

7/ Building 455

7.8 Energy and Sustainability

A large proportion of the scheme will see the refurbishment of existing buildings, material improvements to the thermal performance of the existing envelope will be made wherever possible ie. secondary internal thermal lining. Where buildings require re-roofing additional insulation will be added to improve performance.

All new built additions will achieve or exceed UK Building regulations Approved Document Part L requirements:

Envelope (Roof & Walls):

Enhanced U-values by increasing the envelope build-up allowing for greater insulation.

Floors:

High performance insulated ground floors slabs with enhanced U-value performance.

Windows and Doors:

High performance glazing systems optimising enhanced thermal performance whilst limiting solar gain.

Thermal Bridging:

Thermal bridging heat losses will be mitigated through enhanced construction detailing.

Air Tightness:

In line with current UK Building Regulations.

Ventilation:

Natural ventilation will be maximised throughout the development to reduce the need for mechanical cooling, elsewhere opening windows can be operated by the building users.



East Elevation



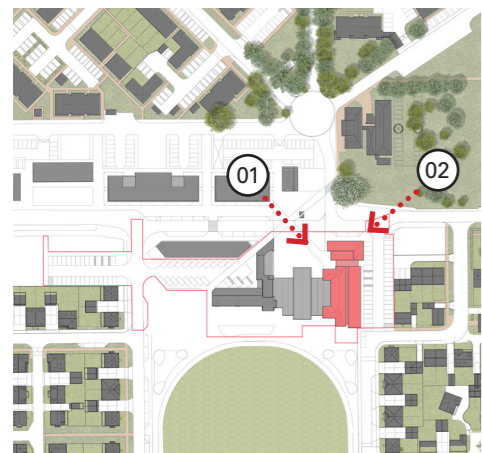
North-south section through Building 455



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01 Entrance to Building 455



02 East Approach



View from Village Green towards the Canopy Link, Building 455 and Building 457

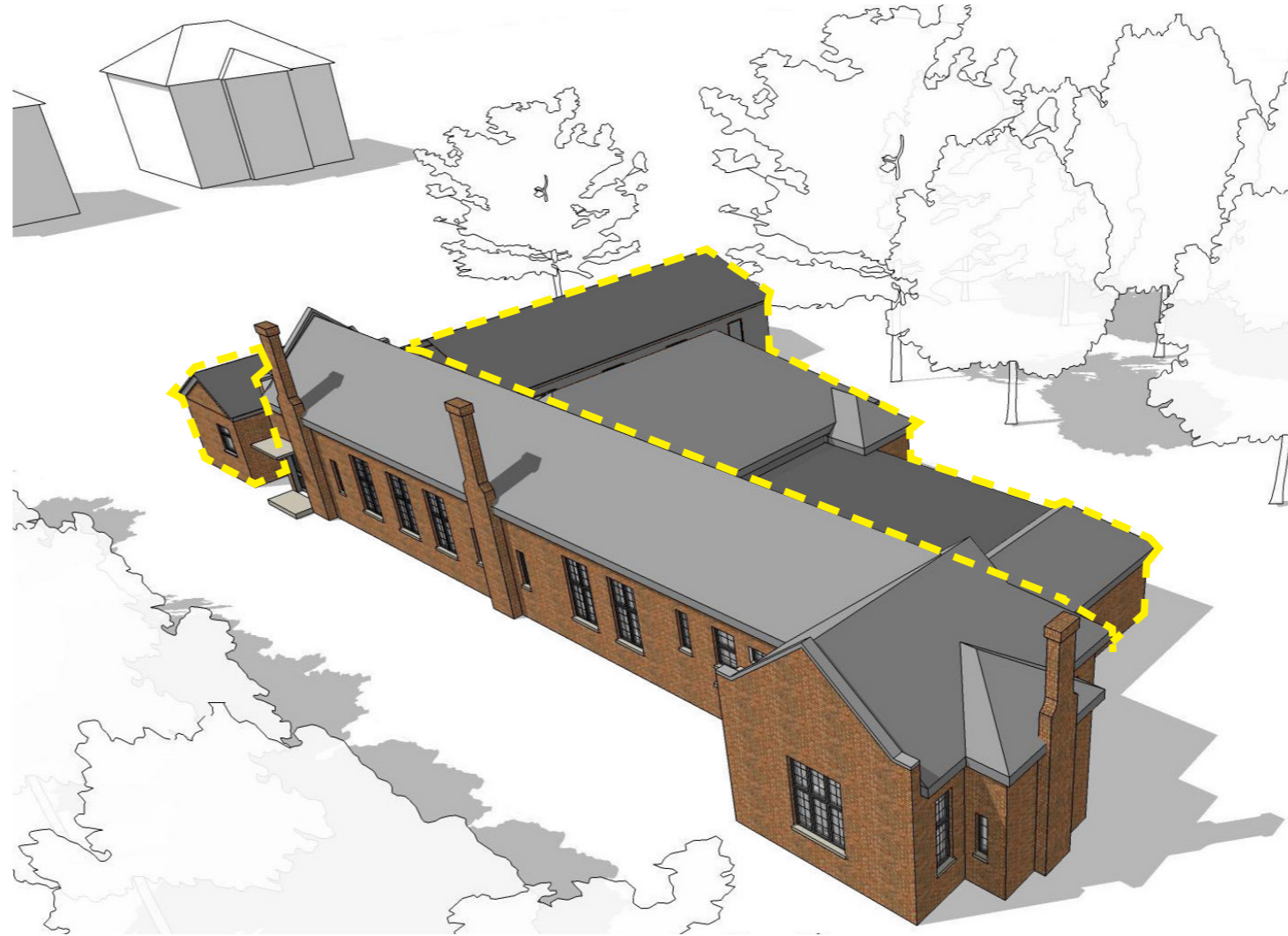



8/ Building 457

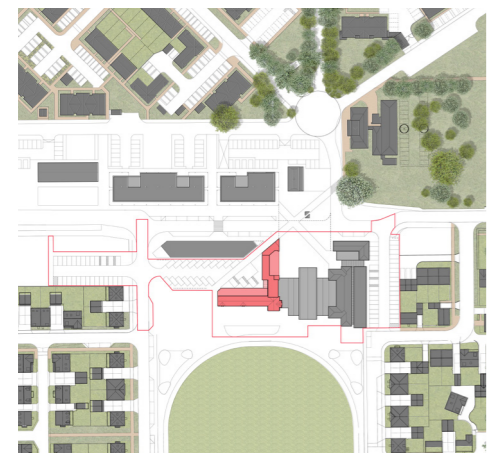
8.1 Refurbishment and Enhancement

Building 457 is a single storey linear building that was formally a USAF fast food restaurant. The building has been heavily adapted from an RAF sergeant's mess office use to accommodate a restaurant with no internal walls remaining in the main body of the building. A series of small rear outriggers would have originally accommodated the kitchen, toilets and stores, these have been modified significantly and the space between filled in to create further accommodation for cold stores. It is the rear appendages that are in a very poor state, far beyond their useful life. Demolition consent has been granted for partial demolition of the building (ref. 15/01849/F granted 17/02/2016).

The main southern body of Building 457 is characterised by tall windows and a series of tall chimneys and eastern end gable. The proposal is to maintain the building as A3 use and the new extension will provide further floorspace and the ancillary spaces to support this use.



 Proposed demolition works (some of these works have already been completed as per planning permission 15/01944/F)



Appendages at rear



Appendages at rear



Tall windows on southern elevation



Seating in the restaurant



Area lying between rear of 457 and Camp Road