

The Highland Council
City of Inverness and Area Committee
3 June 2013

Agenda Item	11
Report No	CIA/030/13

Maintenance Programme for Road and Bridge Works

Report by Director of Transport, Environmental and Community Services

Summary

This report invites Members to approve the Maintenance Programmes for Surface Dressing, Resurfacing, and Bridge Maintenance for the City of Inverness and Area for 2013/14.

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 Manager 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
- Signs 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 deals specifically with budgets and programmes for structural maintenance, including bridges, and surface dressing.
- 2.4 Budget allocations to the Areas for the current year were set by the Transport, Environmental and Community Services Committee on 16 May 2013 and the allocations for the City of Inverness and Area are:

Maintenance Budgets £	Revenue	Capital
Surface Dressing	£329,899	£228,662
Road Resurfacing – Structural Maintenance		£489,548
Share of additional £2million	£335,563	
Bridge Maintenance		£84,642
Additional allocation		£55,000
Total	£665,462	£857,852

- 2.5 This report focusses on the 2013/14 programmes for:

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

The appendices also list some of the candidate schemes for future years.

- 2.6 These programmes specifically support the following element of the Programme for the Highland Council:

“Working together for better infrastructure”

“We will spend preventatively on our roads according to need.”

- 2.7 The Council was allocated additional capital grant on the condition that it is spent on projects that are ready to go but are not already funded in the capital programmes for 2012/13 or 2013/14 (Report HC-48-12 to the Council on 7 March refers). Two road surfacing works projects were approved for the City of Inverness and Area as detailed below:

- King Duncan’s Road: resurfacing - £25k
- A833 Culnakirk Brae: resurfacing and culvert renewal - £30k

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 Last year Members reviewed and prioritised extensive lists of schemes in Ward Business meetings and agreed the 2012/13 programme at this committee on 13 August 2012. The prioritised lists have been carried forward to this year and the remaining schemes, with additions, considered for inclusion in the 2013/14 programmes.

3.3 Schemes have been prioritised with the safety of the travelling public and sustainability of the road network as 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

3.4 Members of the TECS Committee on 16th May 2013 agreed that the additional £2m for preventative spend would be targeted at two main areas:

- Keeping water off the road by improving drainage maintenance
- Road surface treatments to improve the condition of the road surface.

As this allocation has only recently been made and works programmes are still being prepared, proposed lists of work in all Wards will be provided to Members as soon as possible for comment through Ward Managers.

3.5 There are extensive reserve lists of projects for each programme that can be made available to Members in each Ward.

4. Surface Dressing

4.1 The proposed programme for Surface Dressing is set out in **Appendix 2**.

5. Road Resurfacing

5.1 The proposed programme for Road Resurfacing is set out in **Appendix 3**.
Note: some items cover all Wards.

6. Bridge Maintenance

6.1 Bridge work is identified through a programme of inspections at regular intervals, and the programme for 2013/14 is contained in **Appendix 4**.

7. Implications

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

7.2 There are no legal implications arising from this report.

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

7.4 New patterns of rainfall seem to be occurring leading to wash out and blockage of drains. The focus on drainage improvements during 2012/13 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.

7.5 There are no risk implications arising from this report.

8. Recommendation

8.1 Members are invited to approve the Maintenance Programmes for Surface Dressing, Road Structural Maintenance and Bridge Maintenance for the City of Inverness and Area for 2013/14.

Designation: Director of Transport, Environmental and Community Services

Date: 22 May 2013

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Surface Dressing

This activity involves 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 carriageways, footways and cycleways the treatments will include:

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

Road Resurfacing - Structural Maintenance

This activity involves treatments, or works, that repair defects affecting the structural strength and life of the asset; including bridges, retaining walls, 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 and retaining walls treatments will include:

- Renewal of bridge decks
- Pressure grouting of masonry
- Repairs to other structural elements

Cyclical Maintenance

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

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

INVERNESS SURFACE DRESSING PROGRAMME 2013/14
APPENDIX 2

Ward no	Road Class & No.	Description	Location	Width	Length	Area
INVERNESS CITY & CULLODEN						
14	U	Kinmylies Way	Whole Length	6	520	3120
14	U	Old Steading Rd	Whole Scheme	6	320	1920
15	U	Kessock Av	Whole length of Blacktop	8.4	320	2688
15	U	St Marys Avenue	To turning circle (80m x 5m)	6	80	480
15	U	Wyvis Place	Whole length of Blacktop	5.5	386	2123
15	U	Benula Rd	Whole length of Blacktop	6.5	325	2112.5
16	U	Lodge Rd	Whole length of Blacktop (SMA)	7	232	1624
16	U	Delnies Park	Whole length of Blacktop	5	55	275
16	U	Ardness Pl	Whole Scheme	6	880	5280
16	U	Holm Park	Whole Scheme Excluding Bus Area	6	750	4500
17	U	Somme Cr	Whole length of Blacktop	5.5	142	781
17	U	Anzio Rd	Whole length of Blacktop	5.5	65	357.5
17	U	Rhine Dr	Whole length of Blacktop	4.5	53	238.5
17	U	Abertarff Rd	Whole Length	7	160	1120
17	U	Beaufort Rd	Whole Length	6	177	1062
17	U	Lovat Rd	Whole Length	6	310	1860
18	U	Caulfield Road North (Resaurie)	Under rail bridge to Murray Road	6	746	4476
18	U	Caulfield Road North (Resaurie)	Side Road to new Scheme	3.5	95	332.5
18	U	Culloden Centre Access Rd	Culloden Centre Access Rd	6	0	0
18	U	Keppoch Road	Mini Roundabout to Galloway Dr (SMA)	6.5	210	1365
18	U	Barn Church Rd	Front of Garage (SMA)	6.5	160	1040
18	U	Lochlann, Culloden	Whole Scheme	6	1372	8232
18	U	Ormond Dr, Balloch	Whole Length	5.5	108	594
18	U	Balloch School Access Rd	From Culloden Rd to speed hump	5.5	88	484
20	C	Culloden Rd, Balloch	Viewhill to Edgemoor Park (SMA)	6	480	2880
20	U	Brinckman Terrace, Westhill	From junction with Culloden Rd (SMA)	6	50	300
20	U	Towerhill Av, Westhill	From Junction with Caulfield Rd	6	100	600
20	U	Inshes Brae, Westhill	Whole Scheme	6	426	2556

INVERNESS SURFACE DRESSING PROGRAMME 2013/14
APPENDIX 2

Ward no	Road Class & No.	Description	Location	Width	Length	Area
INVERNESS AREA RURAL						
13	B862	Inverness - Dores	Auldourie School	6	520	3120
13	B862	Inverness - Dores	Kindrummond & Cattle Grid (Blacktops)	5.5	400	2200
18	B9092	Inverness - Croy	Smithstown Corners	6	700	4200
18	B9092	Inverness - Croy	Balangown Woods	6	1050	6300
18	B9006	Inverness - Croy	Cantray Corner	6	300	1800
20	B851	Culloden Moor - Daviot	Culloden Moor - Daviot (3 Sections)	5	5100	25500
13	CC24	Cabrigh Road	Mid section	3.5	1300	4550
13	C	Fanellan Rd	Blacktop	3.5	3000	10500
13	U	Fasnakyle	Blacktop (Deleted)	5	0	0
13	U	Kerrow	Blacktop (Deleted)	3.2	0	0
13	U	South Clunes	Blacktop	3	960	2880
13	U	Bunloit Road	Upper Lenie to Far End	3.5	4060	14210
13	U	West Lewiston	Part Length	5	550	2750
13	U	Cannich - Struy	2 sections (3900,1800)	3	5700	17100
13	U	Achnabat - East Croachy	B862 to 330m North of No 1 cattle grid	3	640	1920
13	U	Achnabat - East Croachy	Cattle grid No 2 to Zig Zags	3	800	2400
13	U	Achnabat - East Croachy	North Of No 2 Cattle Grid	3	330	990
13	U	Achnabat - East Croachy	Zig Zags to No 3 Cattle Grid	3	1200	3600
13	U	Achnabat - East Croachy	No 4 Cattle Grid to Loch Ruthven	3	1690	5070
13	U	Achnabat - East Croachy	Elrig Farm	3	490	1470
13	C	Inverness - Ashie Moor	North of Duntelchaig Rd Junct	3.75	1080	4050
13	U	Bona Rd	Blacktop	3.2	1100	3520
13	U	Farr - Garbole Road	From B851 to cattle grid No 1	3.5	1550	5425
14	U	Gorthleck Spur Rd	Blacktop	3.5	850	2975
18	U	A96 to Castle Stuart Link	A96 to Castle Stuart Link	3.5	650	2275
18	C	Tornagrain - Cantray	From Tornagrain South	4	660	2640
18	U	Easter Glackton	Loch Flemington to Easter Glackton	3	1100	3300
18	U	Castle Stuart - Easter Dalziel	Incl 4 passing places	3	750	2250
18	U	Campbletown, Ardersier	Whole Length	6	120	720
18	U	Smithstown	South from Junction with B9092	3	220	660

INVERNESS ROAD MAINTENANCE PROGRAMME 2013/14
APPENDIX 3

Ward	Road Class & No.	Description	Location	Treatment	Width m	Length m	Area sqm	Estimate
All		Permanent Patching including Jet Patcher	All Wards	Budget				£114,000
TBC		Recycling Pilot	To be confirmed	Budget				£50,000
All		Safety Barrier Renewal	To be confirmed	Budget				£22,500
13	B851	Aberarder Bridge		Plane and Inlay	6.5	50	325	£7,150
13	B852	Dalcrag - Foyers to Chaplebridge		Shape and Overlay	4	600	2400	£40,800
14		Assynt Road	Junction	Plane and Inlay	5	100	500	£11,000
14		Ballifeary Lane/Springfield Gdns		Plane and Inlay	5	150	750	£16,500
15		Celt Street	Kenneth to Duff St	Plane and Inlay	6	130	780	£17,160
15		Strothers Lane - Railway Terrace	Various	Plane and Inlay				£30,000
15		Carsegate Road North	Various	Plane and Inlay				£20,000
15		Bishops Road, (drainage / coaches) to complete	Cathedral to Ardross St	Plane and Inlay	3.1	70	217	£4,774
17		Raigmore Ave/Old Perth Rd Junction Safety	Junction	Plane and Inlay				£30,000
18	U	Culloden Centre, Access Road	whole main length	Plane and Overlay	7	200	1400	£23,000
18		Loch Flemington		Shape and Overlay	3	600	1800	£30,600
20		Culloden Road Balloch - Widening at Treeton		Widening				£25,000
20	B9006	Caulfield Road to Simpsons		Plane and Inlay	8.5	250	2125	£46,750
TOTAL								£489,234

INVERNESS BRIDGE MAINTENANCE PROGRAMME 2013/14
APPENDIX 4

Ward	Bridge Code	Bridge Name	Description of Works	Estimate
13	U15680010	Reelig Bridge	Repair curtain wall on both sides of bridge and reinstate the road surface. Remove parapets on both side and replace with new wooden parapets. Clear the vegetation built up on both channels of the carriageway and also on the timber deck edges. Repair the wingwall foundation on the east abutment - upstream side of the bridge.	£30,000
13	U21080010	Meg Stone Bridge	Repair parapets on both sides.	£ 5,000
13/20	U11160010	Allt Beag Bridge	Replace wooden parapets on both sides of the bridge, repoint and repair abutments and wingwalls.	£ 5,350
13	U12210010	Gourag	Parapet in need of repair on the South side.	£ 8,000
13	C10360010	Culloden Rail Bridge	Vehicle impact on safety barrier which needs to be fixed	£ 4,000
13	B08620030	Doe Bridge	Reinstate edge of carriageway on approach to bridge and extend safety fence	£ 8,500
13	A8620100	Beauly Station	Make corner of South East parapet safe, clear the vegetation growing through the slabs on footpath, repair concrete which has decayed by North East parapet.	£ 5,500
13	A08310040	Polmaily	Remove vegetation growth on the slabbed area of footway, fix the kerbs on the south side of the road.	£ 3,500
13	A08310050	Balnain Smithy	Remove the vegetation on the footways and replace broken slabs. Fill in scour hole and regrade invert.	£ 5,500
13	C11000010	Old Moniack	Clear debris from watercourse, clean and remove vegetation from road surface and clear vegetation from on and in front of wingwalls	£ 5,000
13	C10720020	Belladrum	Anti-skid surface to be placed on timber deck, sand blasting and painting of all steel elements and remove vegetation from wingwalls and embankment	£ 3,500
TOTAL				£83,850