inverbain to Ardheslaig	400	4	1600	Programmed for Spring 2014
6 – Wester Ross	U3005	Fairburn Loop Road	100	4	400	Programmed for Spring 2014
6 – Wester Ross	A890	Kishorn Hill	400	4	1600	Programmed for Spring 2014
7 – Cromarty Firth	U1987	Dalreoch	385	2.5	963	Complete
	U4239	Mackean Crescent, Invergordon	160	7.0	1120	Complete
	U2001	Glenglass Road	30	2.8	84	Complete
	U1991	Glenglass road	605	2.8	1694	Complete
	U1992	Swordale road	1400	2.7	3780	Recycling Trial. Programmed for March 2014
	A862	Mineral Bridge	50	6	300	Programmed for Autumn 2013

8 – Tain & Easter Ross	C1004	Arboll - New Geanies	590	5.0	2950	Programmed for March 2014
	U1549	Wester Tarbet	450	3.5	1575	Complete
	U1426	Lady Street, Hilton	120	5.0	600	Complete
	U1891	Brenachie Road	1200	2.7	3240	Recycling Trial. Programmed for March 2014
9 – Dingwall and Seaforth	U3060	Loch Ussie	400	3	1200	Complete
9 – Dingwall and Seaforth	U3061	Knockfarrel	240	3	720	Complete
9 – Dingwall and Seaforth	C1213	Kinairdie Brae	200	6	1200	Programmed for March 2014
10 – Black Isle	B9169	Culbokie Main Street	1000	1.2	1200	Complete
10 – Black Isle	B9169	Crask Junction	50	7	350	Complete
10 – Black Isle	B9161	Munlochy to Littlemill Bridge	500	1.6	800	Complete
10 – Black Isle	B9163	Balblair	500	2	1000	Surfacing Complete
10 – Black Isle	U2626	Glascairn Road	380	3.6	1368	Complete
10 – Black Isle	U2637	Drummondreach	80	4.6	368	Complete
10 – Black Isle	U2704	Bogroy farm Road	200	3	600	Complete
10 – Black Isle	C1027/ C1031/ U2585	Tore – Killen at Belmaduthy	400	3.8	1520	Programmed for Autumn 2013
10 – Black Isle	U2549	Long Road	275	7	1925	Programmed for Autumn 2013
11 – Eilean a' Cheo	U4768	Sheader	370	3.3	1110	Complete
11 – Eilean a' Cheo	U4800	Borneskitaig	835	3.3	2756	Complete
11 – Eilean a' Cheo	U4795	Connista	300	3.3	990	Complete
11 – Eilean a' Cheo	U4783	Flodigarry	300	3.3	990	Complete
11 – Eilean a' Cheo	A855	Duntulm Castle – Carn Mor	550	3.3	1815	Complete
11 – Eilean a' Cheo	C1242	Tarskavaig	1040	3.3	3432	Complete
11 – Eilean a' Cheo	B883	Braes	1100	3.3	3600	Complete

11 – Eilean a' Cheo	C1237	Glen Brittle	1000	3.3	3300	Complete
11 – Eilean a' Cheo	A851	Armadaile/ Ardvassar Jct	250	6.0	1500	Complete
11 – Eilean a' Cheo	A863	Drynoch	925	6.0	5550	Programmed Feb/Mar 2014
11 – Eilean a' Cheo	B8083	Broadford	920	4.5	4140	Programmed Feb/Mar 2014
11 – Eilean a' Cheo	A851	Broadford	250	6.0	1500	Programmed Feb/Mar 2014
11 – Eilean a' Cheo	A855	Portree	400	6.0	2400	Programmed Feb/Mar 2014

Appendix 4

Skye, Ross and Cromarty Area

Bridge Maintenance Programme 2013

Ward	Bridge code	Bridge Name	Description of works	Progress at 23 Sept 2013
6 – Wester Ross	A08900100	Coulags Bridge	Repair accident damage to masonry parapet	Complete
6 – Wester Ross	C10910070	Applecross Bridge	Scour protection repair to pier and embankment	Complete
6 – Wester Ross	A08960120	Allt Coire Roill	Repair accident damage to steel parapet	Programmed for Autumn 2013
6 – Wester Ross	C10910020	Inverbain	Repair accident damage to Aluminium parapet	Programmed for Autumn 2013
6 – Wester Ross	C10830030	Alligin Shuas	Repair accident damage to tube rail parapet and masonry approach wall	Complete
6 – Wester Ross	U37580010	Inveralligin	Repair tube rail parapet	Complete
6 – Wester Ross	A08960090G01	Glen Mor Estate	Replace single track cattlegrid with double track grid	Programmed for Autumn 2013
6 – Wester Ross	U3711Grid01	Culduie	Replace cattlegrid	Programmed for Autumn 2013
7 – Cromarty Firth	B91760040	Dalneich (New Bridge)	Repair accident damage. Repair other pointing and stone work.	Programmed for Autumn 2013
	B91760050	Crannich	Clear invert and reprofile bed	To be carried out during winter 2013/14 subject to resources.
	C10230020	Clyne	Repair accident damage	
	U19910010	Redburn	Repair accident damage	
8 – Tain & Easter Ross	C10080010C60	Arabella	Repair accident damage	Programmed for Autumn 2013
	U14600000C80	Meddat Culvert	Repair accident damage	Programmed for Autumn 2013
9 – Dingwall and Seaforth	U31420010		Repair accident damage to masonry parapet	Programmed for Autumn 2013

9 – Dingwall and Seaforth	U30060020	Aultgowrie	Repair accident damage to masonry parapet	Programmed for Autumn 2013
10 – Black Isle	C10310010	Killen	Repair accident damage to tube rail parapet and masonry approach wall	Complete
10 – Black Isle	B91610010	Littlemill Bridge	Repair accident damage to masonry parapet	Complete
10 – Black Isle	A08320020R67	Avoch Sea Wall	Repair accident damage to masonry parapet	Complete
11 – Eilean a' Cheo	A08500400	Redburn (Greshornish)	Replace Approach & Departure Safety Fence & Pedestrian Protection Fencing	Complete
11 – Eilean a' Cheo	U47450010	Henderson Bridge (Raasay)	Pressure Pointing & Vegetation Clearance	Programmed Oct/Nov 2013
11 – Eilean a' Cheo	C12330010G43	Peiness 5	Replacement Grid	Complete
11 – Eilean a' Cheo	C12420010G56	Tokavaig South	Replacement Grid	Complete
11 – Eilean a' Cheo	C12360010G99	East of Hawkhill Jct	Replacement Grid	Complete
11 – Eilean a' Cheo	B80090030G25	Carbost Bridge	Replacement Grid	Complete
11 – Eilean a' Cheo	P-A850_RRS0240	Edinbane Loop 2	Repair accident damage	Complete
11 – Eilean a' Cheo	P-A863-RRS0380	Hair pin bend above Drynoch	Repair accident damage	Complete