

Agenda item	6
Report no	RC/016/19

THE HIGHLAND COUNCIL

Committee: Ross and Cromarty Committee

Date: 1 May 2019

Report Title: 2018/19 Area Structures Progress Report

Report By: Director of Community Services

1 Purpose/Executive Summary

- 1.1 This report provides an update on the work undertaken on the Area Structures Programme for 2018/19 financial year.

2 Recommendations

- 2.1 Members are asked to note the contents of the report.

3 Structures Assets

- 3.1 In Ross and Cromarty there are 361 bridges, 89 culverts and 199 retaining walls that are on adopted roads.

4 Finance

- 4.1 Structures maintenance and repairs are funded from Ross and Cromarty's Area Revenue Budget.

The 2018/19 structures budget was set at £117,200.

At the end of February 2019 £170,045, or 145%, of the budget has been spent.

5 Bridge Inspection Programme

- 5.1 All bridges receive General and Principal Inspections. General Inspections are undertaken on a risk based inspection cycle of either two or three years as approved at the November 2018 EDI Committee. The risk based inspection intervals are dependent on condition, exposure and risk of deterioration as set out in the guidance issued by the Society of Chief Officers of Transportation in Scotland.

Principal Inspections are undertaken at 6, 9, or 12 year intervals.

An inspection programme for all other structures such as retaining walls is being prepared based on a three yearly cycle of inspections. This inspection programme will be implemented in phases from 2019/20.

- 5.2 Bridge General Inspections are undertaken by Area staff. Area staff and duties are as follows:-

Road Operations Manager based in Dingwall

- Responsible for ensuring the General Inspections are undertaken
- Approving design work
- Award of contract for any works externally sourced
- Compliance with Quality Assurance procedures

Senior Engineer based in Portree

- Approving design work
- Award of contract for any works externally sourced
- Compliance with Quality Assurance procedures

Bridge Technician based in Dingwall

- Ensuring all General Inspections are undertaken in accordance with the programme
- Compiling a list of all works to be undertaken
- Designing and supervising minor repairs and maintenance works

The following staff assist the Bridge Technician as required:

- Senior Technician based in Dingwall
- Technician based in Ardelve Depot
- Roads Inspector based in Ardelve Depot

- 5.3 2018/19 Bridge General Inspection Programme

With the exception of a limited number of inspections, the 2018/19 General Inspection Programme was started in January 2019 following the appointment of the Bridge Technician. Sixty-nine bridges were identified for the 2018/19 General Inspection Programme.

At the end of March 2019 67 bridges had been inspected. This represents 97% completion. Two inspections were deferred as Newhall Bridge was replaced in 2017/18 and a principal inspection is programmed for Dublin Bridge in 2019/20.

The bridges inspected are listed in **Appendix A**.

5.4 2018/19 Principal Inspection Programme

Principal Bridge Inspections are undertaken on bridges with greater than 5 m spans by the Development and Infrastructure Structures Team based in Alness.

At the end of March 2019 40 bridges had been inspected out of a total of 40.

The bridges inspected are listed in **Appendix B**.

5.5 2018/19 Bridge Maintenance Programme

The following repairs were undertaken in 2018/19:-

- B9176 Newbridge Retaining Wall
 - A minor land slide at Newbridge Retaining Wall on the B9176 Struie Road occurred in March 2018
 - Concrete blocks were placed on the road to direct traffic away from the land slip and temporary traffic lights established
 - Work included excavating debris behind the top of the retaining wall cope to form a trench which will trap any further minor land slips
 - Tender awarded to Strath Civils Ltd for £30,000
 - Following completion of the works a minor land slip occurred with approximately 1t of material trapped by the cope and prevented from falling onto the road below.

- Braeintra Bridge
 - Stone work repairs to structure and removal of temporary Mabey Quick Bridge

- Cairn Gorm Bridge
 - 3.2 m span masonry arch bridge with arch deformation caused by subsidence in abutments.
 - The existing structure was demolished and replaced with a pre-fabricated Mabey Quickbridge on replacement foundations.
 - Masonry works were undertaken by D A Macrae Ltd and civils works by D N Munro.

- Sallachy Bridge
 - Removal of steel plate to examine structure prior to future works.

- Averon Pedestrian Bridge, Alness
 - Made safe damaged railings for future permanent repairs.

- Little Mill Bridge, Munloch
 - Accident repairs Stagecoach.
 - All costs to be recovered from Stagecoach.
- Clearing vegetation from bridges across R&C
 - Prevents roots damaging structures.
 - Permits access and more detailed inspections.
- A835 Conon Br
 - Long term subsidence at north end.
 - Road patched as an interim measure.
 - Ground investigation boreholes to be commissioned in 2019/20.

Under Community Services Capital Budget the Strathconon Bridge was repaired as part of a Strategic Timber Transport Scheme. During the refurbishment works a temporary Bailey Bridge was erected to maintain access.

5.6 2019/20 Bridge Maintenance Programme

Following the 2018/19 General and Principal Inspection Programmes a master list of all defects is currently being compiled.

The master list will be used to identify works by similar type or by location to enable efficient repairs to be undertaken by the DLO. Each defect recorded is costed and prioritised to ensure effective works are undertaken. Outstanding or deferred works can also be tracked to ensure a comprehensive works programme for future years.

6. Implications

- 6.1 Resource – No implications.
- 6.2 Legal - Under the Roads (Scotland) Act 1984 there is a duty to inspect and maintain bridges and other structures associated with roads.
- 6.3 Community (Equality, Poverty and Rural) – No implications.
- 6.4 Climate Change / Carbon Clever – No implications.
- 6.5 Risk – No implications.
- 6.6 Gaelic – No implications.

Designation: Director of Community Services

Date: 17 April 2019

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**2018/19 Area Structures Progress Report
Completed General Inspections**

Structure Ref	Name	Status	Date	Comments
A08320240	ANANCAUN	Complete	03-Sep-18	
A08340010	WHITE	Complete	17-Jul-18	
A08340020	MILLNAIN	Complete	12-Jun-18	
A08620120	BLACKBURN (TOMICH)	Complete	28-Jun-18	
A08960050	LOHCARRON	Complete		
B80210039	SAND	Complete	24-Sep-18	
B80570030	NAAST TWO	Complete	15-Jun-18	
B91630010	CULLICUDDEN	Complete	24-Sep-18	
B91630020	NEWHALL	Replaced	2018	GI deferred
C10430020	ALLT NA CRICHE	Complete	06-Jul-18	
C10430100	ALLT GLEANN MEINICH	Complete	10-Jan-19	
C10470010	ALLT LIATHDOIRE	Complete	06-Feb-19	
C10470040	ALLT A RUISTEAL	Complete	06-Feb-19	
C10470049	BADENSCALLIE	Complete	06-Feb-19	
C10790010	AULTBEA	Complete	22-Feb-19	
C10870020	RUSSEL	Complete	11-Feb-19	
C10910030	CUAIG	Complete	11-Feb-19	
C10910040	ALLT NA EIRIGH	Complete	11-Feb-19	
C10910050	KALNAKILL	Complete	11-Feb-19	
U19070010	DUBLIN	Deferred	n/a	Deferred for PI in 2019
U25110020	NEWMILLS	Complete	18-Jan-19	
U33900010	ACHVRAIE	Complete	06-Feb-19	
A08320289	SLATTADALE	Complete	12-Sep-18	
A08320330	POOLEWE	Complete	05-Jul-18	
A08320330C29	TOURNAIG	Complete	12-Sep-18	
A08320350	LITTLE GRUINARD	Complete	12-Sep-18	
A08320360	INVERIANVIE	Complete	08-Feb-19	
A08320390	ALLT AIRDEASAI DH	Complete	22-Feb-19	
A08320420	CORRYHALLIE	Complete	22-Feb-19	
A08320430	FAIN	Complete	22-Feb-19	
A08320440	ALLT LEACACH	Complete	24-Jan-19	
A08320450	CUILEIG	Complete	22-Feb-19	
A08320460	BRAEMORE	Complete	24-Jan-19	

A08350229	STRATHCANAIIRD	Complete	21-Feb-19	
A08900040	AVALANCHE SHELTER	Complete	08-Mar-19	
A08900070	ACHINTEE	Complete	06-Mar-19	
A08900129	ALLT CHRUBAIDH	Complete	22-Jan-19	
A08960020	TULLICH SMITHY	Complete	06-Mar-19	
A08960120	ALLT COIRE ROILL	Complete	28-Jan-19	
A08960139	COIRE DUBH	Complete	28-Jan-19	
B80210010	GAIRLOCH	Complete	08-Feb-19	
B80560020	BADACHRO	Complete	22-Feb-19	
B80560040	SOUTH ERRADALE	Complete	08-Feb-19	
B80570010	BOOR	Complete	08-Feb-19	
B91610010	LITTMILL	Complete	14-Jan-19	
C10030039	INVERPOLLY BAILEY	Complete	06-Feb-19	
C10310010	KILLEN	Complete	19-Jan-19	
C10430080	MILTOWN	Complete	16-Jan-19	
C10470030	RIVER GARVIE	Complete	06-Feb-19	
C10910009	CEANN LOCHA	Complete	28-Jan-19	
U19870010	DALREOICH	Complete	21-Jan-19	
U25480010	HENRIETTA	Complete	19-Jan-19	
U31120009	CONTIN MILL	Complete	21-Jan-19	
U33870010	REIFF	Complete	06-Feb-19	
U36860010	TOLLIE	Complete	08-Feb-19	
U37160010	ACHINTRAID	Complete	06-Mar-19	
U37580010	INVERALLIGIN	Complete	28-Jan-19	
U42420010	INVERGORDON SMELTER RAILWAY	Complete	19-Sep-18	
U31180010	LUICHAART POWER STATION	Complete	22-Oct-18	
C10550049	ARDINDREAN	Complete	31-Jul-18	
C10550039	ALLT NA CRICHE	Complete	31-Jul-18	
C10550019	ALLT CORRACH	Complete	03-Aug-18	
C10120020	SCOTSBURN	Complete	10-Sep-18	
B91760040	DALNEICH	Complete	18-Sep-18	
A08960110	BALGY	Complete	12-Jul-18	
A08900159	LEDGOWAN LODGE NEW	Complete	05-Jul-18	
A08900050	ATTADALE	Complete	06-Mar-19	
A08350239	DRUMRUNIE	Complete	29-Nov-18	
A08320280	TALLADALE	Complete	05-Jul-18	

**2018/19 Area Structures Progress Report
Completed Principal Inspections**

Bridge Code	Bridge Name
A08320060	MOY
A08340010	WHITE
A08340020	MILLNAIN
A08620120	BLACKBURN (TOMICH)
A08620140	BALAVIL RAILWAY
A08620160	MARYBURGH RAILWAY
A08620180	PEFFERY
B08170020	SGITHEACH
B08170030	ALLT GRAAD (CULCAIRN)
B80570050	FIREMORE
B80570040	MIDTOWN
B80570030	NAAST 2
C10550009	INVERBROOM
C10670010	BRIE
U30060020	AULTGOWRIE
U30060030	ORRIN
F00000270	MARYBURGH RAILWAY FOOTBRIDGE
C10870030	AN UILLT BHIG
B80560010	KERRY
U46520000R60	FEDDON HILL
U31310010	GARVE BAILEY
C10910070	APPLECROSS
B08170051	AVERON FOOTBRIDGE
C10430070	BRIDGEND
U42420010	INVERGORDON SMELTER RAILWAY
U31180010	LUICHAFT POWER STATION
C10550049	ARDINDREAN
C10550039	ALLT NA CRICHE
C10550019	ALLT CORRACH
C10550059	ALLT MOR AIRD DROIGHINN
C10120020	SCOTSBURN
B91760040	DALNEIGH
A08960110	BALGY
A08900159	LEDGOWAN LODGE NEW
A08900050	ATTADALE
A08350239	DRUMRUNIE
A08320280	TALLADALE
A08620129	MUIR OF ORD RAILWAY
A08320330	POOLEWE
U44440010	ROBERTS