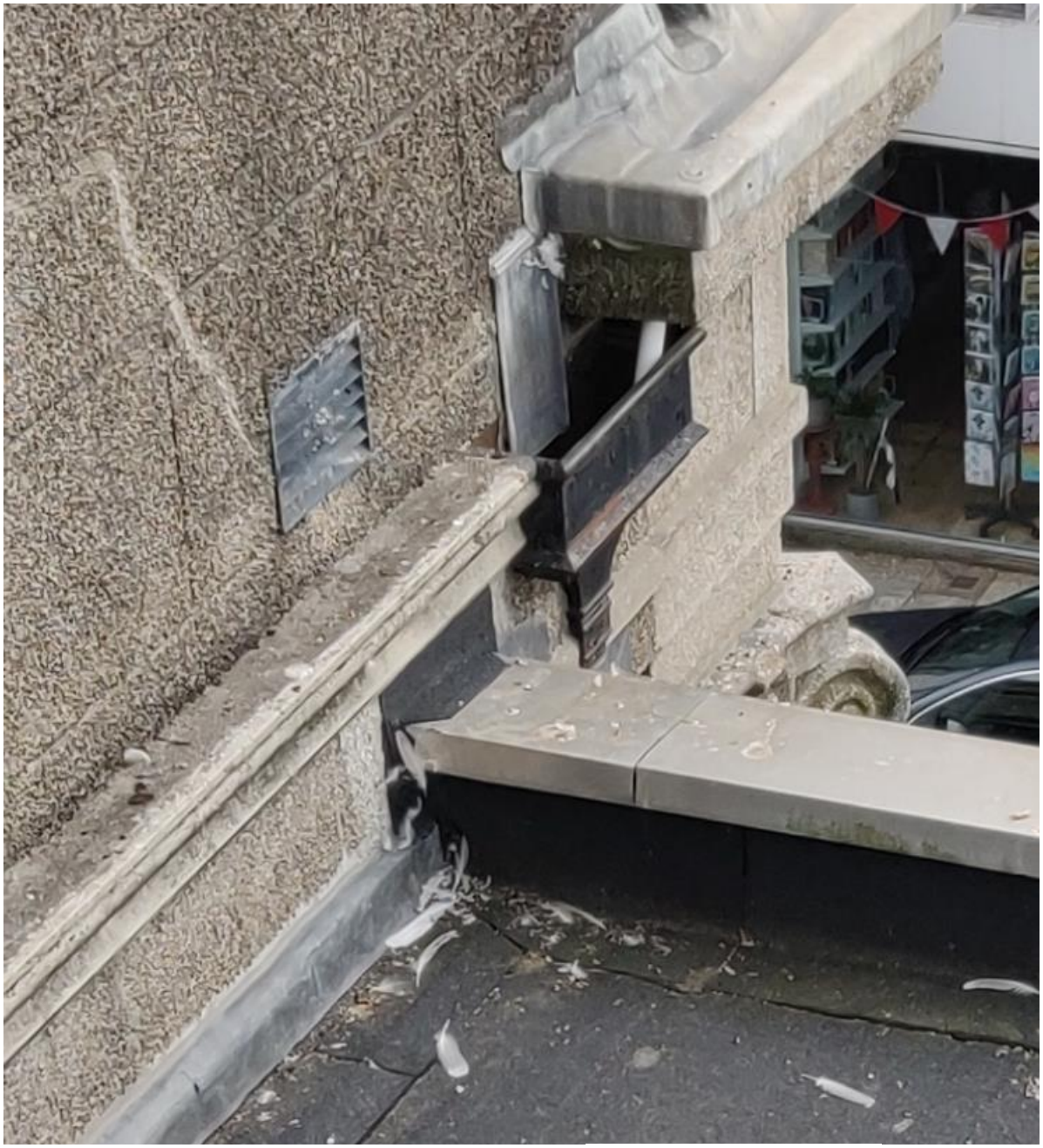
Additional Photos (25/10/2023)

The white outlet seems inadequate so the lead trough will overflow. Same detail on the other end of this main roof (Appendix 2 DSC00107).



DSC00077

DSC00078

DSC00107

ROOF VOIDS

Limited access was given to the roof voids. Minimal access provided throughout.

Roof Void R1 (Library)

Limited access. New steel structure on columns and bracing. Inadequate insulation. Further access needed by arrangement.

Roof Void R2 (Philbrick)

Gang nail plate truss on raised shuttered concrete collar supported on steel framing with ladder strutting across supporting glazing. Later 1990s gang nail plate added, replacing lantern or glazed structure unknown.

Water getting in the corners due to poor detailing at low level. Re-detail behind secondary fascia. Possible condensation. Possible water entry through Chinaman's cap and lead vent to ventilators below (ref. external section of report).

Roof Void R3 (Main Gallery)

Steel frame lightweight trusses supporting an upper slated area with what were glazed panels to mid span. It has been braced with steel ties and bars at a later stage. The lower level has a cast concrete beam, which seems very heavy for the truss blade. Rust appears to be occurring where it is dressed into the lower wall, particularly on the east face. Further investigation needed. Roof void insulated. Ventilators are provided. There is some evidence of earlier damp around them.

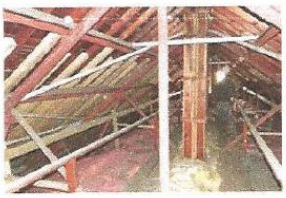
Roof void R 4 – See Room 5.01 (Archive)

Roof void R5 – See Room 5.09 (Chapel)

The single image below seems to be the roof above the Philbrick Gallery, roof R2.

DSC00869

I do not have time to fully review the Scott's report to see where these photos are referred from. They all seem to be the same space.

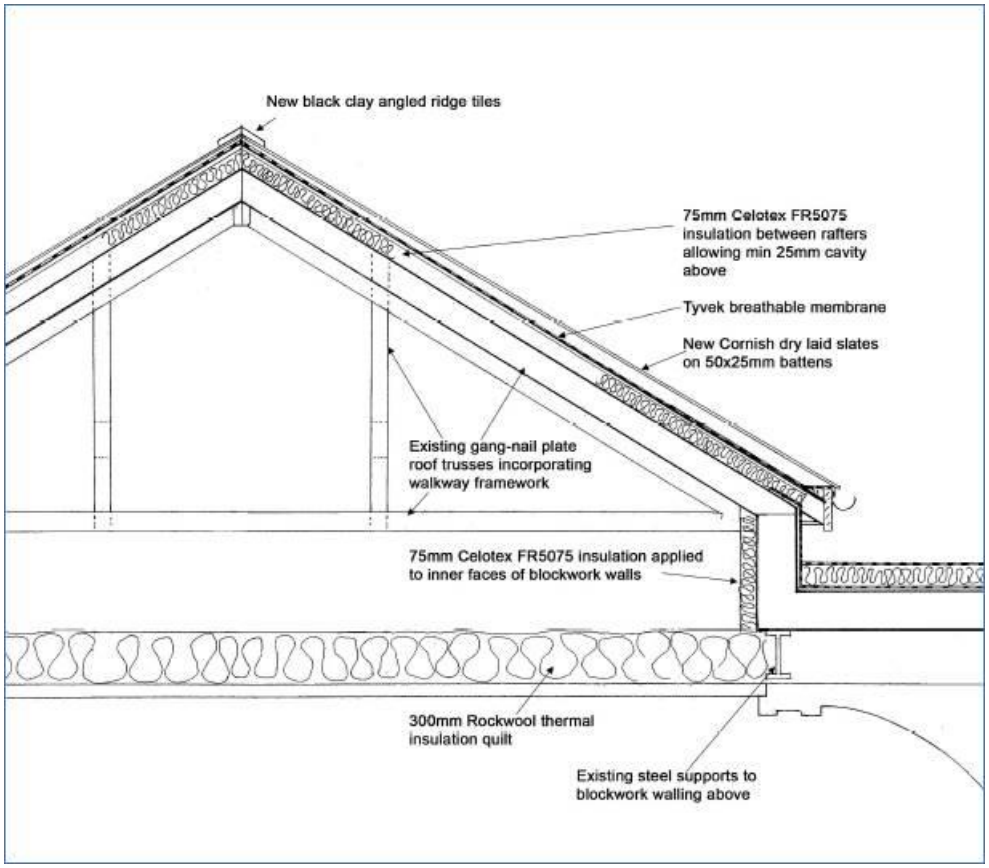


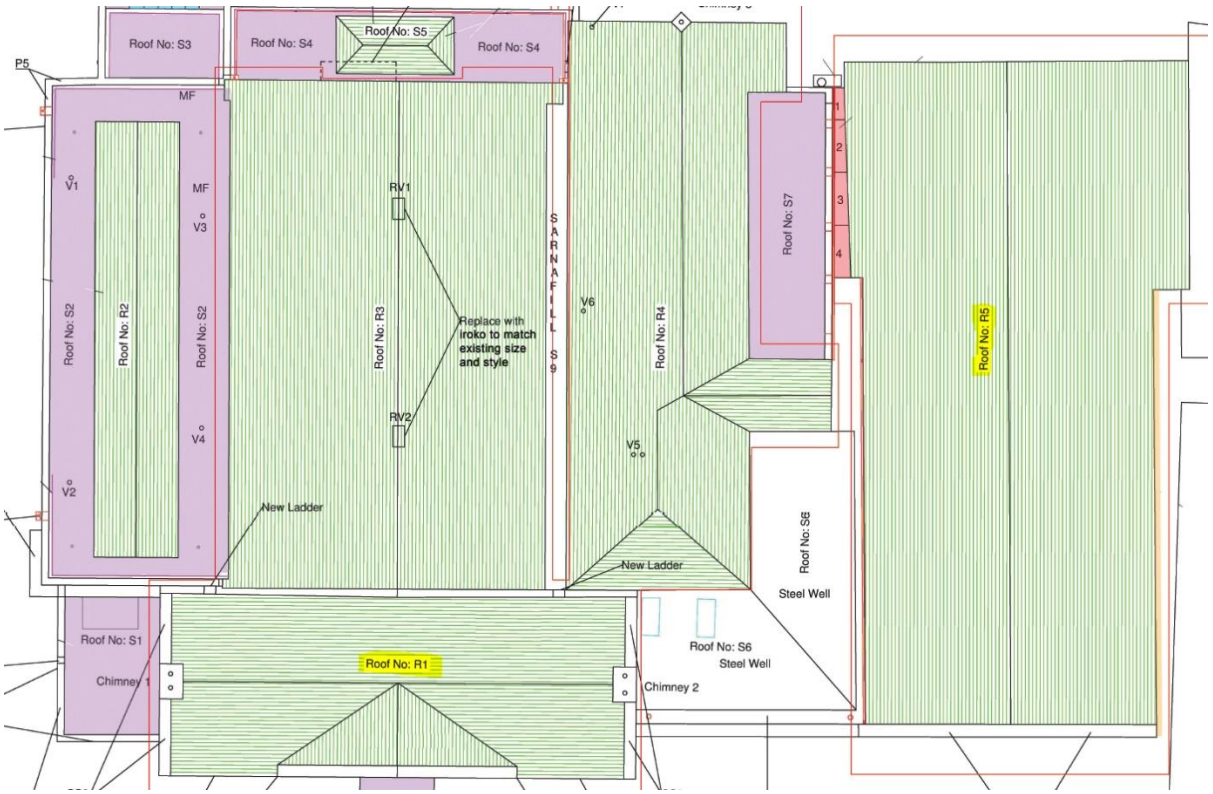
DSC00875

DSC00876

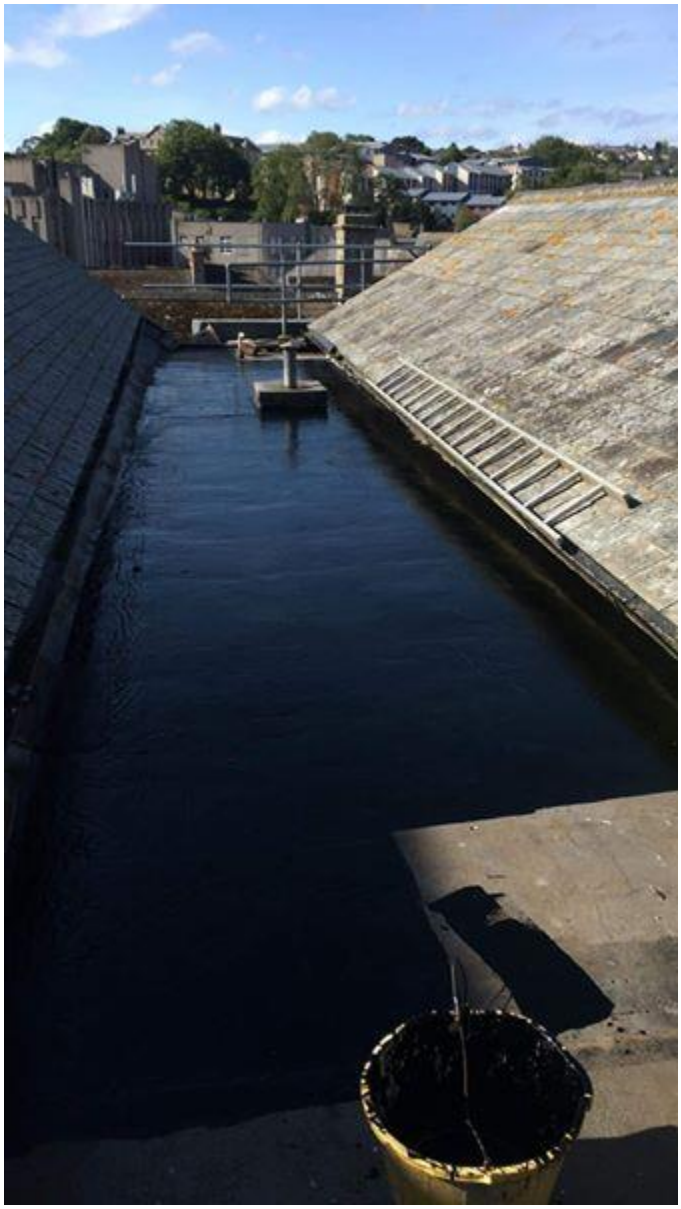
DSC00877

DSC00878


New black clay angled ridge tiles
75mm Celotex FR5075 insulation between rafters allowing min 25mm cavity above
Tyvek breathable membrane
New Cornish dry laid slates on 50x25mm battens
Existing gang-nail plate roof trusses incorporating walkway framework
75mm Celotex FR5075 insulation applied to inner faces of blockwork walls
300mm Rockwool thermal insulation quilt
Existing steel supports to blockwork walling above


Roof No: S3
Roof No: S4
Roof No: S5
Roof No: S4
P5
MF
V1
MF
V3
RV1
SARNAFIL S9
Roof No: S7
Roof No: S2
Roof No: R2
Roof No: S2
Roof No: R3
Replace with iroko to match existing size and style
V6
Roof No: R4
Roof No: R5
RV2
V4
V5
V2
New Ladder
Roof No: S8
New Ladder
Steel Well
Roof No: S1
Roof No: R1
Roof No: S6
Steel Well
Chimney 1
Chimney 2


rcm
royal cornwall museum



Barham -This was a warm roof system comprising of @danosauk vapour layer, 120mm insulation, Danosa underlay and then Danosa mineral cap sheet.