



BARTOLOTT CRYPT FLOOR INVESTIGATIONS AND STABILISATION METHOD STATEMENT

Job Ref: C00410.00

Doc Ref: Method Statement for the removal of the marked stone slabs 'Cangatura' to investigate the underlying floor buildup and subsequent localised stabilisation at the Bartolott Crypt, St. John's Co-Cathedral, St. John's Street, Valletta.

Date: 1st April 2024



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Date 1st April 2024.

Client St. John's Foundation

Introduction Throughout the current ongoing works within the Crypt, it has been noticed that several stone slabs 'cangatura' have subsided in localised areas when subjected to normal service loading. In view of this, the following precautionary investigations and works are being proposed:

- 1) Investigative works-** A number of stone slabs 'cangatura' are being proposed to be removed to better understand the underlying bedding material build-up as well as the presence of any suitable bearing substrate such as rock or supporting walls (refer to Phases 01-04).
- 2) Stabilisation works-** Where a suitable bearing substrate is established, a system of consolidation is being proposed through the use of a lime sand mortar or grout or stone 'baxxa' depending upon the required thickness.

Phase 01,02 & 03 **Removal of individually marked stone slabs cangatura and underlying buildup to investigate the potential positions of rock or wall supports.**

In Phase 01(refer to the attached plan), it is being proposed to carefully remove the marked stone slabs 'cangatura' and any underlying buildup using handheld methods to potentially expose the underlying rock/wall substrate. Should no rock/walls be exposed, further stone slabs 'cangatura' will need to be removed as highlighted in Phase 02 and Phase 03. All the removed stone slabs 'cangatura' will be mapped, numbered and stored temporarily on site together with any removed bedding material to be reinstated in their original positions once all investigative and/or stabilisation works are completed.

All works are to be carried out under the supervision of an approved Archaeologist and the responsible Structural Engineer. All findings will be documented by means of

surveys, photographs and notes taken throughout the process.

Phase 04

Removal of an entire row of stone slabs ‘cangatura’ wherever a suitable support such as rock/walls is exposed during Phase 01 or Phase 02 or Phase 03 works

Based upon the findings recorded in Phase 01 or Phase 02 or Phase 03, it is being proposed to carefully remove an entire row of stone slabs ‘cangatura’ using handheld methods to expose the area where a suitable substrate has been exposed in Phase 01, Phase 02 or Phase 03. Once more, all removed stone slabs ‘cangatura’ will be mapped, numbered and stored temporarily on site together with any removed bedding material to be reinstated in their original positions once all investigative and/or stabilisation works are completed.

All works are to be carried out under the supervision of an approved Archaeologist and the responsible Structural Engineer. All findings will be documented by means of surveys, photographs and notes taken throughout the process.

Phase 05

Stabilisation of underlying stone slabs ‘cangatura’ wherever a suitable substrate is exposed in the previous Phases.

It is being proposed to stabilise the stone slabs ‘cangatura’ wherever a suitable substrate such as rock or walls are exposed throughout Phases 01-04. Depending on the thickness required, stabilisation works will consist of inserting a lime sand mortar or grout or a stone ‘baxxa’ in between the underlying rock/wall/arch substrate and the reinstated stone slabs cangatura.

All works will be carried out under the supervision of an approved Archaeologist and the responsible Structural Engineer.

Perit Konrad Buhagiar

Existing Photos

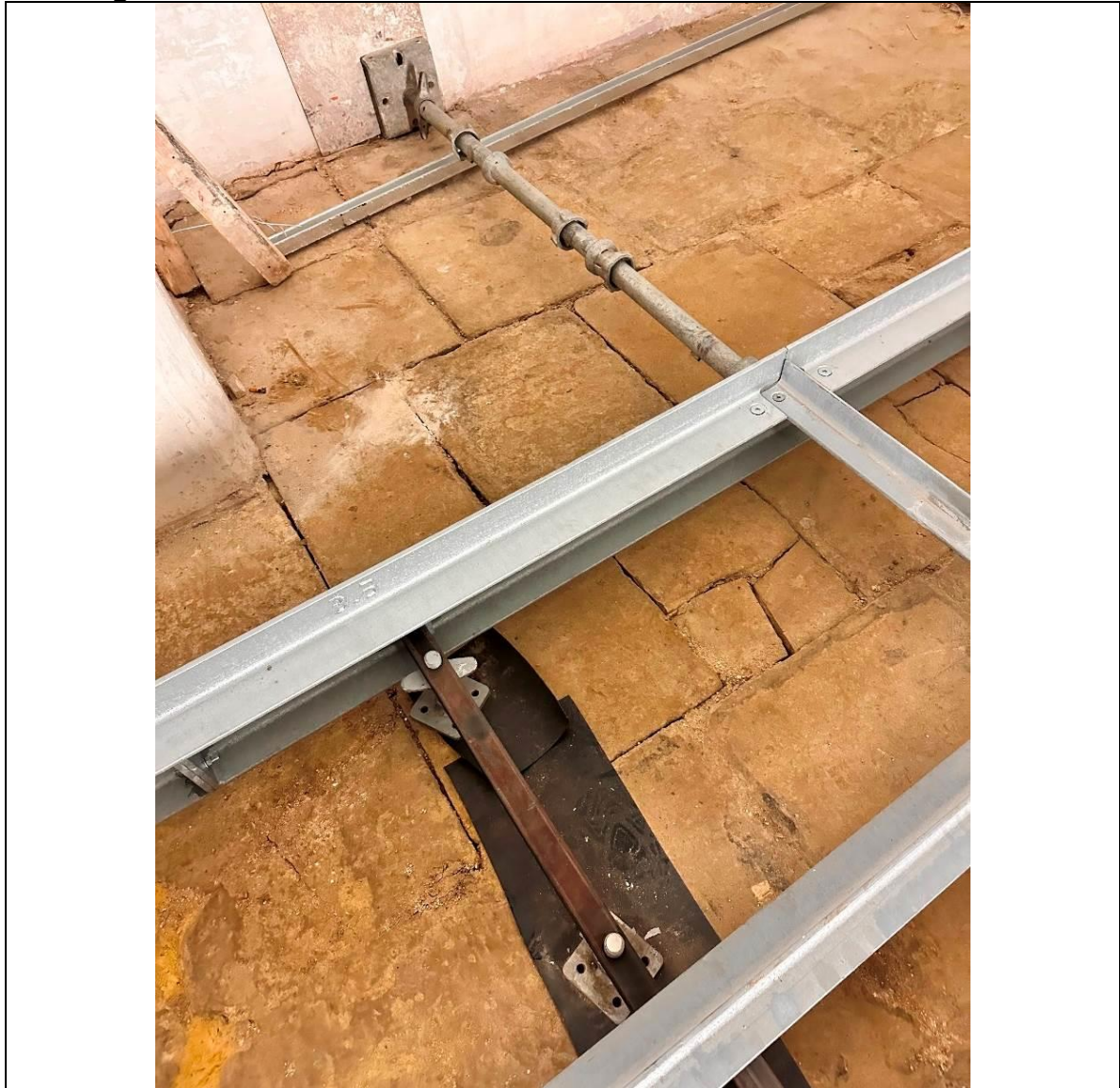


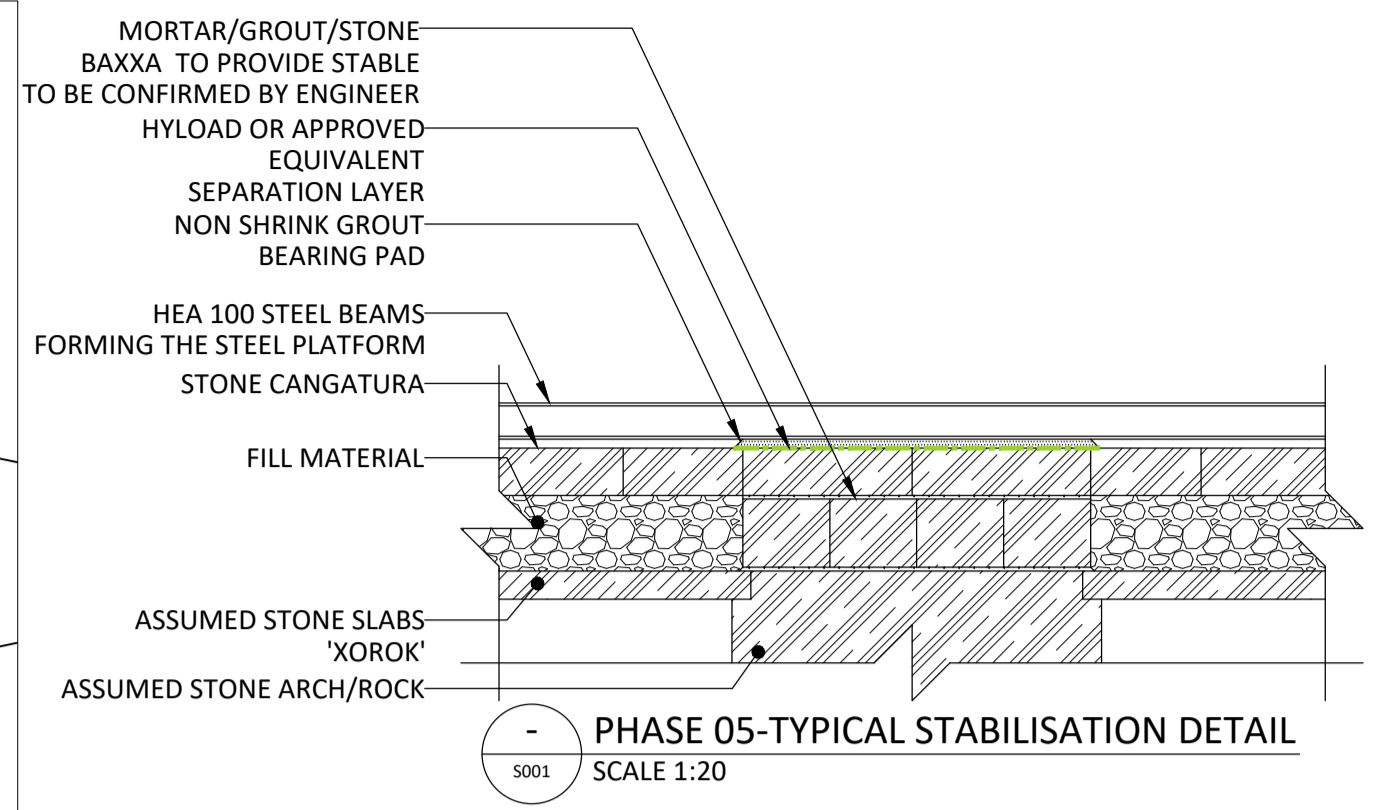
Photo 01-Localised Area with subsided floor



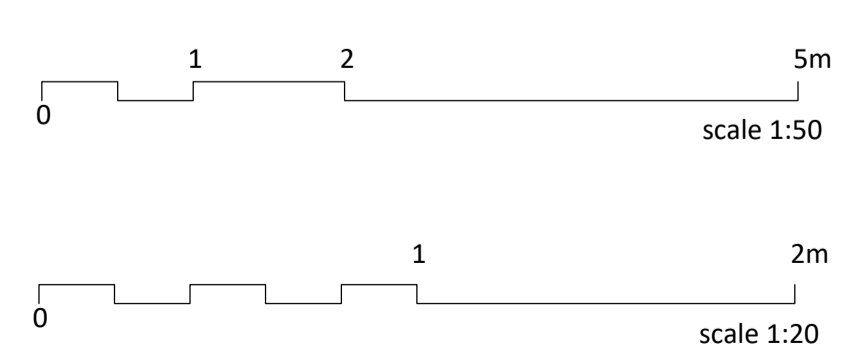
Photo 02-Localised Area with subsided floor



Photo 03-Localised Area with subsided floor



- LEGEND**
- PHASE 01
REMOVAL OF CANGATURA & BEDDING MATERIAL TO UNDERSTAND FLOOR BUILDUP
 - PHASE 02
REMOVAL OF CANGATURA & BEDDING MATERIAL (TO BE CONFIRMED BY ENGINEER IF INADEQUATE SUBSTRATE IS FOUND IN PHASE 01)
 - PHASE 03
REMOVAL OF CANGATURA & BEDDING MATERIAL (TO BE CONFIRMED BY ENGINEER IF INADEQUATE SUBSTRATE IS FOUND IN PHASE 02)
 - PHASE 04
REMOVAL OF ENTIRE ROW OF CANGATURA IF THE OUTCOME OF PHASE 01 REVEALS A SUITABLE SUPPORT (ROCK/WALL)
 - PHASE 04
REMOVAL OF ENTIRE ROW OF CANGATURA IF THE OUTCOME OF PHASE 02 REVEALS A SUITABLE SUPPORT (ROCK/WALL)
 - PHASE 04- OPTION C
REMOVAL OF ENTIRE ROW OF CANGATURA IF THE OUTCOME OF PHASE 03 REVEALS A SUITABLE SUPPORT (ROCK/WALL)



PAVING LAYOUT-BASEMENT LEVEL
SCALE 1:50

project		ST JOHN'S CO-CATHEDRAL MUSEUM		drawn		revisions		notes	
address		ST JOHN'S STREET, VALLETTA, VLT 1156		by		01 27.03.2024		ISSUED FOR INFORMATION AS PART OF THE ONGOING	
drawing		BARTOLOTT CRYPT-INVESTIGATIVE WORKS UNDERLYING CANGATURA		checked by		KB		INVESTIGATIVE WORKS UNDERNEATH THE CANGATURA FLOORING	
date		27.03.2024		date		27.03.2024			
diag no.		C 0 0 4 1 0 . 0 0 F - B 1 S - 1 0 0		REV.		0		scale 1:20:1:50 @ A2	

notes	