| Agenda<br>Item | 9         |
|----------------|-----------|
| Report<br>No   | CIA/30/20 |

#### HIGHLAND COUNCIL

Committee: City of Inverness Area

Date: 19 November 2020

Report Title: Area Structures Report 2019/20

Report By: Executive Chief Officer Infrastructure and Environment

## **Purpose/Executive Summary**

- 1.1 This report provides an Area update on the inspection regime and the work undertaken as part of the Structures Programme for the 2019/20 financial year.
- 1.2 The Report also provides an update on the Infirmary Bridge. A Members briefing will be held in the near future to provide further details on this issue.

#### 2 Recommendations

- 2.1 Members are asked to:
  - 1. Note the general contents of the Structures Report; and
  - 2. Note the recent deterioration of the infirmary Bridge and the implications of the deterioration and consequential maintenance work urgently required

#### 3. Implications

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- 3.1 Resource The total backlog of work is currently unknown, but the rolling programme will be added to annually as inspections are completed.
  - In respect of the urgent works identified in relation to the Infirmary Bridge as advised in section 11, a plan is currently been worked upon as advised in this report to secure funding for the necessary repairs.
- 3.2 Legal The Council has a duty to maintain structures to a reasonable standard and to manage risk effectively.

- 3.3 Community (Equality, Poverty, Rural and Island) Due to the geographic nature of Highland, many structures are located in remote areas where failure may result in communities being cut off or having to travel significant distances via alternative routes.
- 3.4 Climate Change / Carbon Clever There are no known Climate Change / Carbon Clever, implications arising as a direct result of this report. Although improving road structures is unlikely to have a significant effect on carbon emissions, keeping the road network in a condition which allows the free flow of traffic will assist in reducing them.
- 3.5 Risk Although not specifically mentioned in CR10 Condition of our Roads, structures are a vital part of the road network and require active management.
- 3.6 Gaelic There are no known Gaelic implications arising as a direct result of this report.

#### 4 Structures Assets

- 4.1 This report applies only to structures which are considered to be part of the adopted road network under the Roads (Scotland) Act 1984 and are the responsibility of the Council. It does not include structures that are the responsibility of other Council Services or those owned by other parties which are part of the adopted road network.
- 4.2 The term 'road structure' is used to describe bridges, culverts, retaining walls and cattle grids. A breakdown of Council owned/maintained road structure numbers per Inverness Area is shown in **Table 1** below (as at 20/08/20). It is important to note that footbridges which are part of the adopted road are also included.

Table 1: Adopted Road Structures Inverness Area

| Area      | Bridges     | Bridges      | Minor    | Retaining | Cattle |
|-----------|-------------|--------------|----------|-----------|--------|
|           | (5.0m plus) | (under 5.0m) | Culverts | Walls     | Grids  |
| Inverness | 112         | 131          | 79       | 160       | 44     |

#### 5 Finance

- 5.1 A decision was made for 2017/18 to remove the costs for Principal Inspections (PIs) from Area revenue budgets. This removes the annual fluctuation in the Bridges Structural Maintenance budget for each Area which was dependent on the number of Principal Inspections that required to be completed.
- 5.2 The replacement and maintenance of structures is funded from either Capital or Revenue budgets. As would be expected, Area revenue budgets (Bridges Structural Maintenance) are used to effect relatively small repairs, maintenance or minor replacements, in comparison to Capital works. **Table 2** below shows the revenue budget and actual spend figures for the Area.

**Table 2: Inverness Area Budget Figures** 

| For 2019/20                    | Budget  | Actual Spend | %age of Budget |
|--------------------------------|---------|--------------|----------------|
| Bridges Structural Maintenance | £64,000 | £50,000      | 78             |

### 6 Structures Inspection Programme

- 6.1 There are several types of inspections undertaken on structures. These include General and Principal Inspections (GIs and PIs). Currently, PIs are undertaken by the Structures Section of the Project Design Unit on bridges with an overall length of 5m or more. PIs are a more detailed inspection, compared to a GI. The Area Structures Technicians, along with other Area staff when necessary, will undertake the majority of GIs. Some GIs on the larger structures (20m length or more) will be completed by the Structures Section. The Area Structures Technicians will assist the Structures Section in completing inspections whenever possible.
- 6.2 Members approved the 'Structures Inspections' policy at EDI committee in August 2019 to move towards a risk-based approach to inspections. Inspections are generally undertaken within a calendar, rather than financial, year. This is to allow for programming.

## 7 2019/20 General Inspection Programme Update

7.1 For 2019/20 - 22 bridges were programmed for General Inspections by the area structural technician. All 22 programmed bridges have been inspected representing a 100% a completion rate.

The programme for 20/21 contains 21 inspections.

7.2 There is also a historical backlog of inspections due for a further 122 bridges. 54 of these backlog inspections were completed in 2019/20. This leaves 68 inspections to be carried forward to 2020/21. Eventually all bridges will have an up to date inspection and the numbers in the allocated annual programme will increase, with no backlog, to spread the bridges more evenly over a three-year inspection period.

The bridges inspected in 2019/20 are listed in **Appendix A**.

**Note:** The structural technician also covers inspections for Nairn and Badenoch & Strathspey Council areas.

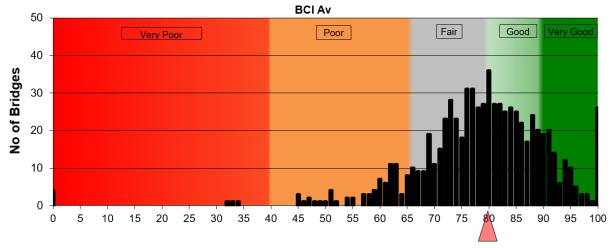
## 8 2019/20 Principal Inspection Programme Update

- 8.1 For 2019/20, 20 bridges were programmed for Principal Inspections. Members are reminded that the PDU Structures Section undertakes these inspections.
- At the end of March 2020, 20 bridges had been inspected. This is a completion rate of 100%. The bridges inspected are listed in **Appendix B**.

#### 9 Bridge Stock Condition

9.1 As inspections are completed, information gathered is used to calculate the Bridge Stock Condition Index (BSCI). Currently, principal inspection results are used as they generate a condition score for each bridge. The 2019/20 Highland BSCI average is 79.0 and BSCI critical is 64.0. The distribution of BCI average values for each bridge which has had a PI are shown in the diagram below.

**Note:** This diagram is for the whole Highland Council area and is to show how the collected data is interpreted into a simple format.



## 10 2019/20 Area Bridge Maintenance Programme

10.1 The following repairs were undertaken in 2019/20:-

#### Convinth Bridge

- Replacement of drainage pipe in road-side verge and through retaining headwall after major water leakage with risk of wall collapse;
- Concrete was laid in areas of scour and undermining beneath concrete foundation aprons; and
- Mortar scrape out and repointing for large areas of masonry arch.

#### **Darris Bridge**

- Concrete was used to replace loss of washed away masonry at base of arch;
- Concrete was laid to repair areas of scour;
- Mortar scrape out and repointing to parapet walls and masonry arch; and
- Removal of vegetation on parapet and spandrel walls.

#### Findhorn 2 Bridge

 Concrete repairs at both ends of structure. There was water ingress to side of concrete watercourse pipe that was washing out surrounding material with possibility of embankment collapse.

#### Cantray Bridge

 Cleaning of carriageway edges, clearance of vegetation from masonry and pillar repairs to internal safety barriers after vehicle strike.

#### Chapel Bridge

 Clearance of vegetation and detritus build up to concrete verge/footpath areas and minor parapet repairs.

#### **Torness Bridge**

Clearance of vegetation and detritus build up to concrete verge/footpath areas.

## Nairnside Bridge

- Clearance of vegetation and debris from footpaths and central bridge pier.
   Erchite Cattlegrid
- Clean out of soil and vegetation from sump and repairs to concrete and steelwork.

## Clachnaharry Seawall

 Major repairs along sections of wall with rebuild including block work reinforcing core and masonry reface, reseating of masonry and mortar replacement.

**Note:** Other works were planned, quoted and agreed with contractors for March 2020 but were stopped due to Coronavirus lockdown. Works will commence and be completed under the 20/21 budget.

10.2 Under the Roads and Transport Capital Budget, Elrig Bridge at East Croachy was replaced with a Mabey quick bridge as part of a Strategic Timber Transport Scheme. A visual inspection of the bridge following a parapet railing vehicle strike revealed major structural failure of original concrete beams. This inspection by the structural technician has led to further inspections throughout the Highland Council area where similar bridges have been identified for future works and ongoing monitoring.

### 11 Infirmary Bridge

#### 11.1 Background

Infirmary Bridge is a suspension footbridge located in the City of Inverness, crossing the River Ness between Ness Walk and Ness Bank. It has a span of 83 metres and consists of a wrought iron truss supported by steel hangers and steel cables. Each pier comprises of two wrought iron latticework towers. The deck of the bridge is timber with non-slip surfacing. The bridge was built in 1876 and is a Category B Listed Structure in the Inverness Riverside Conservation Area. Substantial repairs were undertaken in 1977 and 1994.

#### 11.2 Required Works

Members are asked to be aware of the deterioration of the bridge and the likely costs of works to ensure its continued use. Currently no capital budget is allocated to this asset. Recent deterioration of the bridge timber decking has focused the urgent requirement to carry out minimum repairs of up to £550k to the bridge. Failure to carry out these repairs could result in the closure of the bridge in the near future on the grounds of health and safety. The rate of deterioration of the bridge is being closely monitored and further inspections will continue to be undertaken which will inform any decision on the timing of the closure.

#### Minimum Required Repairs:-

- Replace timber deck and timber cross bracing;
- Improve drainage;
- Replace all loose/sheared connections;
- Steel plating to strengthen connections and areas of corrosion; and
- Partially repaint the bridge to prevent further corrosion

- 11.3 A plan is currently being developed to secure funding for the necessary repairs as the resources required are in excess of the Area Bridge Maintenance Budget of £64,000. There are a number of potential funding sources which have been identified, including:
  - An allocation from the recently allocated Roads Investment Fund, which will be considered by ECI Committee in February and the CIA Committee in February.
  - Efforts to secure partial match funding from external sources such as Historic Environment Scotland, Sustrans or Scottish Government.
  - For the longer term repairs, consideration within the long list of projects to be included within the Council's Capital Programme review process.

Clearly there are pressures on all funding sources at this time with many competing projects and prioritising repairs to this bridge will be challenging.

11.4 A Members briefing will be held in the near future to provide a further updated on this issue.

Designation: Executive Chief Officer Infrastructure and Environment

Date: 9 November 2020

Author: John Taylor, Road Operations Manager – Inverness

Tracey Urry, Head of Roads and Transport

Background Papers: TEC 77/13 Cattle and Deer Grids Policy

COM 58/15 Bridges and Road Structures EDI 23/17 Road Structures Annual Report EDI 81/18 Road Structures Annual Report

EDI 61/19 Risk Based Approach to Structures Inspections

EDI 83/19 Road Structures Annual Report

# 2019/20 General Inspection Programme/Backlog - Inverness

| (Undertaken by Structures Section)           A08310100         COMAR           A08620090         LOVAT           A80820020         HOLM MILLS           B08510030         ABERARDER           C11060010         BLACK BRIDGE KILMORACK           U11890010         CANTRAY           U11777010         LOWER FOYERS           (Undertaken by Area Structural Technician)           B08610020C04         Slackbuie Burn           U11240010         Screton burn           U50430010         Milton of Leys Underpass           U50430010         Mill Burn           U47030010         Mill Burn           U4703011         Mid Coul Culvert           C10440011         Lochardil Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C25         General Booth Road           C11180000C26         General Booth Road           U11440020         Milton of Culloden           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540002C19  | Structure Ref        | Name                     |
|--|----------------------|--------------------------|
| A08620090         LOVAT           A80820020         HOLM MILLS           B08510030         ABERARDER           C11060010         BLACK BRIDGE KILMORACK           U11690010         CANTRAY           U117770010         LOWER FOYERS           (Undertaken by Area Structural Technician)         B08610020C04           Slackbuie Burn         U11240010           U50430010         Milton of Leys Underpass           U50430010C01         Mill Burn           U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U1144020         Milton of Culloden           A0862006C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A0862010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540000C79         Unnamed           U27860000C95         Invereen <td>(Undertaken by Struc</td> <td></td>   | (Undertaken by Struc |                          |
| A80820020         HOLM MILLS           B08510030         ABERARDER           C11060010         BLACK BRIDGE KILMORACK           U11690010         CANTRAY           U11770010         LOWER FOYERS           (Undertaken by Area Structural Technician)         B08610020C04           B08610020C04         Slackbuie Burn           U11240010         Screton burn           U50430010C01         Mill Burn           U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A0862006C76         Unnamed (Lentran)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540000C79         Unnamed           U27860000C95         Invereen           C1080030         Allt Na Goire 2  | A08310100            | COMAR                    |
| B08510030   ABERARDER  | A08620090            | LOVAT                    |
| C11060010         BLACK BRIDGE KILMORACK           U11690010         CANTRAY           U11770010         LOWER FOYERS           (Undertaken by Area Structural Technician)         B08610020C04           B08610020C04         Slackbuie Burn           U11240010         Screton burn           U50430010         Millon of Leys Underpass           U50430010C01         Mill Burn           U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U12330010         Dalroy           U41020010         Allr Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A08620060C76         Unnamed (Lentran)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540000C79         Unnamed           U27860000C95         Invereen           C1080030         Allt Na Goire 2           B08510030C23         Blarachar  | A80820020            | HOLM MILLS               |
| U11690010  | B08510030            | ABERARDER                |
| U11770010 LOWER FOYERS (Undertaken by Area Structural Technician) B08610020C04 Slackbuie Burn U11240010 Screton burn U50430010 Milton of Leys Underpass U50430010C01 Mill Burn U47030010 Mill Burn C101770011 Mid Coul Culvert C10440011 Lochardil Burn U14720000C09 Druid Burn U12330010 Dalroy U41020010 Allt Na Skiach C1017020C64 Airport Runway Ditch C11180000C45 General Booth Road C11180000C22 General Booth Road U11440020 Milton of Culloden A08620060C76 Unnamed (Lentran) A08620040 Kirkton C10880010 Clava A08620110 Bridgend B91540030 Meallmore B91540020C19 Unnamed U28480010 Moy B91540000C79 Unnamed U27860000C95 Invereen C10800030 Allt Na Goire 2 B08510030C23 Blarachar   | C11060010            | BLACK BRIDGE KILMORACK   |
| Content   Cont | U11690010            | CANTRAY                  |
| B08610020C04         Slackbuie Burn           U11240010         Screton burn           U50430010         Milton of Leys Underpass           U50430010C01         Mill Burn           U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U14720000C09         Druid Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A0862060C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540020C19         Unnamed           U28480010         Moy           B91540000C79         Unnamed           U27860000C95         Invereen           C1080030         Allt Na Goire 2           B08510030C23         Blarachar  | U11770010            | LOWER FOYERS             |
| U11240010         Screton burn           U50430010         Milton of Leys Underpass           U50430010C01         Mill Burn           U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U14720000C09         Druid Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A08620060C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540000C19         Unnamed           U28480010         Moy           B91540000C95         Invereen           C10800030         Allt Na Goire 2           B08510030C23         Blarachar   | (Undertaken by Area  | Structural Technician)   |
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| U50430010C01         Mill Burn           U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U14720000C09         Druid Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A08620060C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540000C19         Unnamed           U28480010         Moy           B91540000C79         Unnamed           U27860000C95         Invereen           C10800030         Allt Na Goire 2           B08510030C23         Blarachar  | U11240010            | Screton burn             |
| U47030010         Mill Burn           C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U14720000C09         Druid Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A08620060C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540000C19         Unnamed           U28480010         Moy           B91540000C79         Unnamed           U27860000C95         Invereen           C10800030         Allt Na Goire 2           B08510030C23         Blarachar   | U50430010            | Milton of Leys Underpass |
| C10170011         Mid Coul Culvert           C10440011         Lochardil Burn           U14720000C09         Druid Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A08620060C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540020C19         Unnamed           U28480010         Moy           B91540000C79         Unnamed           U27860000C95         Invereen           C10800030         Allt Na Goire 2           B08510030C23         Blarachar   | U50430010C01         | Mill Burn                |
| C10440011         Lochardil Burn           U14720000C09         Druid Burn           U12330010         Dalroy           U41020010         Allt Na Skiach           C1017020C64         Airport Runway Ditch           C11180000C45         General Booth Road           C11180000C22         General Booth Road           U11440020         Milton of Culloden           A08620060C76         Unnamed (Lentran)           A08620030C33         Unnamed (Bunchrew)           A08620040         Kirkton           C10880010         Clava           A08620110         Bridgend           B91540030         Meallmore           B91540020C19         Unnamed           U28480010         Moy           B91540000C79         Unnamed           U27860000C95         Invereen           C10800030         Allt Na Goire 2           B08510030C23         Blarachar  | U47030010            | Mill Burn                |
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| U11440020       Milton of Culloden         A08620060C76       Unnamed (Lentran)         A08620030C33       Unnamed (Bunchrew)         A08620040       Kirkton         C10880010       Clava         A08620110       Bridgend         B91540030       Meallmore         B91540020C19       Unnamed         U28480010       Moy         B91540000C79       Unnamed         U27860000C95       Invereen         C10800030       Allt Na Goire 2         B08510030C23       Blarachar  | C11180000C45         | General Booth Road       |
| A08620060C76 Unnamed (Lentran)  A08620030C33 Unnamed (Bunchrew)  A08620040 Kirkton  C10880010 Clava  A08620110 Bridgend  B91540030 Meallmore  B91540020C19 Unnamed  U28480010 Moy  B91540000C79 Unnamed  U27860000C95 Invereen  C10800030 Allt Na Goire 2  B08510030C23 Blarachar  | C11180000C22         | General Booth Road       |
| A08620030C33       Unnamed (Bunchrew)         A08620040       Kirkton         C10880010       Clava         A08620110       Bridgend         B91540030       Meallmore         B91540020C19       Unnamed         U28480010       Moy         B91540000C79       Unnamed         U27860000C95       Invereen         C10800030       Allt Na Goire 2         B08510030C23       Blarachar  | U11440020            | Milton of Culloden       |
| A08620040       Kirkton         C10880010       Clava         A08620110       Bridgend         B91540030       Meallmore         B91540020C19       Unnamed         U28480010       Moy         B91540000C79       Unnamed         U27860000C95       Invereen         C10800030       Allt Na Goire 2         B08510030C23       Blarachar  | A08620060C76         | Unnamed (Lentran)        |
| C10880010       Clava         A08620110       Bridgend         B91540030       Meallmore         B91540020C19       Unnamed         U28480010       Moy         B91540000C79       Unnamed         U27860000C95       Invereen         C10800030       Allt Na Goire 2         B08510030C23       Blarachar  | A08620030C33         | Unnamed (Bunchrew)       |
| A08620110       Bridgend         B91540030       Meallmore         B91540020C19       Unnamed         U28480010       Moy         B91540000C79       Unnamed         U27860000C95       Invereen         C10800030       Allt Na Goire 2         B08510030C23       Blarachar  | A08620040            | Kirkton                  |
| B91540030 Meallmore  B91540020C19 Unnamed  U28480010 Moy  B91540000C79 Unnamed  U27860000C95 Invereen  C10800030 Allt Na Goire 2  B08510030C23 Blarachar   | C10880010            | Clava                    |
| B91540020C19 Unnamed U28480010 Moy B91540000C79 Unnamed U27860000C95 Invereen C10800030 Allt Na Goire 2 B08510030C23 Blarachar   | A08620110            | Bridgend                 |
| U28480010       Moy         B91540000C79       Unnamed         U27860000C95       Invereen         C10800030       Allt Na Goire 2         B08510030C23       Blarachar  | B91540030            | Meallmore                |
| B91540000C79 Unnamed U27860000C95 Invereen C10800030 Allt Na Goire 2 B08510030C23 Blarachar  | B91540020C19         | Unnamed                  |
| U27860000C95         Invereen           C10800030         Allt Na Goire 2           B08510030C23         Blarachar   | U28480010            | Moy                      |
| C10800030 Allt Na Goire 2 B08510030C23 Blarachar   | B91540000C79         | Unnamed                  |
| B08510030C23 Blarachar   | U27860000C95         | Invereen                 |
|  | C10800030            | Allt Na Goire 2          |
| B08510030C36 Milton of Aberarder   | B08510030C23         | Blarachar                |
|  | B08510030C36         | Milton of Aberarder      |

| U27860010C95 | Ruthven Farm            |
|--------------|-------------------------|
| U10840000C16 | Darris                  |
| U10040000C40 | Balnagarline            |
| B08620069    | Holm Burn               |
| F00000360    | Raigmore Footbridge     |
| U11400009    | Braenock                |
| U10920010    | Loch Mhor               |
| B08520000C73 | Boleskin House          |
| B08520000C72 | Boleskin Graveyard      |
| U40230020    | Mill Burn               |
| A80820010    | Mill Burn               |
| A80820010C06 | Park Burn               |
| A80820030    | Queens Park Underpass 1 |
| U44100010    | Mill Burn               |
| U46840010    | Mill Burn               |
| B90390040    | Treeton                 |
| B08620020    | Reidhean                |
| U16630000C27 | Jenkins Park            |
| U16630019    | Allt na Fearna          |
| U16710000C34 | Balantoul               |
| U16710000C27 | Bunoich                 |
| U16630000C02 | Balantoul               |
| U12210010    | Gourag                  |
| U11160000C42 | Farr                    |
| U11160010    | Allt Beag               |
| U28290050    | Inverbrough             |
| B08510069    | Whitemill New           |
| U16440010    | Dalriach                |
| A08330040    | Dalnamein               |
| A80820010C30 | Allt Na Skiach          |
| B90060020C32 | Easter Muckovie         |
| U16590030    | Tomcrasky               |
| U16590020    | Balnacarn               |
| U16590010    | Balintombie             |
| U28560040    | Findhorn                |
| U28560030    | Findhorn Flood Relief   |
| U28290080    | Findhorn 2              |
| U28560020    | Allt Cosach             |
| U10920020    | Aberchalder             |

| U16670010 | Ardachy (Tarff) |
|-----------|-----------------|
| C10760020 | Dunlichity      |
| C10680010 | Bunachton       |
| U11160030 | Kyllachy Burn   |
| U11120010 | Elrig           |
| A08310170 | Erchless        |
| A08310050 | Balnain Smithy  |
| A08310060 | Kilmartin House |
| A08310070 | Kilmartin Farm  |
| A08310080 | Millness East   |

# **APPENDIX B**

# 2019/20 Principal Inspection Programme - Inverness

| Structure Ref | Name              |
|---------------|-------------------|
| A08620060     | LENTRAN           |
| B08510010     | DUNMAGLASS LODGE  |
| B08530010     | CULCABOCK ROAD    |
| C10170020     | AIRPORT RAILWAY   |
| C10360010     | CULLODEN RAILWAY  |
| C10400010     | TORBRECK ROAD     |
| C10720020     | BELLADRUM         |
| C10800020     | ALLT NA GOIRE     |
| C11100010     | FASNAKYLE         |
| C11120040     | BLAR NA GAMHNA    |
| C11120050     | COIRE BEITHE      |
| C11120070     | ALLT NA H IMRICH  |
| U10960009     | ALLT MOR          |
| U14230010     | ALLT CURRACHAN    |
| U15680010     | REELIG            |
| U27860010     | RUTHVEN           |
| U28560010     | RAIGBEG RAILWAY   |
| U46200010     | WATERLOO          |
| U46840010     | MILL BURN         |
| U47140010     | INSHES FOOTBRIDGE |