

Building Control and the re-use of existing buildings and materials

Conserving Ireland's Architectural Heritage

Non-Standard 'Standardisation'

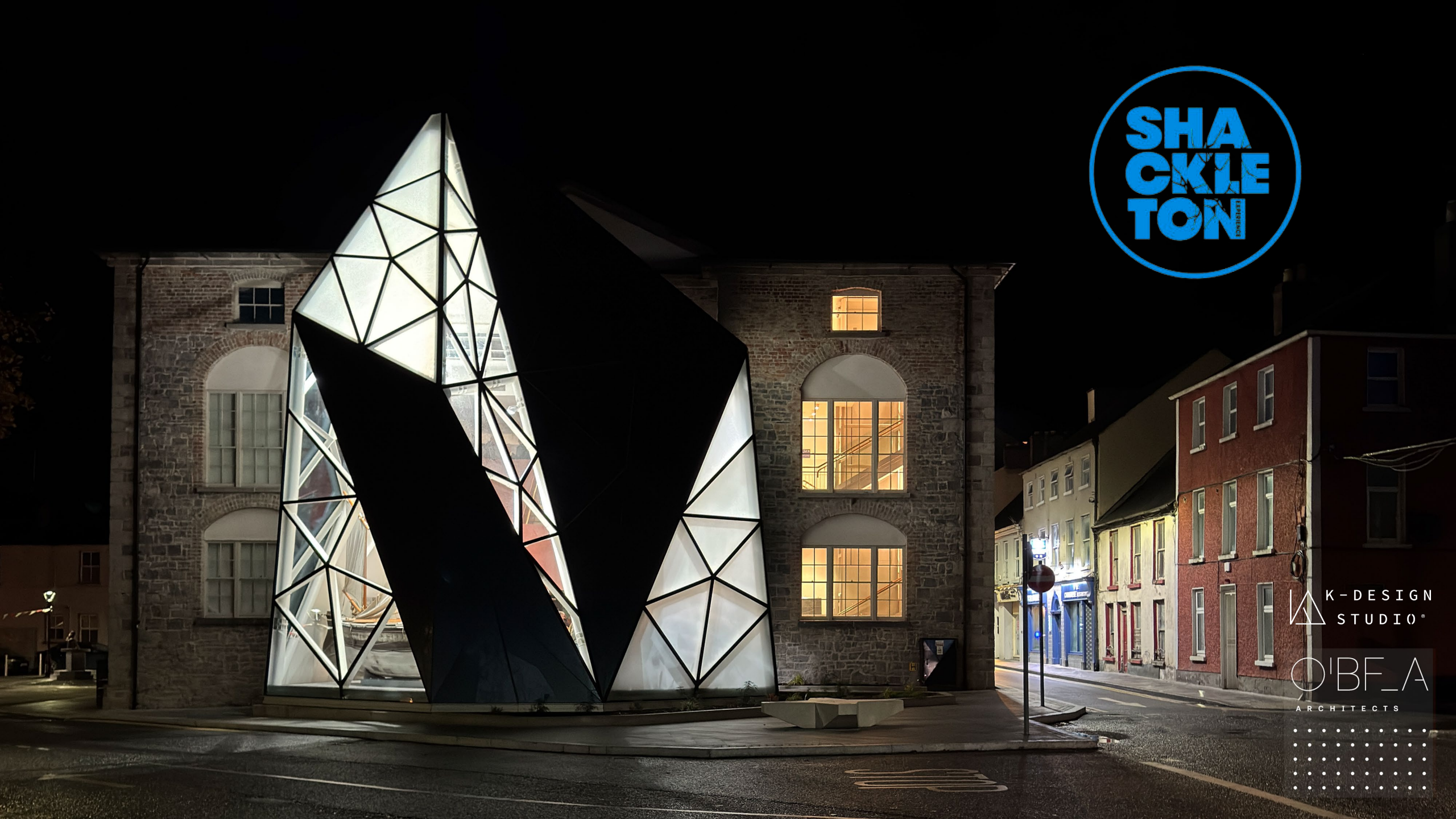
2 Case Studies (* DF Omitted)

Ciaran O'Brien FRIAI | Practice Director, OBFA Architects



Telling a compelling storey

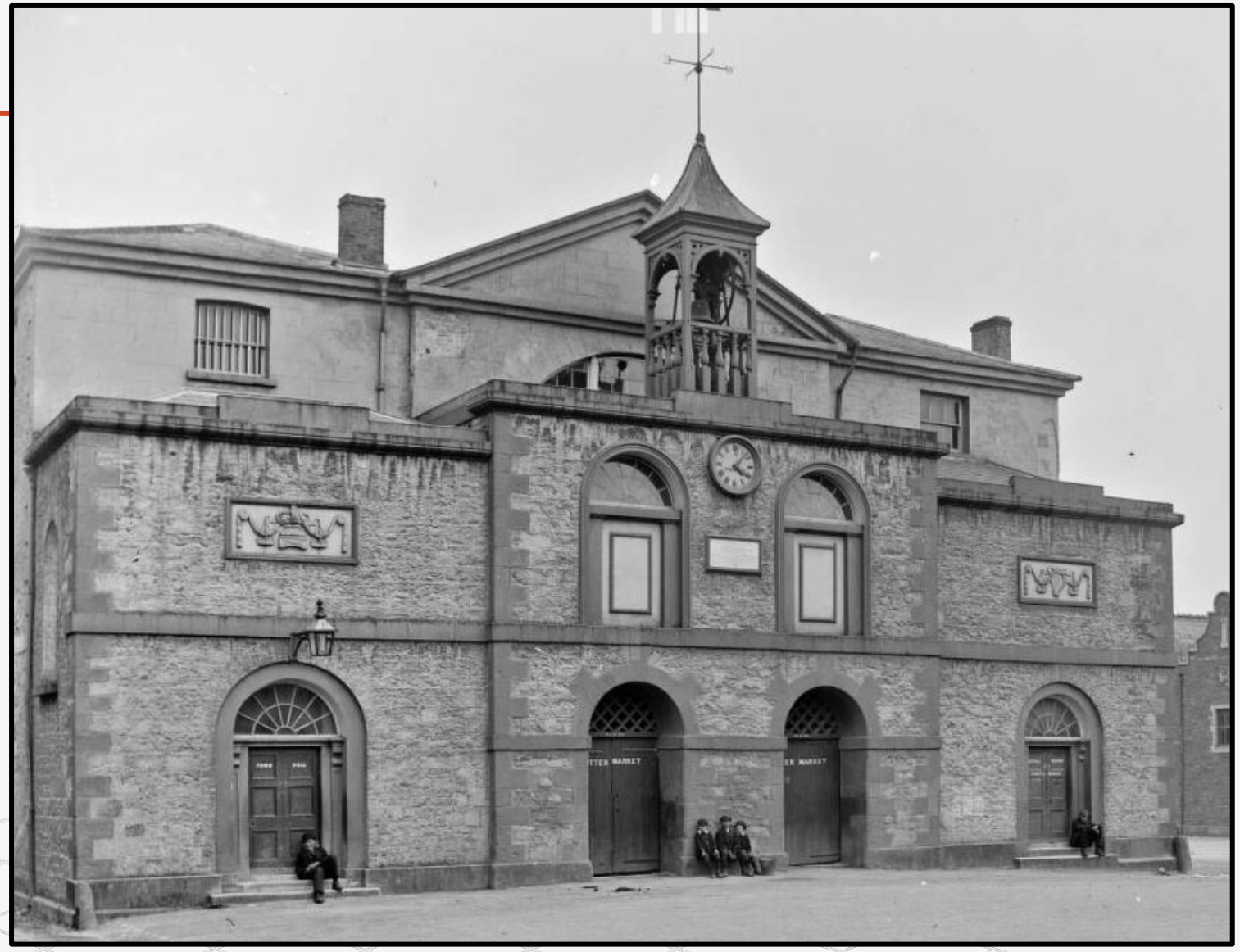
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History & Context

1880-1900





Athy Market Building / Town Hall / 1740's / Earl of Kildare / Served as Courthouse

History & Context

1915
Enlarged and altered,
1890’s, 1913

Sold by Fitzgerald's to
Kildare in 1975

c1983
Extensively altered.
Fire Station Service
Over rendered
Structural changes



Starting Point



Investigate

Pattern of materials,

Damage, Weathering,

Material failures.

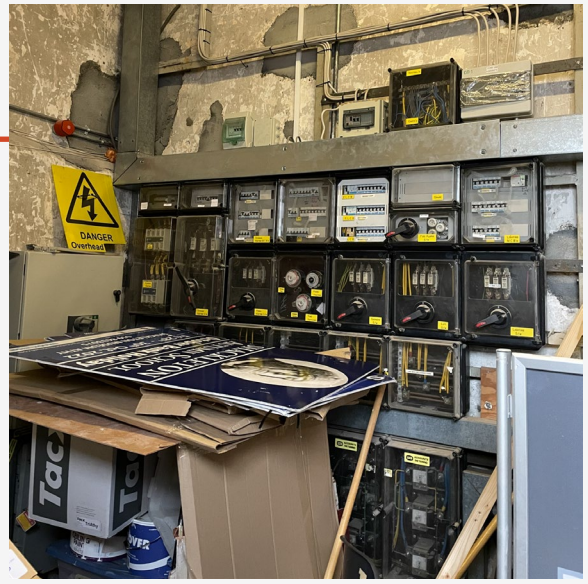
What's critical,

What's redundant

What’s possible.













Investigate

Pinning removal of paint,

Historic Repairs

Structural Story







Investigate



Rapidly realising that the ‘repair history’ was extensive

Fabric





Fabric



Re-Scanning of Entire Building as a point of record

Patterns of materials, Damage, Weathering, Material failures



Brief

Conservation, repair and addition to provide a permanent home for the Shackleton Collection.

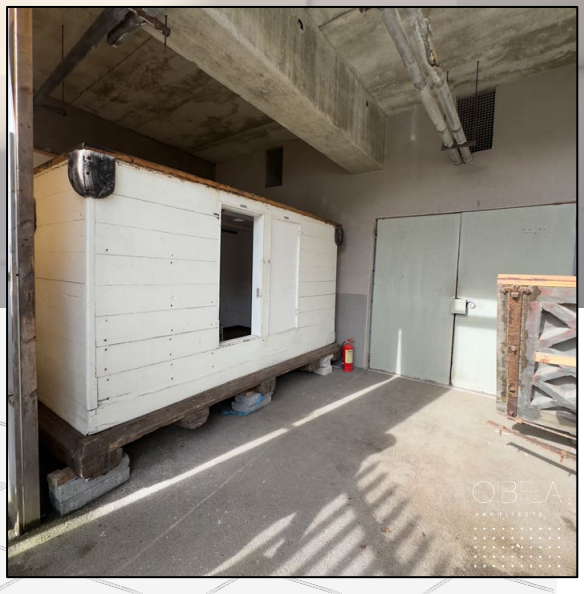
Exhibition, Storytelling, Archival and research activities.

Controlled and management environments to protect sensitive objects.

Brief

A new Antarctic form, distinct and contrasting the historic form.

Management of humidity, UV, Solar Gain, Cooling, thermal comfort.



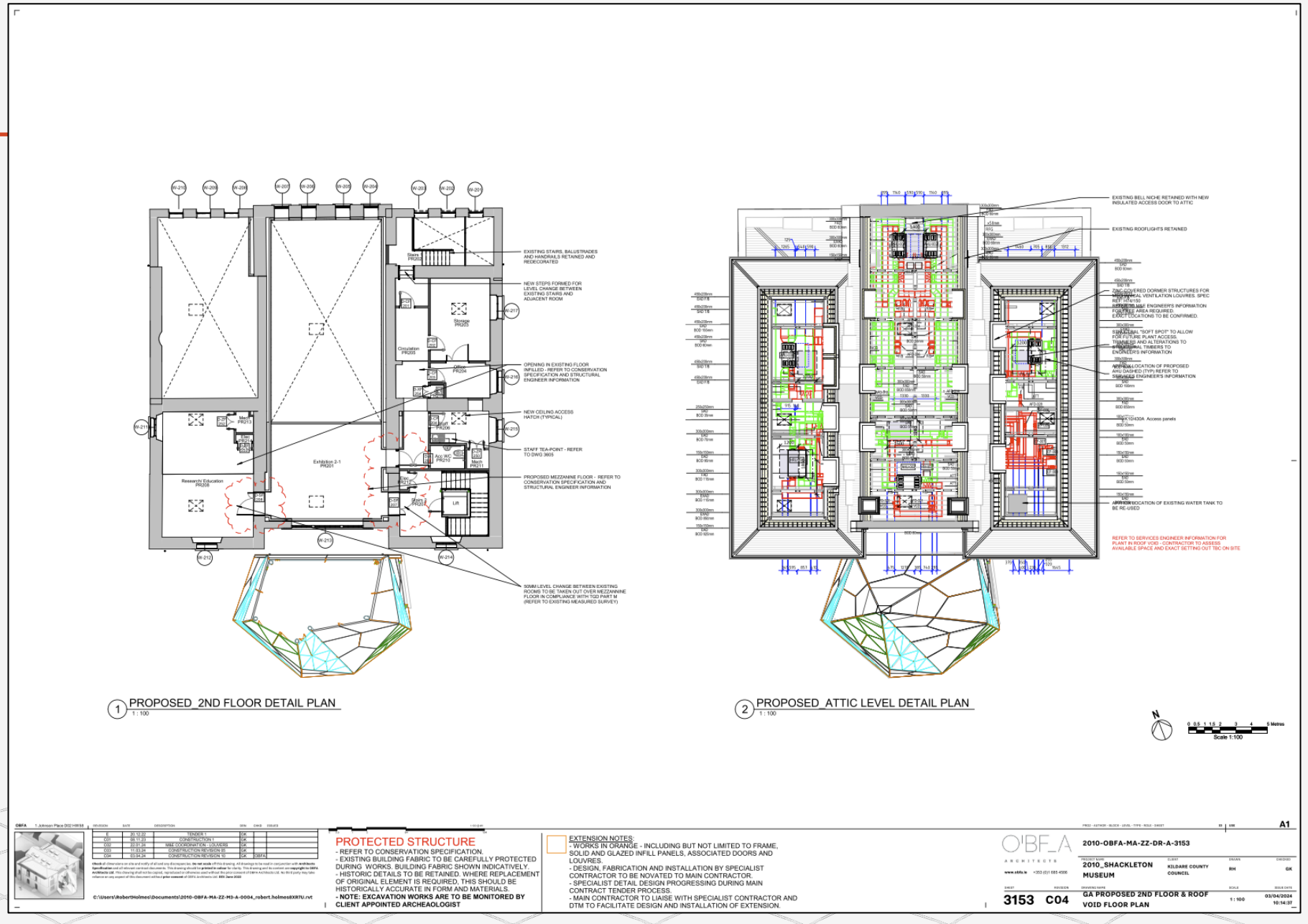
Designed Outcome

New Internal layouts
–
(or really returning to OLD internal layouts)

Updated Services

Managed Environment Controls

Backdrop for custom exhibition installation











Interventions

Fenestration

Legacy sash windows repaired and only replaced where necessary.
New slimline DG glazing to all opes.
Taping and sealing with controlled background ventilation in frame.

Related to need for controlled environment insofar as possible.
Letting the building fabric do as much of the work as possible.

Roof Treatment

Cold roof with vapour permeable insulation at ceiling level.
New natural slate roof with focus on flashing and rainwater goods treatment

Decision to replace roof following found spalling and desiccation of older slate

Space Heating / Cooling

Demand Air Source Heat Pump System
Museum Environmental Control heating and cooling system.
Underfloor heating.

Interventions

Floor Buildup

New limecrete and part insulated traditional slab floor with insulation.

Non-Standard material
Relies on specialist for mixes and an understanding on how the material will perform. This cannot really be 'certified' but it can rely on experience / professional judgement.

Walls externally

Originally planned to apply lime shelter coat to unify façade aesthetic.
Decision to omit this based on observed moisture content in walls.
Staining and different responses dependent on substrate material.
Removal of ribbon pointing and replacement with lime mortar and repair throughout.

Acceptance that the wall surface and section will respond over time in appearance

Walls Internally

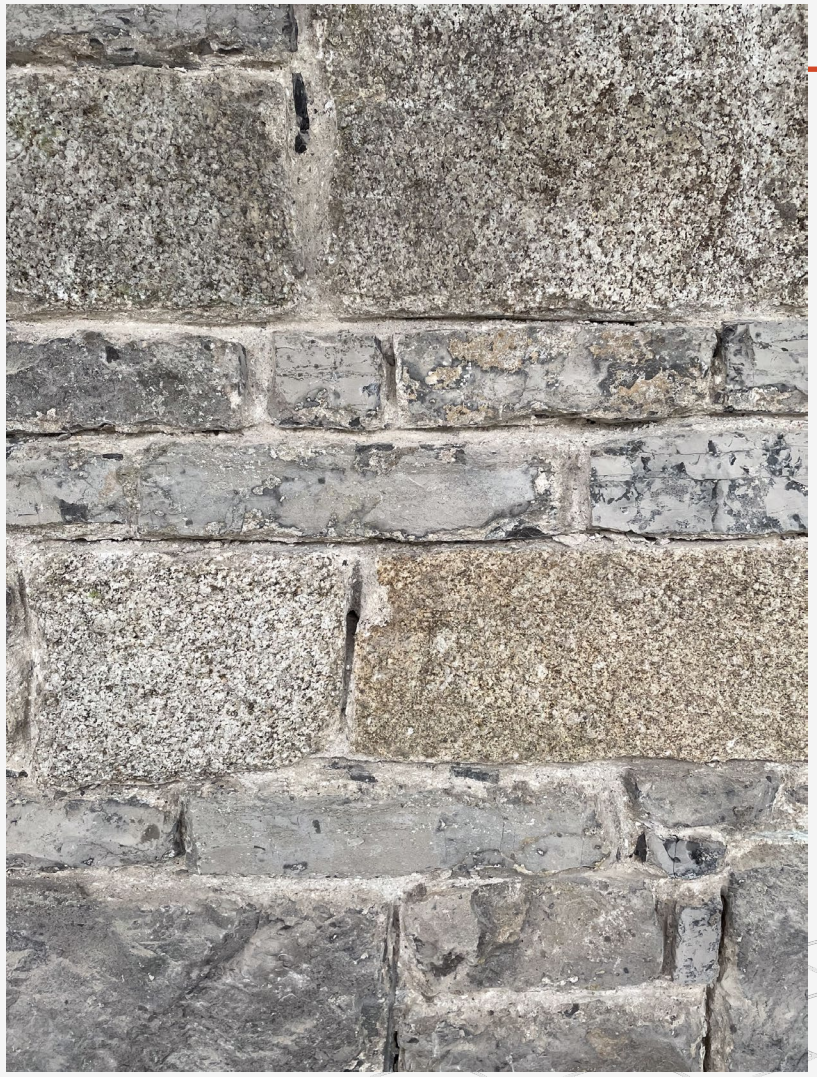
Existing Lime render where bonded left in place.
New sealer lime coat to exposed stone.
Where exposed, lime shelter coat applied.

Sheltercoat





Absorbtion, Colour, Texture, Aesthetic





What the walls are trying to do and why







Pier – And not being afraid to change one's mind







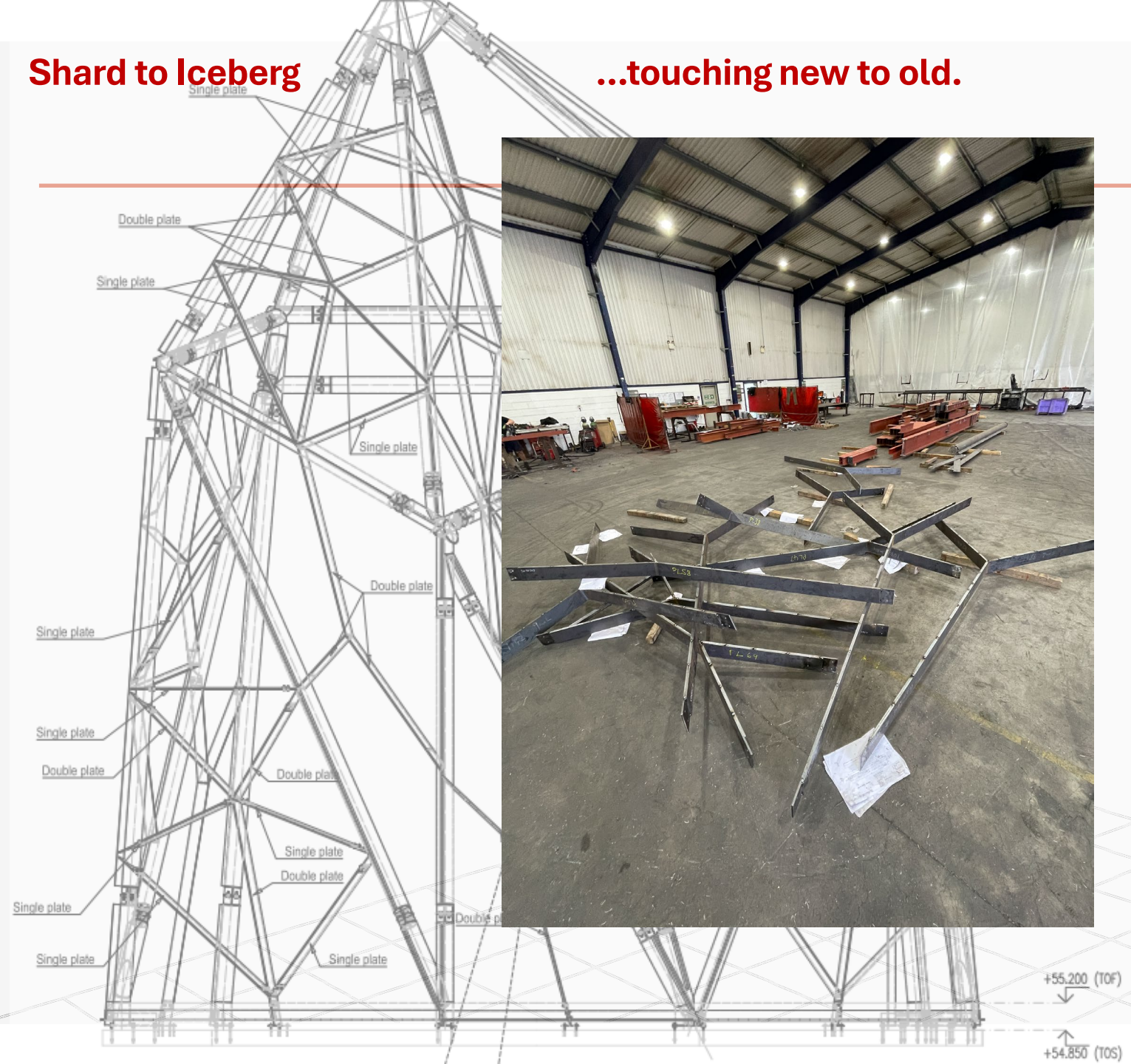
Pier





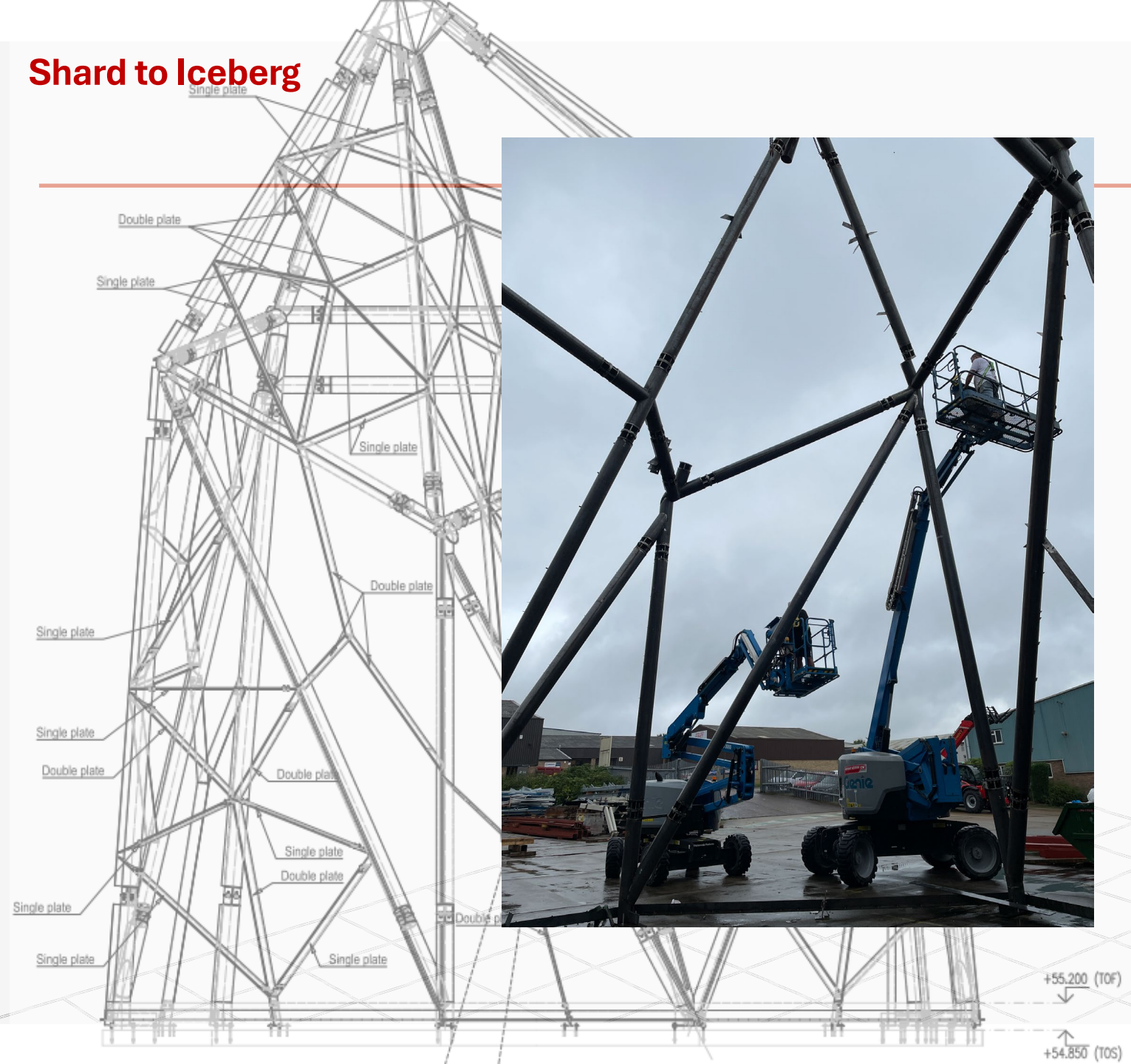
Shard to Iceberg

...touching new to old.



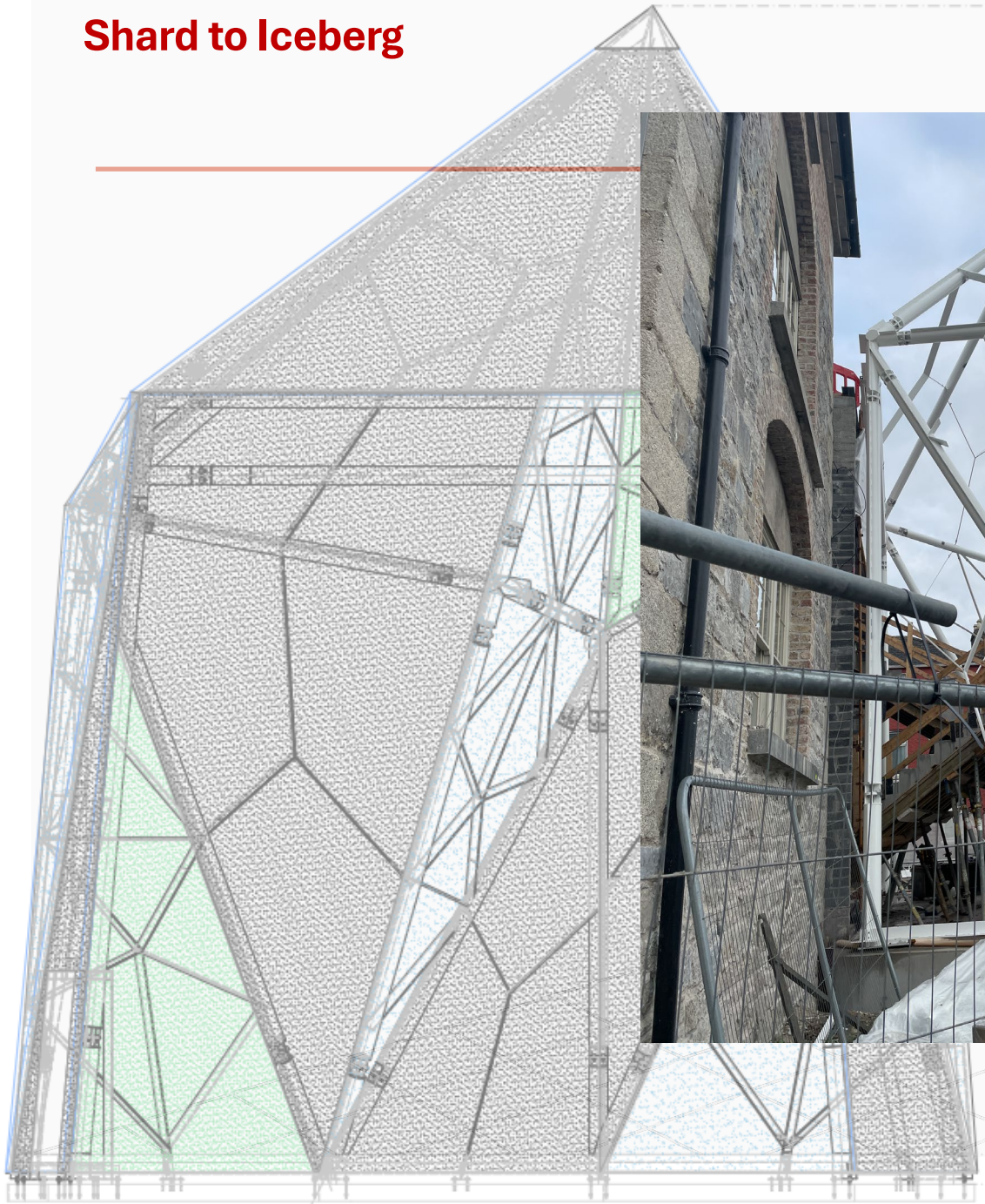


Shard to Iceberg





Shard to Iceberg





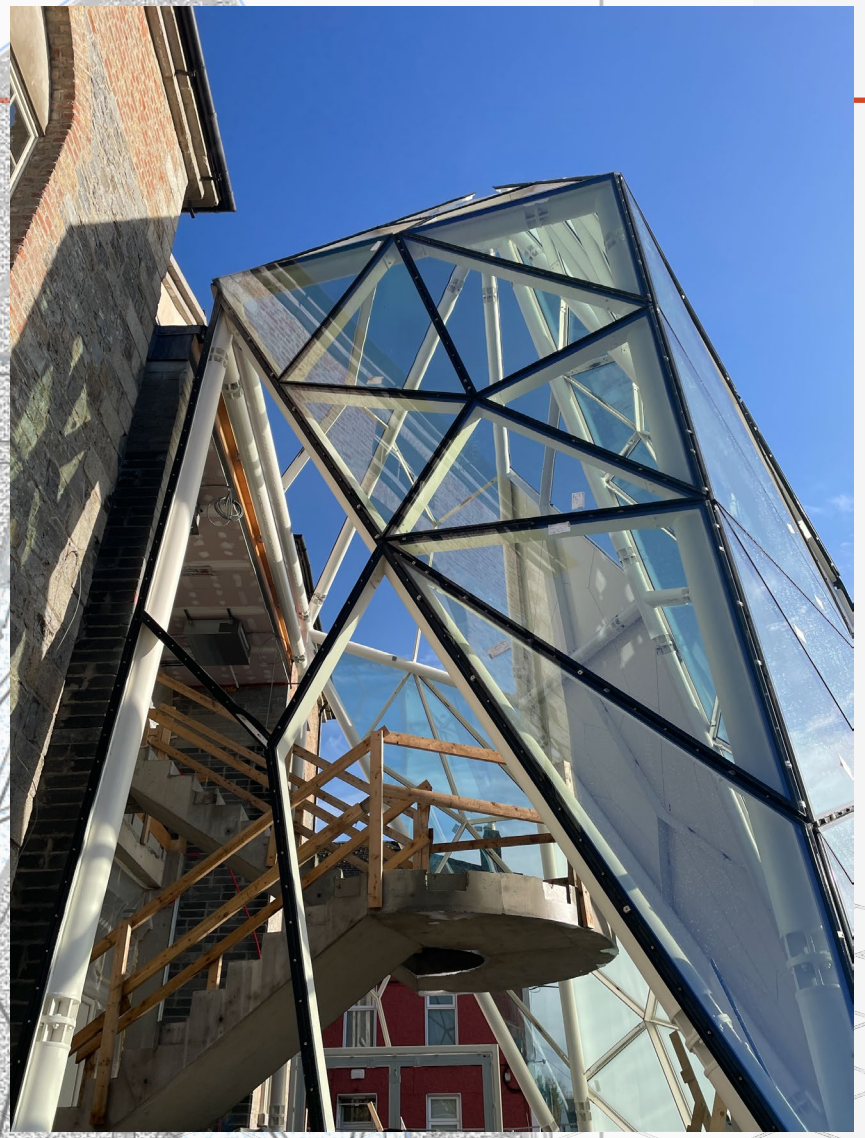


Shard to Iceberg



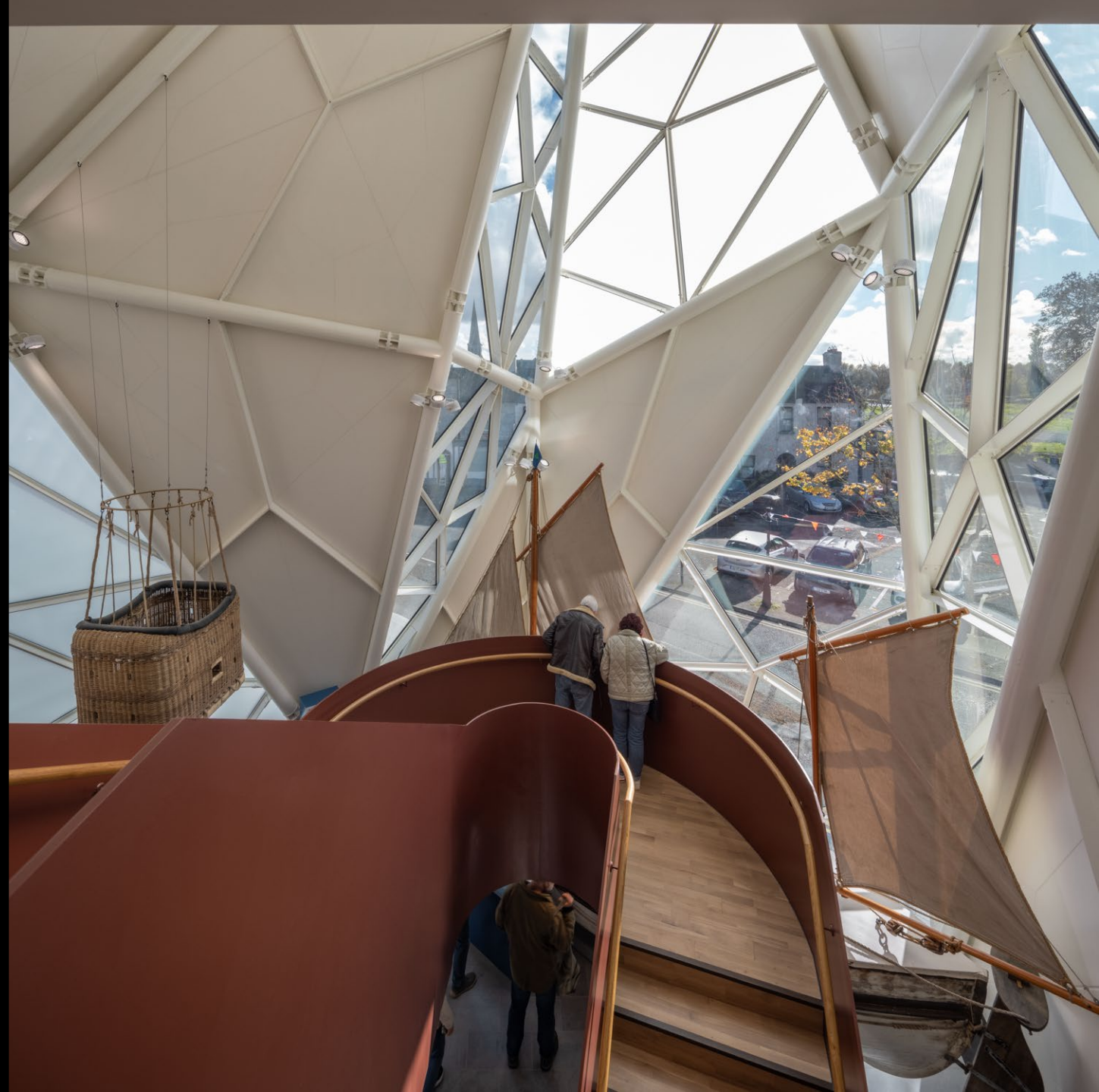


Shard to Iceberg
















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