

NORTH SOMERSET COUNCIL STRUCTURES SCHEMES 2020 – 2021

Project information			
Project Title	Colehouse Lane Bridge – Masonry Repairs 2020		
Structure Ref.	46037		
Location	340702, 169665	Nearest Postcode	BS21 6TQ
NSC Supervisor	Chandan Bhumpelly	Contact Number	01275 888293
Description of the Works			
<p>These works comprise the supply of all labour, materials and supervision to carry out masonry repairs to the abutments and wingwalls of Colehouse Lane Bridge. The tasks required as part of this maintenance programme are laid out in the works specification below and are detailed on drawing number 46037/NSC/C/2020/101.</p> <p>Works Specification:</p> <ol style="list-style-type: none"> 1. Set up suitable work area and site compound. 2. Site clearance 3. Install scaffolding or alternative raised access to enable access to the upper parts of the structure. 4. Remove vegetation growth growing out of wingwalls and abutments. 5. Carry out masonry repairs to south west wingwall and south elevation of west abutment <ol style="list-style-type: none"> a. Re-pointing of cracks at the top of the south elevation of west abutment and south west wingwall and local areas of re-pointing to areas of mortar loss or failure across the rest of the wingwall b. 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. c. Remove all deposits and lichen/moss from the surfaces to be repointed. d. Carefully re-point raked out areas of mortar 6. Carry out masonry repairs to south east wingwall and south elevation of east abutment <ol style="list-style-type: none"> a. Re-pointing of cracks at the top of the south elevation of east abutment and south east wingwall and local areas of re-pointing to areas of mortar loss or failure across the rest of the wingwall. Dismantling and rebuilding of areas of displaced or loose masonry at the top of wingwall. b. Carefully remove loose masonry units and units that have been displaced out of the line of the face of the wall along the top of the wingwall, including coping stones c. Clean all removed stone and exposed joints, removing all existing mortar and vegetation growth. d. Re-bed removed units using matching new stone where required e. Where repointing is required, 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. f. Remove all deposits and lichen/moss from the surfaces to be repointed. g. Carefully re-point raked out areas of mortar 7. Carry out masonry repairs to north east wingwall and north elevation of east abutment <ol style="list-style-type: none"> a. Repointing of cracks at the top of the north elevation of east abutment and north east wingwall and local areas of re-pointing to areas of mortar loss or failure across the rest of the wingwall b. 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. c. Remove all deposits and lichen/moss from the surfaces to be repointed. d. Carefully repoint raked out areas of mortar 8. Carry out masonry repairs to north west wingwall and north elevation of west abutment <ol style="list-style-type: none"> a. Re-pointing of cracks at the top of the north elevation of west abutment and local areas of re-pointing to areas of mortar loss or failure across the north west wingwall. Dismantling and rebuilding of areas of displaced or loose masonry towards the top 			

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- of wingwall.
- b. Carefully remove loose masonry units and units that have been displaced out of the line of the face of the wall along the top of the wingwall, including coping stones.
 - c. Clean all removed stone and exposed joints, removing all existing mortar and vegetation growth.
 - d. Re-bed removed/missing masonry units using matching new stone where required
 - e. Where repointing is required, 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.
 - f. Remove all deposits and lichen/moss from the surfaces to be repointed.
 - g. Carefully re-point raked out areas of mortar
9. Carry out masonry repairs to faces of abutments.
- a. Re-pointing to approx. 1.5m long vertical crack at the centre of the east abutment and local areas of mortar loss and mortar failure across both abutments.
 - b. Rake out defective mortar to a depth of 1.2 times the joint width or 20mm whichever is greater until clear of dust and loose particles.
 - c. Remove all deposits and lichen/moss from the surfaces to be repointed.
 - d. Carefully re-point raked out areas of mortar
10. All newly re-pointed and rebuilt sections of stonework to be protected from rain and frost.
11. Remove scaffolding, clear site and de-mobilise site compound.

Materials Specification:

Masonry Repairs

- Existing stone should be reused for the repair of the wall wingwalls where possible. It is anticipated that sufficient stone is available at the site, however if additional stone is required, dressed stone matching the existing should be used. If new stone is required a sample should be provided to the NSC supervising engineer for approval prior to use.
- Mortar specification to be agreed with NSC supervising engineer on site to match properties of existing mortar.

The contractor is responsible of the design, provision and maintenance of all temporary works including scaffolding and working platforms.

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 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

- Use of scaffold tower or raised access platform to access upper section of wingwalls and arch
- Working at height.
- Falling debris.
- Exposure to hazardous materials.
- Interaction with members of the public
- Risk of sharps or hazardous materials in areas of fly tipping under bridge.

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Additional Works Information			
Project Title	Colehouse Lane Bridge – Masonry Repairs 2020		
Structure Ref.	46037		
<u>Drawings</u>			
A drawing showing the site layout and images of the works to be completed have been included in the works information.			
<u>Access to the site</u>			
Site to be accessed by private track from B3133 to the east. NSC to agree access with land owner. Scaffolding or raised access platform will be required to access the upper sections of the wingwalls and abutments			
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.			
<u>Working Hours</u>			
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.			
<u>Parking</u>			
Contractor parking to be within agreed site area.			
<u>Storage of materials, fuels or chemicals</u>			
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 NSC 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.			
<u>Pollution, Ecological or Environmental Impacts</u>			
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.			
<u>Access to Information following Completion</u>			
Any relevant product/contractor guarantees and QA/Materials Site Record sheets to be submitted to the NSC Engineer following completion of the works.			
<u>Programme</u>			
Start date and duration to be defined by contractor.			
<u>Services and Other things provided by NSC</u>			
NSC Structures to apply for specialist access permits if required (TBC by contractor).			
<u>Submission of documentation to NSC following completion of works</u>			
Product information, specification and any relevant certification to be sent to NSC (stone, mortar etc.).			
<u>Photographs</u>			
General and defect pictures of the structure included.			
<u>Historic Drawings</u>			
N/A			
<u>Utility Plans</u>			
N/A			
Prepared by	A. Meilton	Date	29/07/2020
Checked by	C. Bhumpelly	Date	10/02/2021