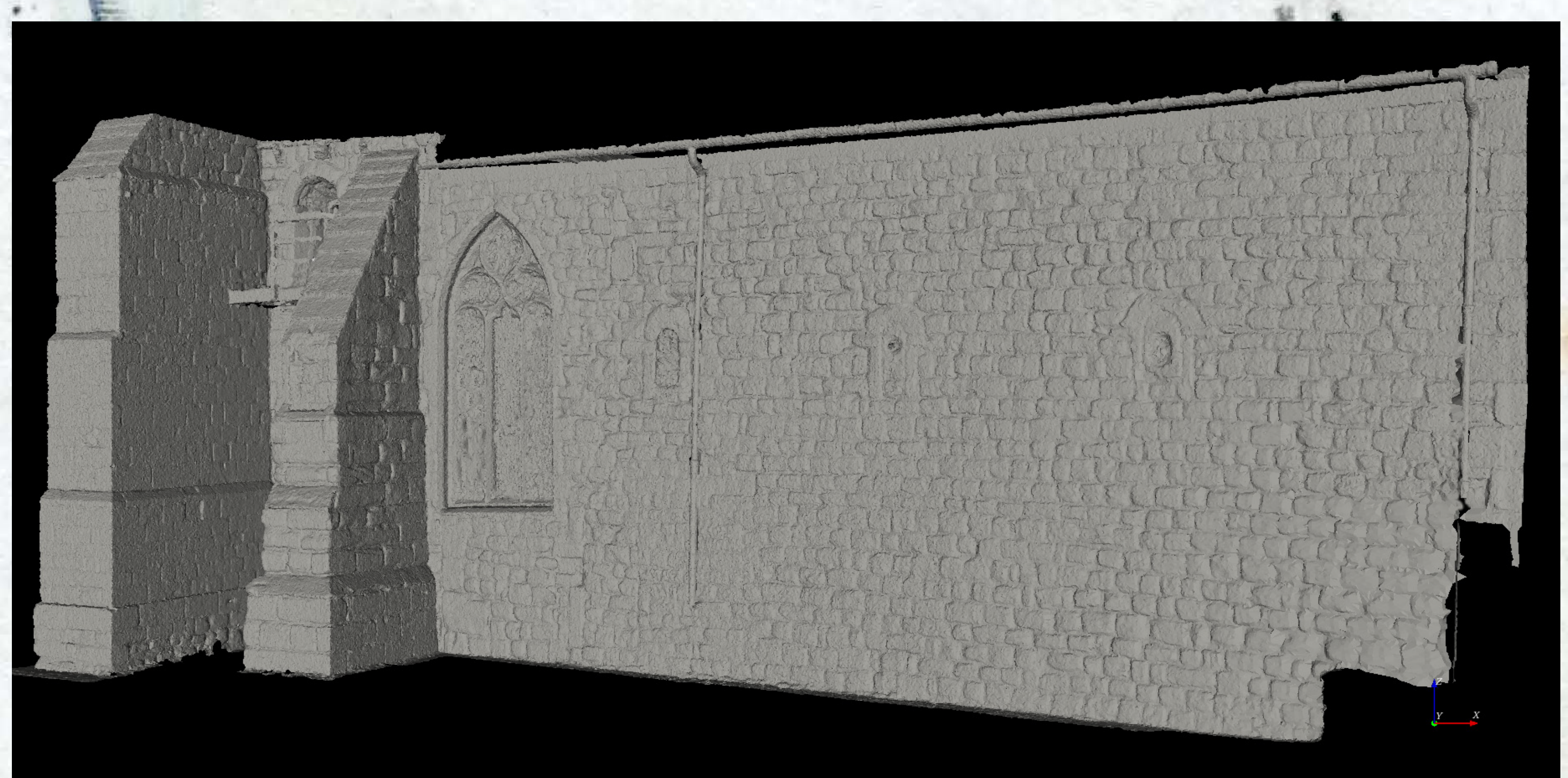


*‘exploring the building techniques and architectural form of each church in more detail.’*

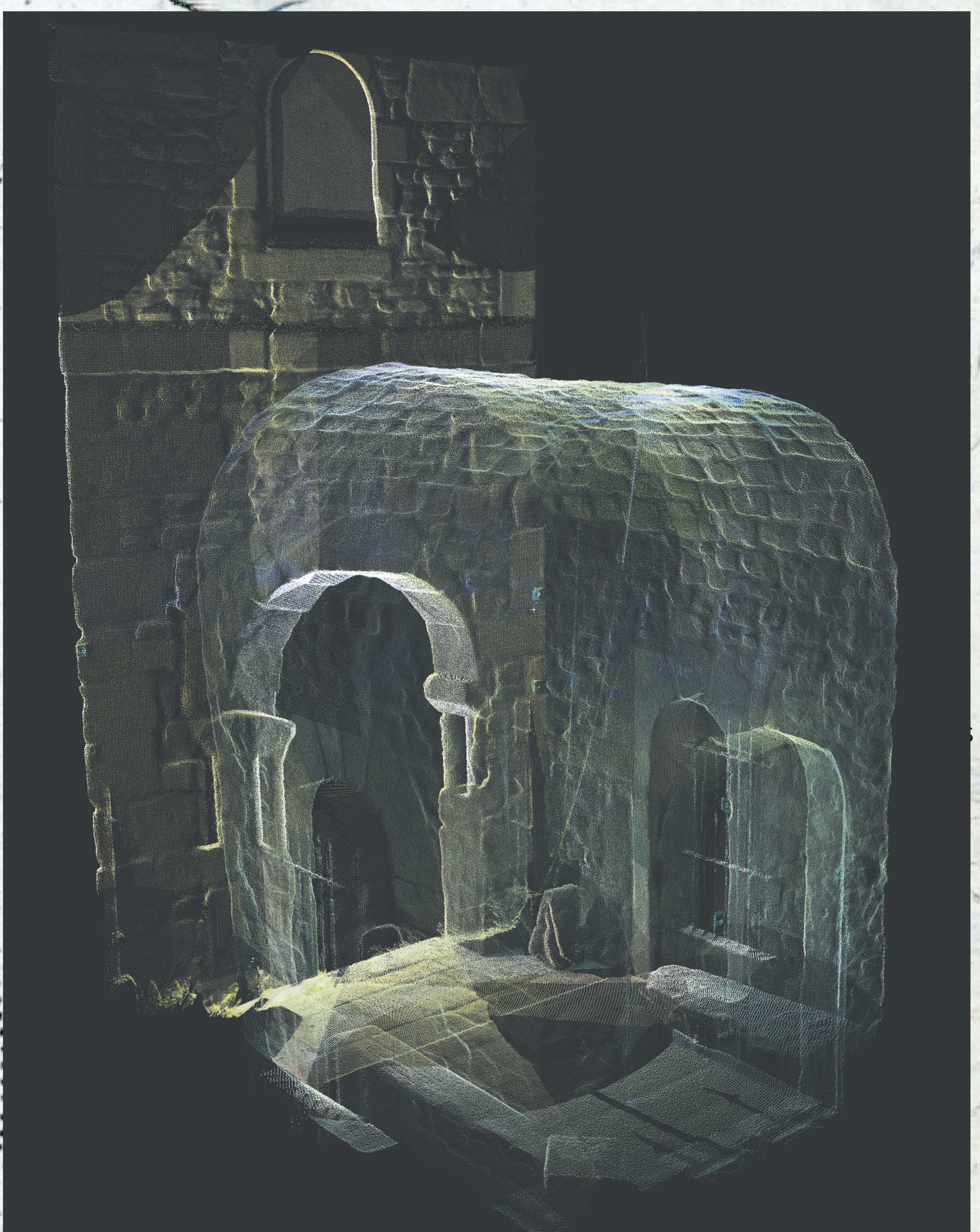
High definition laser scanning has been used to create 3-D models of the surviving Anglo-Saxon fabric. This is allowing us to explore the building techniques and architectural form of each church in more detail.

The construction of the stone-built churches involved the use of a large proportion of building material taken from a Roman structure or structures. Our results suggest the source of this stone was the neighbouring Roman fort at Arbeia, at South Shields at the mouth of the River Tyne. Although we have more work to do, it appears that whole features such as windows and arches as well as general building stone, was removed and transported from the Roman fort for use in the construction of the masonry buildings. John Senior, our building specialist, has also identified what may be several Roman altar stones used in the construction of the original seventh-century church at Jarrow.

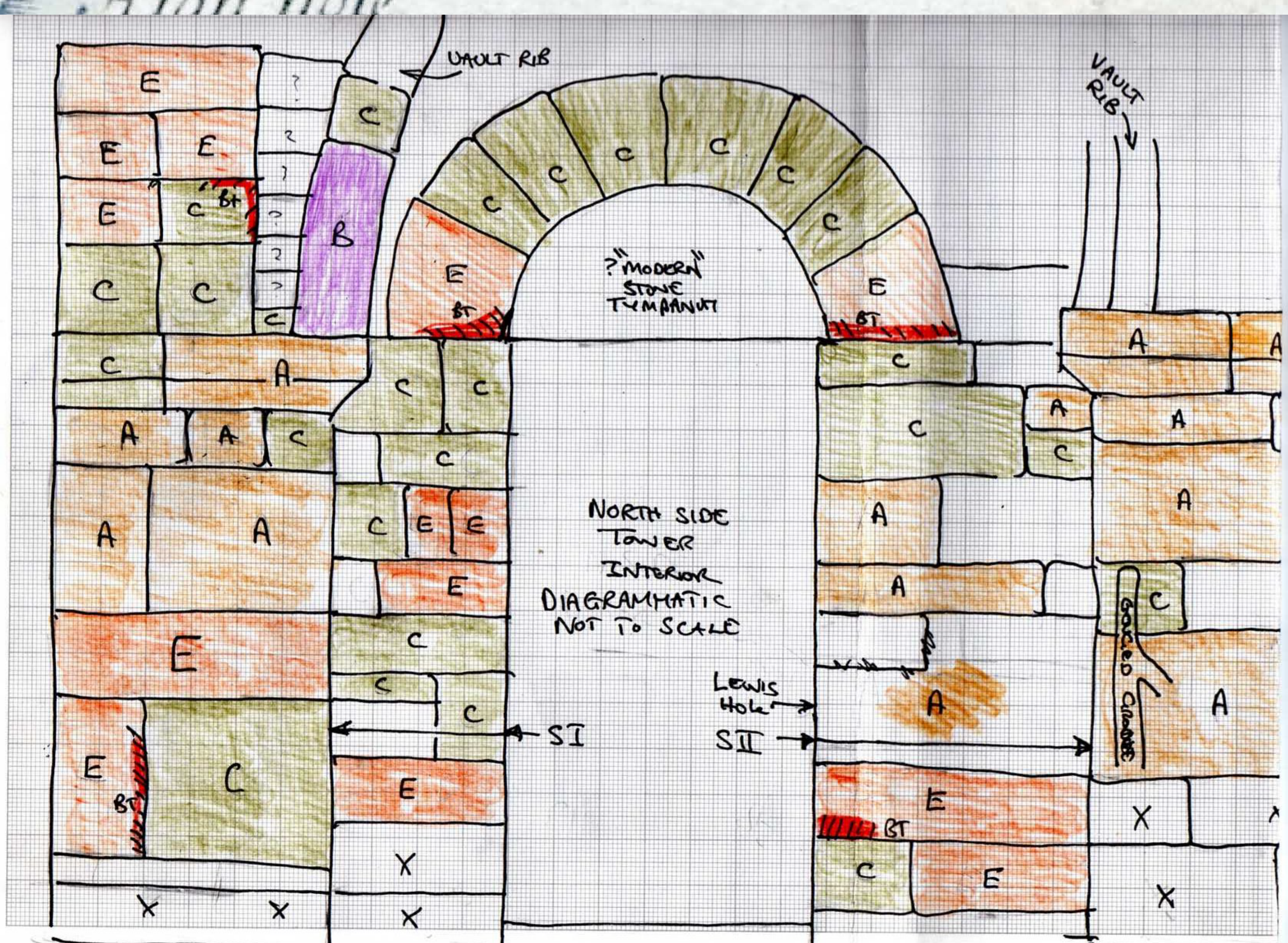
Many Anglo-Saxon churches were built using recycled Roman building stone, brick and tile. This has been argued as a form of romanitas – a reverence for and desire to emulate continental and Roman Christian and imperial traditions. This places the monasteries firmly within a genre of continental monastic houses that followed the fashions of the late Roman Christian world. The building plans and architectural embellishments of each monastery, revealed by Professor Cramp’s excavations agree with this interpretation. Not only was Benedict Biscop building a monastery ‘according to the manner of the Romans’, he had hired masons from Gaul that were using Roman fabric, materials and even whole Roman features in their architectural design.



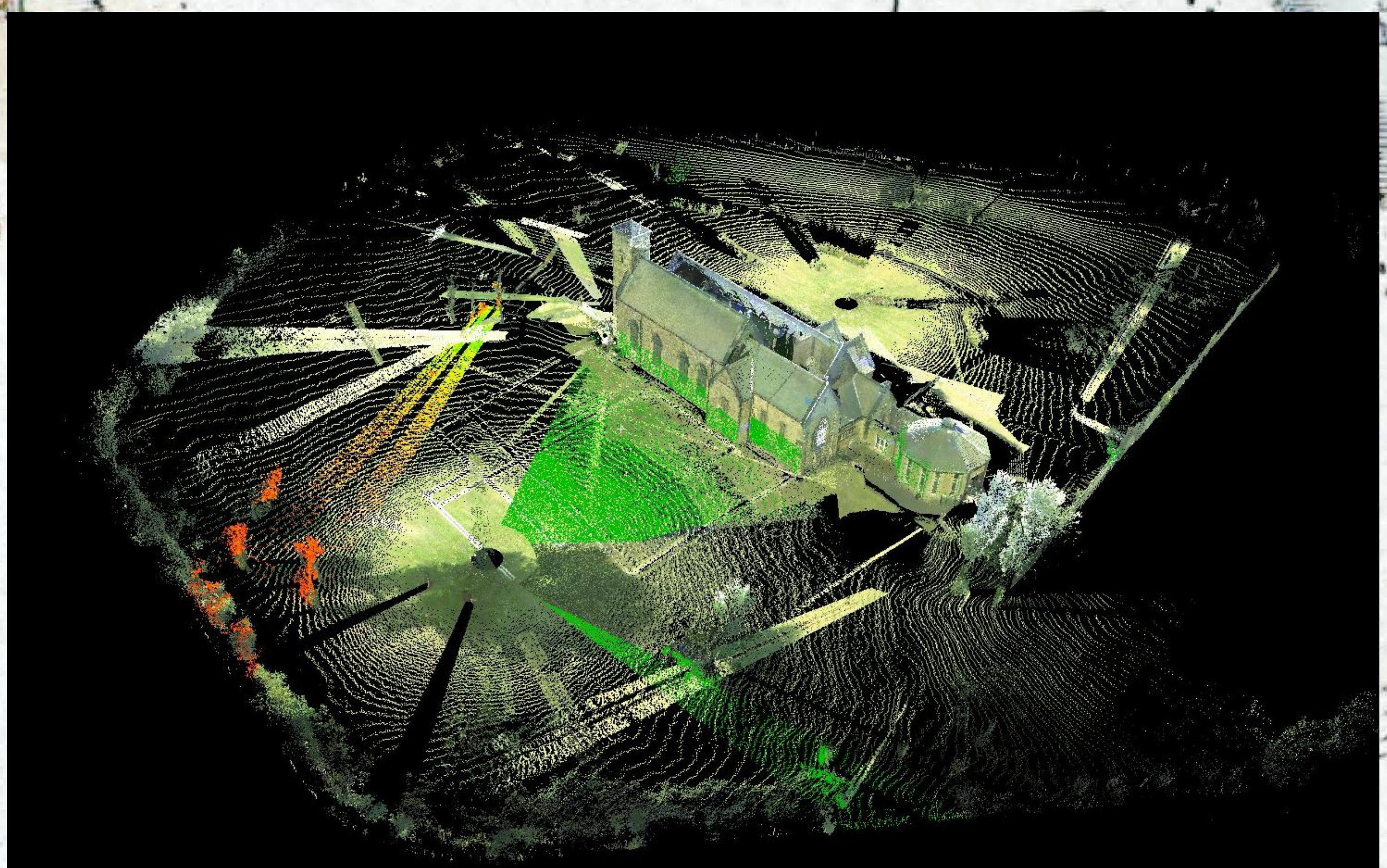
surface model of south wall of chancel at St Paul's



point cloud derived from 4 high definition scans of the porch at St Peter's



field sketch for petrological work at St Paul's



working shot of laser scans of the churchyard around St Peter's