

The Highland Council
Sutherland County Committee

24 May 2016

Agenda Item	7.
Report No	SCC/ 12/16

Maintenance Programme for Roads and Bridges

Report by Director of Community Services

Summary

This report invites Members to approve the Maintenance Programmes for Roads and Bridges for the Sutherland Area for 2016/17.

1. Background

- 1.1 The 2016/17 budget allocation for road maintenance operations, and its distribution between the eight new Local Committee areas, was approved at the Community Services Committee at its meeting on 28 April 2016. This report therefore outlines the proposal for road maintenance in accordance with the budget.
- 1.2 The proposed Community Services Committee local allocations can be found at **(Appendix 1)** to this report.

2. Budget Allocation

- 2.1 The Road Maintenance budgets are allocated under the following headings:
- **Winter Maintenance (Revenue)**
 - **Cyclic Maintenance (Revenue)** including:
 - Verge maintenance
 - Road Marking Renewal
 - Sign Maintenance
 - Drainage Maintenance
 - Gully Cleansing
 - Footpath Maintenance
 - Patching Repairs
 - Other Cyclic and Routine Maintenance
 - **Structural Maintenance (Capital)** including:
 - Structural – Resurfacing (Overlay/Inlay)
 - Structural Integrity Improvements
 - Surface Dressing
 - Bridge Maintenance including cattle grids and other structures

- **Additional Capital** including:
 - Structural Road Maintenance
 - Road Markings
 - Bridge Maintenance

2.3 For operational purposes this report combines the budget allocations for Structural Resurfacing, Structural Integrity Improvements and Additional Capital, as these operations are a pre-cursor to Surface Dressing operations in subsequent years.

2.4 The projects for the Additional Capital programme were previously approved by Community Services Committee on 4 February 2016

2.4 This report focuses on the 2016/17 programmes for:

- Structural – Resurfacing (Overlay/Inlay), Surface Dressing and Additional Capital surfacing (**Appendix 2**); and
- Bridge Maintenance (**Appendix 3**).

3. Road Structural Maintenance Programmes

3.1 Schemes were selected for inclusion in these programmes on the basis of need using information gathered from the following sources and have been prioritised with the safety of the travelling public and sustainability of the road network as the main objectives.

- Scottish Road Maintenance Condition Survey (SRMCS) data
- Safety Inspections
- Service Inspections
- Input and feedback from Ward Members

3.2 The Scottish Road Maintenance Condition Survey (SRMCS) records data which is processed to show rutting, profile, cracking and surface texture. Surface texture is principally used in the preparation of surface dressing programmes. Rutting and profile data is used for surfacing programmes, while cracking data is used in both surface dressing and surfacing programmes.

3.3 The SRMCS survey is undertaken according to the following schedule:

- A class roads Annually
- B class roads Every two years
- C & U class roads Every three years

3.4 The SRMCS survey is presently up to date. The surveys are usually undertaken throughout the spring, summer and autumn but do not include winter damage due to the freeze thaw cycle.

3.5 The SRMCS data is processed after the survey and is displayed on Williams

Detail Management (WDM) geographical information system. WDM allows the survey information to be plotted alongside roads. The information is colour coded according to the condition of the road.

- 3.6 WDM can produce a paper plan showing the damage over a wide area but the volume of data and the scale of the plan results in the data being difficult to use or handle. The system is best used interactively, using both an over view and then closer inspection at a smaller scale. Small scale prints can be produced for specific sites.
- 3.7 Given the survey frequency, the SRMCS data is only indicative of the road conditions at any one time. Additional deterioration and repairs may not be captured on the survey. Consequently additional sources of information are used.
- 3.8 All roads are inspected either monthly, quarterly or annually for safety hazards depending on their priority. Roads are also inspected in the course of preparing the works programmes. These inspections, together with specific concerns raised through Members and Community Councils, are considered for inclusion in the works programmes.
- 3.9 The programmes are prepared over the winter months and are finalised in the spring to allow for additional damage due to freeze thaw cycle. The programmes reflect both the strategic network and the importance attached to local roads by rural communities.
- 3.10 Prior to finalising the programmes, each site is again visited by experienced engineers to confirm the importance of the works against the network and the details of the designs.

4. Bridge Maintenance

- 4.1 Schemes were selected for inclusion in this programme on the basis of defects reported during the programmed cycle of Principal and General Inspections on bridges in excess of 5.0 metres.
- 4.2 Only relatively minor works of a non-specialist, routine maintenance type nature, are generally included in the works programme. More significant works are included in the Capital Programme funded separately. The Bridge Maintenance programme also includes repair and replacement of cattle grids.

5. Implications

- 5.1 The combined programme for Structural Resurfacing and Structural Integrity Improvements enables the Council to meet its duty under the Roads (Scotland) Act 1984 within the Local Committee area.
- 5.2 This report has no impact on Equality, Gaelic, Climate Change or Carbon Clever considerations. However, there may be rural considerations where the lower road usage levels and distances between communities reduce the

opportunity to maximize the impact of investment decisions when compared to more densely populated area /roads with greater usage levels.

- 5.3 All work will be managed within budget allocations from a resource perspective with the Council delivering its legal responsibilities.

Recommendation

Members are invited to approve the Maintenance Programmes for Roads and Bridges for the Sutherland Local Committee Area for 2016/17.

Designation: Director of Community Services

Date: 13 April 2016

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Appendix 1

Appendix 1 - Roads Budget Allocation 2016-17 (v1.3)

Description	Total	HQ	Caithness	Sutherland	Ross & Cromarty	Island of Skye	Nairn	Badenoch & Strathspey	Lochaber	Inverness
REVENUE										
Winter Allocation	£4,981,756	£92,624	£550,736	£967,177	£1,348,772	£383,359	£111,873	£396,441	£303,771	£827,003
Cyclic Maintenance	£5,356,389	£20,000	£585,382	£1,040,600	£1,299,777	£469,831	£200,032	£301,270	£529,597	£909,900
Drainage	£203,588		£22,333	£39,700	£49,588	£17,924	£7,631	£11,494	£20,205	£34,713
Gully Emptying	£300,000		£26,313	£15,713	£80,272	£6,123	£12,909	£18,509	£24,633	£115,527
Bridge Structural Maintenance	£607,042		£42,384	£128,518	£140,367	£51,043	£13,672	£43,751	£104,820	£82,488
Safety Barriers (Bid to HQ)	£250,000	£250,000								
Water Course Maintenance (Bid to HQ)	£250,000	£250,000								
Total Revenue Budget	£11,948,775	£612,624	£1,227,148	£2,191,707	£2,918,776	£928,280	£346,117	£771,465	£983,025	£1,969,632
CAPITAL Allocation (£4.5M)										
Structural - Overlay/Inlay	£1,150,000		£125,611	£203,323	£259,640	£128,911	£33,248	£65,927	£141,271	£192,069
Structural Integrity Improvements	£1,500,000		£379,189	£446,641	£0	£0	£91,446	£216,361	£367,854	£0
Surface Dressing	£1,500,000		£0	£0	£643,362	£337,150	£0	£0	£0	£517,998
Bridge Maintenance (HQ/CSE)	£350,000	£350,000								
Sub Total Capital	£4,500,000	£350,000	£504,799	£649,964	£903,002	£466,062	£124,694	£282,287	£509,124	£710,067
Additional Capital (£24.3M Year 1)										
Structural Road Maint (SRMCS)	£2,150,000		£234,837	£380,126	£485,415	£241,008	£62,160	£123,254	£264,115	£359,085
Road Markings (HQ/Area)(Road Length)	£150,000	£150,000								
Bridge Maintenance (CSE)	£400,000	£400,000								
Sub-Total Additional Capital	£2,700,000	£550,000	£234,837	£380,126	£485,415	£241,008	£62,160	£123,254	£264,115	£359,085
Total Capital Allocation	£7,200,000	£900,000	£739,637	£1,030,091	£1,388,417	£707,069	£186,854	£405,541	£773,239	£1,069,152

Appendix 2

Resurfacing Programme 2016/17

Ward	Route	Location	Length (m)	Width (m)	Road area (sq m)	Comments
1 – North, West & Central Sutherland	B871	Kinbrace – Syre Rd	1500	3	4500	
	A838	Gualin - Durness	1400	3	4200	
	A838	Rispond – Erribol	1400	3	4200	
	A835	Elphin Village	500	5.5	2750	
	A837	Benmore Embankment, Ledmore	500	4.5	2250	
	A837	Cassley Br – Memorial, Rosehall	600	4.5	2700	
	A836	Vagastrie Brae, Lairg	1400	3	4200	
	A839	Gunns Wood, Lairg	870	6	5220	
	C1078	Tirryside, Lairg	1000	3	3000	
	A839	The Lochies – Rosehall, Lairg				Additional Capital scheme
	A836	Ardgay – Ardchronie				Additional Capital scheme
5 – East Sutherland and Edderton	C1030	Harbour Rd, Brora	350	5.5	1925	
	U3077	East Millicent Ave – Fountain Rd, Golspie	100	4	400	Also known as Hen Run
	U3284	Achvaich Rd, Dornoch	1200	3	3600	
	U3284	Camore Crescent, Dornoch	300	5.5	1650	
	C1026	Dornoch – Embo Rd	600	2	1200	
	C1026	Dornoch – Embo Rd				Additional Capital scheme

Appendix 3

Bridge Maintenance Programme 2016/17

Ward	Bridge code	Bridge Name	Description of works	Comments
1 – North, West & Central Sutherland	A08370170G88	Cattle grid, eastern approach to Lochinver	Replace	
	C10340090	Braesgill Br	Replace bridge following Storm Bertha in 2013	
5 – East Sutherland and Edderton	A0837069	Tuteum	Rebuild damaged parapet following vehicle accident. Unable to recover costs.	
	C11380010	Culeave	Rebuild damaged parapet following vehicle accident. Unable to recover costs.	
	C11400030	Alt na Ghlinnie	Repairs to masonry parapets and rail	
	U224420030	Dalmore	Strip deck replace waterproof. Resurface.	