

KEY PLAN - (Scale 1:200@A1 )

Refer to drawing 27708-A(02)15-P1\_Proposed Roof Plan (Final) for the extent of the roof plant equipment.

Scope of works - Roof

General Note:  
Design intent for the supporting structure, follows the general principals set out in ARUP drawing:  
HSBCCM-ARP-XX-40-DR-M-154801.

- R.01

The roof canopy system over the new dry air coolers, are formed using using standard clear rigid polycarbonate sheets and powder coated aluminium glazing bars. The support posts are universal hot dipped columns with welded tapered vertical flanges, the roof sections are from SHS and the canopy stop ends formed using PFC's. All structural elements sizing & bracing/haunches to be confirmed by the S.E.
- R.02

Aluminium rainwater goods mechanically fixed to the eaves SHS. All proposed steelwork to have a galvanised anti corrosion pre-finish treatment.
- R.03

Access gantry floor to follow S.E's details and to include integrated galvanised steel handrail guarding to the perimeter of the plant deck and access steps to British Standards. The access floor is to be inset with 1000 x 1500mm 15 x 30mm Mesh/25 x 2mm Elephant galvanised steel grating panels or similar approved system.
- R.04

Telescopic guardrail system with a fixing system that can be integrated with the existing gantry rail.
- R.05

Two new Dry Air Chillers to replace existing plantroom equipment .Final specification to be confirmed by ARUP/specialist subcontractor.
- R.06

Existing electrical trays to be retained and re-used for the proposed Dry Air Chiller equipment.
- R.07

Proposed 862mm wide galvanised steel step-over system, with nominal 220mm riser and 250mm going to comply with British standards.
- R.08

4 x 250mm Ø pipes with insulated outer.
- R.09

SHS 'U' shaped pipe support frames @5m ctrs. situated over the existing roof slab. The support frames are to be weatherproofed to mitigate the affects of any cold bridging,with new Trocal Single Ply Elastomeric Membrane used to match the existing system. All applications be in accordance with the manufacturers recommendations.
- R.10

Pipe support clamps over the SHS frame.
- R.11

New weatherproof enclosure to be constructed over the existing riser top. See sketch detail on 'A(47)01' for general principles.
- R.12

Alter existing louvered cowls to provide weathering to new pipes.

**RESIDUAL RISK**  
Wherever possible unnecessary risk is designed out of these proposals. Where residual risk remains this is assessed and identified on the relevant drawings with this symbol. Refer to the note and the relevant measures in the Health + Safety documentation

**01**

permanent edge protection required.

**02**

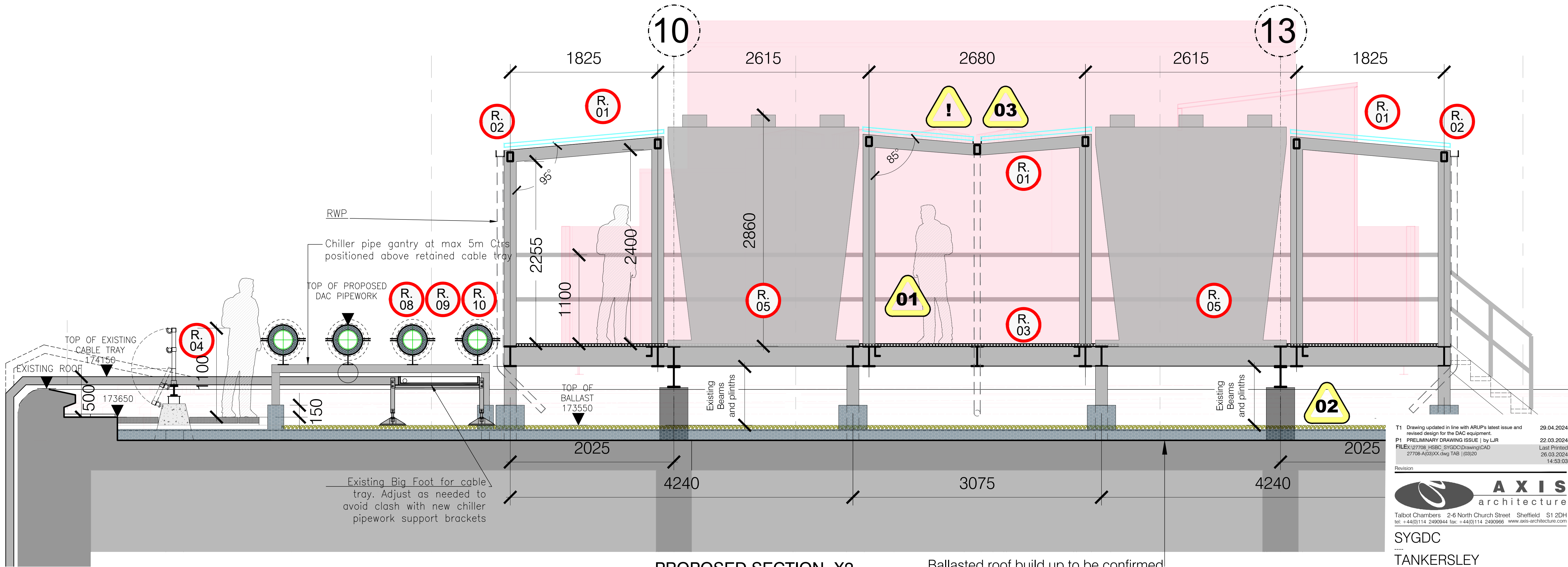
Re waterproof existing roof after plant removed.

**03**

Current drainage layout to be adapted for new rainwater goods.

**!**

Subject to planning approval



PROPOSED SECTION -X2  
(Section Through First Floor Roof)

Ballasted roof build up to be confirmed.  
Old Depth: Thickness & type of any insulation. Position of waterproofing understood to be Trocal Single Ply Elastomeric. However, is this positioned on top or underside of any insulation, full survey required to determine.

T1	Drawing updated in line with ARUP's latest issue and revised design for the DAC equipment.	29.04.2024
P1	PRELIMINARY DRAWING ISSUE   by LIR	22.03.2024
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PROPOSED FIRST FLOOR ROOF SECTION				
A1 Scale	A3 Scale	Date	Drawn By	RIBA
1:25	1:50	19.04.2024	AXIS	Chris / Linda
Project Number	Drawing Number	Revision		
27708	(03)20	T1		

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DO NOT SCALE for manufacture. Verify all dimensions prior to construction