



VIEW OF BELLCOTE CROSS PRIOR TO CROSS & COPING SOCKET STONE TEMPORARY REMOVAL DUE TO INSTABILITY.



VIEW OF BELLCOTE AFTER REMOVAL OF CROSS & COPING SOCKET STONE.

Fragment of cross re-attached provisionally by HES Applied Conservation Team as per drawing 189-160909-002.



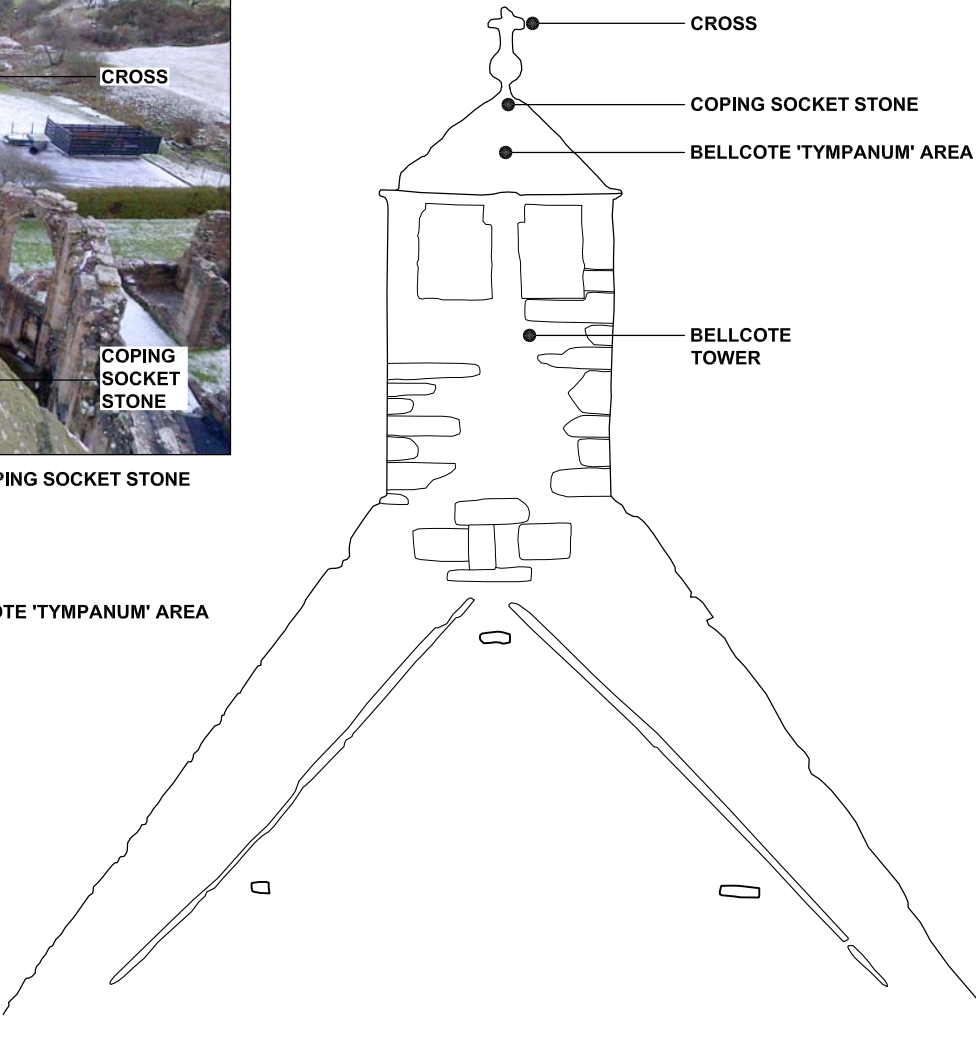
CHOIR SIDE OF CROSS WITH DETACHED FRAGMENT.



NAVE SIDE OF CROSS.



COPING SOCKET STONE.



1:50 SECTION THROUGH UPPER PART OF NAVE SHOWING BELLCOTE.

Ensure cross is aligned correctly to coping socket stone & rest of bellcote tower when re-installing (to match photograph left showing cross and socket stones in-situ prior to their removal i.e. leaf carving to face east to choir and apse).

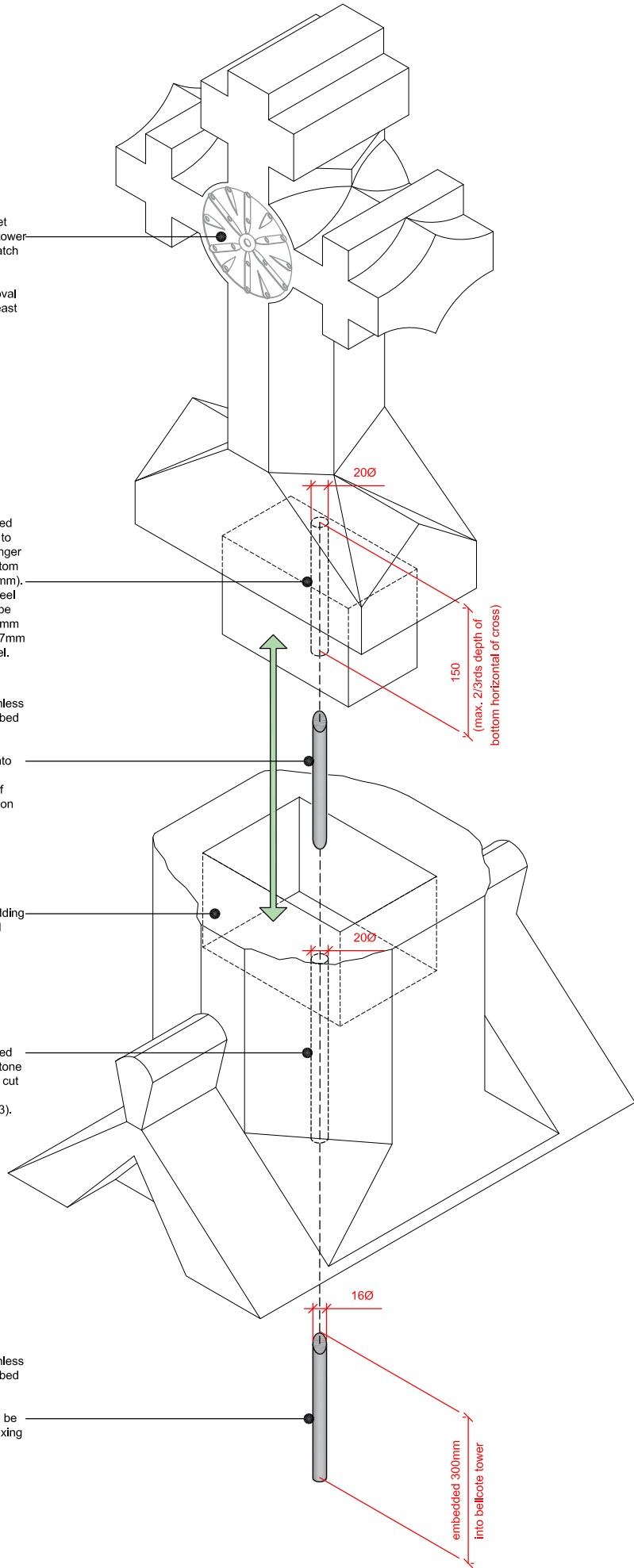
20mm Ø hole drilled/cored into base of cross stone to protrude into base no longer than 2/3rds depth of bottom horizontal of cross (150mm). Once cored, stainless steel sleeve or round tube to be inserted (20mm OD, 1.5mm wall thickness) to give 17mm ID to accept 16mm dowel.

16mm Ø grade 316 stainless steel round dowel to embed into bellcote tower to 300mm, to rise through coping socket stone & into base of cross to 150mm (overall approx. length of 680mm - to be checked on site).

NHL5 hydraulic lime bedding mortar within socket and pointing to socket/cross base joint.

20mm Ø hole drilled/cored through coping socket stone to align with sleeve hole cut into cross stone (see drawing 189-160909-003).

16mm Ø grade 316 stainless steel round dowel to embed into bellcote structure 'tympanum' area rubble stonework. Build here to be investigated to confirm fixing detail - provisionally bed stainless steel dowel in Hilti-HIT resin to 300mm depth.



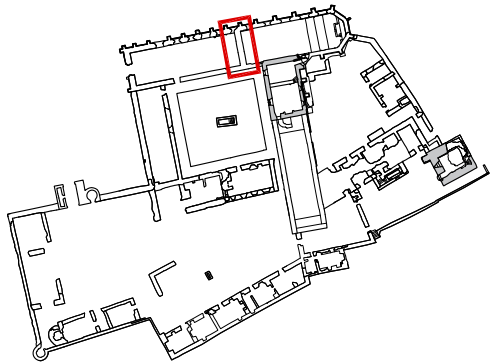
1:5 AXONOMETRIC OF PROPOSED FIXINGS PRIOR TO CROSS RE-INSTALLATION

Notes:
See drawing 189-160909-002 for laser scanned imagery and stone conservation works being carried out (provisionally) by HES South Gyle.
See drawing 189-160909-003 for details of coring to stones for installation of M16 stainless steel support dowel.

Residual Risks

- The cross stone weighs approximately 31Kg. The capping stone weighs approximately 69Kg. The stones will be re-installed to the top of the Bellcote (height approx. 16m) utilising designed scaffold with suitable winch incorporated.
- Method statement for re-installation of the two stones to be devised, from transport from Gyle Conservation Centre to their re-installation on site.

Revisions:
REV A: 20/10/2016 [SD] - notes amended for SMC application.



SMC

MONUMENT	CROSSRAGUEL ABBEY
PROJECT	BELLCOTE CROSS & COPING STONE RE-INSTALLATION RE-INSTALLATION PROPOSALS



PROJECT DRAWING NUMBER		189-160909-001A	
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DATE	19/09/2016	DRAWN BY	S.DEASLEY
ARCHIVE NUMBER			
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