

## NORTH SOMERSET COUNCIL STRUCTURES SCHEMES 2020 – 2021

| Project information  |  |                         |              |
|--|--|-------------------------|--------------|
| <b>Project Title</b>   | Seavale Road Retaining Wall – Masonry Repairs 2020 |                         |              |
| <b>Structure Ref.</b>  | 47W084   |                         |              |
| <b>Location</b>  | 340329, 171624                                     | <b>Nearest Postcode</b> | BS21 7QB     |
| <b>NSC Supervisor</b>  | Chandan Bhumpelly                                  | <b>Contact Number</b>   | 01275 888293 |
| Description of the Works   |  |                         |              |
| <p>These works comprise the supply of all labour, materials and supervision to carry out masonry repairs to Seavale Road Retaining Wall. The tasks required as part of this maintenance programme are laid out in the works specification below and are detailed on drawing number 47W084/NSC/C/2020/101. For ease of reference the area of the retaining wall requiring repair has been split into 3 Sections. See enclosed drawing for details of sections.</p> <p><b>Works Specification:</b></p> <ol style="list-style-type: none"> <li>Set up suitable work area and site compound including installation of traffic management. Contractor to provide no parking cones and signs and any barriers required around the work site.</li> <li>Dismantle and reconstruct coping along full length of section 1 along with top 1-2 courses, where loose, and re-bed any other loose or missing masonry units in section 1.               <ol style="list-style-type: none"> <li>Carefully dismantle coping and loose stones in top 1-2 courses in short sections at a time</li> <li>Remove any other loose masonry in wall for section being repaired.</li> <li>Clean all stones for reuse, removing all existing mortar.</li> <li>Clean all exposed joints removing all existing mortar, vegetation growth and any other loose material.</li> <li>Re-bed stones removed/missing using existing stone on site, where existing stone is not sufficient use new stones to match existing</li> <li>Rebuild top courses and coping stones where removed</li> <li>Repeat steps a to f for short section along the wall until full length is complete</li> </ol> </li> <li>Re-point masonry for full extent of wall section 1               <ol style="list-style-type: none"> <li>Remove vegetation roots from joints and rake out defective mortar to a minimum depth of 1.2 times the joint width or 20mm whichever is greater until clear of dust and loose particles, ensuring all vegetation growth and roots are removed.</li> <li>Remove all deposits and lichen/moss from the surfaces to be repointed.</li> <li>Carefully re-point raked out areas or mortar ensuring no voids are present</li> </ol> </li> <li>Reconstruct top 2-3 courses of stonework (depending upon condition) for the full length of section 2.               <ol style="list-style-type: none"> <li>Carefully dismantle top 2-3 courses for short lengths at a time.</li> <li>Clean all stones for reuse, removing all existing mortar.</li> <li>Clean all exposed joints removing all existing mortar, vegetation growth and any other loose material.</li> <li>Rebuild top courses.</li> <li>Repeat steps a to d for short section along the wall until full length is complete</li> </ol> </li> <li>Carry out masonry repairs to area of loose displaced masonry at east end of wall section 2 caused by growth of tree directly behind wall.               <ol style="list-style-type: none"> <li>Remove loose masonry units along the edge of discontinuity.</li> <li>Clean all stones for reuse, removing all existing mortar.</li> <li>Clean all exposed joints removing all existing mortar, vegetation growth and any other loose material.</li> <li>Re-bed removed stones, stitching discontinuity in wall.</li> </ol> </li> <li>Re-point masonry for full extent of wall section 2               <ol style="list-style-type: none"> <li>Rake out defective mortar to a minimum depth of 1.2 times the joint width or 20mm whichever is greater until clear of dust and loose particles, ensuring all vegetation</li> </ol> </li> </ol> |  |                         |              |

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- growth and roots are removed
- b. Remove all deposits and lichen/moss from the surfaces to be repointed.
  - c. Carefully re-point raked out areas or mortar ensuring no voids are present
7. Once repairs have been completed along section 2 lay a mortar haunch in place of coping along the top of the wall for the full length of section 2.
8. Masonry repairs at joint between two different constructions in wall section 3 (see view 4 in attached drawing) - reconstruct top 2-3 course and re-point lost/failed mortar over length of failure (max 1m). Wall height 1.7m.
- a. Deconstruct top 2-3 courses over length of failure (max 1m)
  - b. Clean all stones for reuse and all exposed joints, removing all existing mortar, vegetation growth and any other loose material.
  - c. Rebuild top courses
  - d. Rake out defective mortar to a minimum depth of 1.2 times the joint width or 20mm whichever is greater until clear of dust and loose particles, ensuring all vegetation growth and root are removed.
  - e. Remove all deposits and lichen/moss from the surfaces to be repointed.
  - f. Carefully re-point raked out areas or mortar ensuring no voids are present
9. Repoint full height crack towards west end of wall section 3.
- a. Rake out defective mortar to a minimum depth of 1.2 times the joint width or 20mm whichever is greater until clear of dust and loose particles
  - b. Remove all deposits and lichen/moss from the surfaces to be repointed.
  - c. Carefully repoint raked out areas or mortar ensuring no voids are present
10. All newly built or repointed masonry to be protected from rain and frost.
11. Remove traffic management and de-mobilise site compound.

### **Materials Specification:**

- Existing stone should be reused for the repair of the wall where possible. If additional stone to that on site is required, stone matching the existing should be used. If additional stone is required a sample should be provided to the NSC supervising engineer for approval prior to use.
- Mortar specification to be agreed on site with NSC engineer.

The contractor is responsible of the design, provision and maintenance of all temporary works including scaffolding, working platforms and temporary supports to the retaining wall during works.

### **Site Information**

Location map

### **Site Boundaries**

Extents of retaining wall and areas required on highway for working/storage.

**Contractor to inform NSC Structures of any TM or parking suspensions required for working/storage so the relevant notices can be issued.**

Secure fencing to be provided by the contractor to prevent unauthorised access to the site.

### **Site Specific Risks**

- Working adjacent to live traffic and in the carriageway under traffic management on Seavale Road
- Use of scaffold tower or raised access platform to access upper sections of retaining wall.
- Working at height.
- Falling debris.
- Exposure to hazardous materials.
- Interaction with members of the public

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| Additional Works Information  |  |      |            |
|---|--|------|------------|
| Project Title   | Seavale Road Retaining Wall – Masonry Repairs 2020 |      |            |
| Structure Ref.  | 47W084   |      |            |
| <b><u>Drawings</u></b>  |  |      |            |
| A drawing showing the site layout and images of the works to be completed have been included in the works information.  |  |      |            |
| <b><u>Access to the site</u></b>  |  |      |            |
| Specialist access plant requires a permit application, to be authorised by NSC Streetworks.   |  |      |            |
| Contractor to provide NSC with any details of MEWPs or scaffolding to enable the permit application to be filled in.  |  |      |            |
| Contractor to inform NSC Structures of any road space required in order to undertake the works  |  |      |            |
| Contractor responsible for design and supply of any TM required including no parking signage and cones.   |  |      |            |
| <b><u>Working Hours</u></b>   |  |      |            |
| The hours of operation of the site shall be restricted to 0730 to 1800 hours Monday to Friday and 0800 to 1300 Saturday. No work shall be permitted outside of these hours without the permission of the Project Manager. |  |      |            |
| <b><u>Parking</u></b>   |  |      |            |
| Contractor parking to be within agreed site area or on-street in accordance with parking regulations.   |  |      |            |
| <b><u>Storage of materials, fuels or chemicals</u></b>  |  |      |            |
| The contractor is to make their own arrangements for the storage of materials.  |  |      |            |
| Materials should be stored in a safe manner at a location agreed with the North Somerset Council Structures team.   |  |      |            |
| Materials are not to be stored on the highway without an NSC approved “Application to deposit building materials on the highway” permit. Contractor to confirm if a permit will be required.                              |  |      |            |
| All materials and equipment to be store securely over night.  |  |      |            |
| <b><u>Pollution, Ecological or Environmental Impacts</u></b>  |  |      |            |
| Drip trays and spill kits to be available and used where required.  |  |      |            |
| Measures to be taken to ensure all works, and detritus arising from the works, are removed from site.   |  |      |            |
| <b><u>Access to Information following Completion</u></b>  |  |      |            |
| Any relevant product/contractor guarantees and QA/Materials Site Record sheets to be submitted to the NSC Engineer following completion of the works.   |  |      |            |
| <b><u>Programme</u></b>   |  |      |            |
| Start date and duration to be defined by contractor.  |  |      |            |
| <b><u>Services and Other things provided by NSC</u></b>   |  |      |            |
| NSC Structures to apply for specialist access permits if required (TBC by contractor).  |  |      |            |
| Vegetation clearance to be undertaken by NSC prior to the commencement of works.  |  |      |            |
| <b><u>Submission of documentation to NSC following completion of works</u></b>  |  |      |            |
| Product information, specification and any relevant certification to be sent to NSC (mortar, new stone etc.)  |  |      |            |
| <b><u>Photographs</u></b>   |  |      |            |
| General and defect pictures of the structure included.  |  |      |            |
| <b><u>Historic Drawings</u></b>   |  |      |            |
| None Available  |  |      |            |
| <b><u>Utility Plans</u></b>   |  |      |            |
| N/A   |  |      |            |
| Prepared by   | A. Meilton   | Date | 31/05/2019 |
| Checked by  | C. Bhumpelly                                       | Date | 10/02/2021 |