



ASKINS AND LITTLE
Stonemasonry • Historic Property Restoration

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Maintenance Delivery Unit
Edgeley 9B, Stockholm Road
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Friday 19th June 2020

Reference: St Bees Signal Box Stonework repairs and Lime pointing

Dear Rachel,

Future to my site visit we would recommend the following repairs to preserve and maintain the stonework and pointing at St Bees signal box.

General Introduction

The Building is Solid wall construction built with locally quarried St Bees Sandstone with a hand tooled stugged finish. All returns have purpose made quoins with random rubble infill between which will have originally been built with Natural lime mortar. This has been over pointed in the past with Cement mortar which ideally would be removed and pointed in lime to allow the walls to breath better and reduce the rate of stone weathering.

The stone is generally in good condition except for isolated weathered stones that need Replaced (these could be faced in Lime based repair mortar as an alternative if needed).

At the same time as re-pointing any loose faces to the stonework faces should be removed (de-scaled) back to a sound surface using a scraper and then brushed to remove any loose. All the cement pointing needs carefully removed by hand, with the joints at least 2x deeper than the width and topped and tailed to give a clean edge. The joints need brushed out then washed down with a hosepipe to remove all dust and dampen well before pointing. The new lime pointing needs protected from drying winds, sunlight etc by dampening if needed and applying hessian protection. Protect also from frosts and rain until fully carbonated. This type of work should always be carried out by skilled time served masons with experience in this type of work for the project to be a success and stand the test of time.

Materials

Stone type to be used.

St Bees Sandstone tooled to match existing

Suggested mortar mix.

2 parts Hanson NHL3.5 Lime
3 Parts Red Plastering sand
2 Parts Cardewmyres Grit Sand

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Scope of Stone repairs

All Elevations and wall to be fully raked out and re-pointed in lime with de-scaling where needed.

Elevation 1.

- Carefully cut out and replace 7 number stones dressed to match existing
- Remove Ivy to allow re-pointing to Stonework
- Make good window sides/remove plant growth

Elevation 2.

- Carefully cut out and replace 1 number stones dressed to match existing
- Try to re-set arch by propping with Acrow jacks and cleaning out joints. Deep pack and point joints with fine finger trowels and allow to set before removing props

Elevation 3.

- Carefully cut out and replace 4 number stones dressed to match existing
- Indent 1 stone dressed to match existing

Elevation 4. (just pointing and de-scaling work)

Wall.

- Cut Existing coping and supply and fit new section of coping including walling stone below.

Generally

- Include a pc sum of for extra repairs
- Take away rubbish to licenced tip from these works and clean site
- Provide Rams as needed to carry out the works safely

The above all in conjunction with the 8 attached highlighted photos

Elevations 1, 2, 3 and 4. (4 photos)

Elevations 1-2 and elevation 3-4 (2 photos)

Wall roadside and wall Signal box side (2 photos)

The above works for

We would need access to Power, water, Welfare, Scaffold access etc in carrying out any works on site which isn't included in the above.

I hope the above is off interest to you and please let me know if you need anything else or have any queries.

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Yours Sincerely

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