

4

Design Strategy

4.3

Design Approach

4.3.4

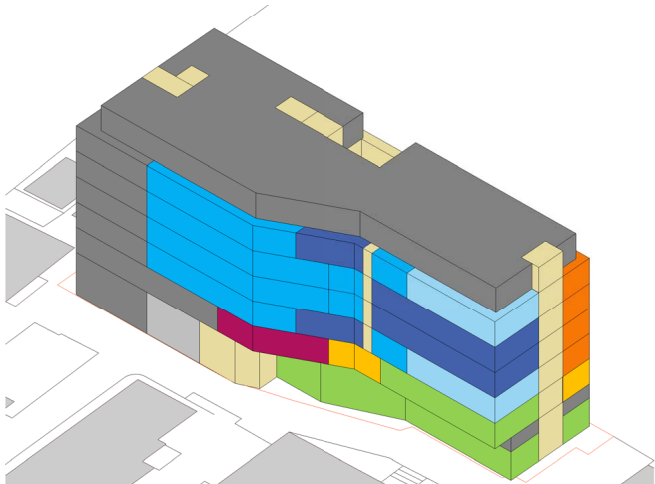
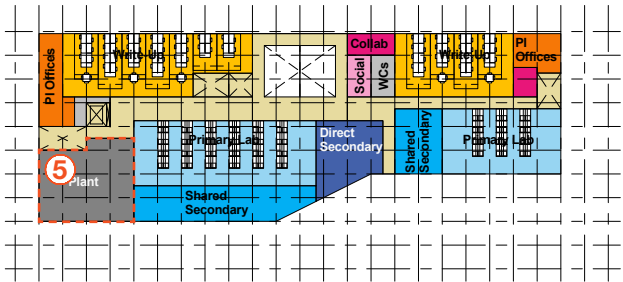
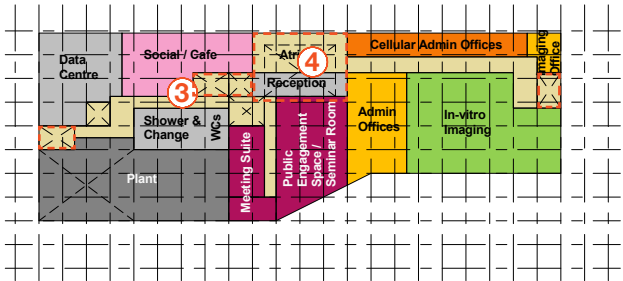
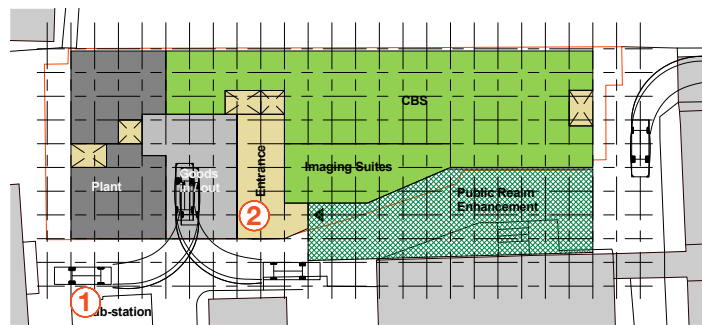
Option 02 Design Development

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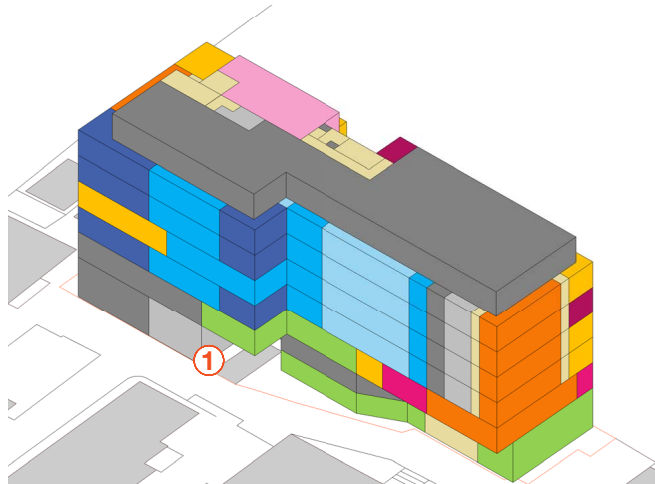
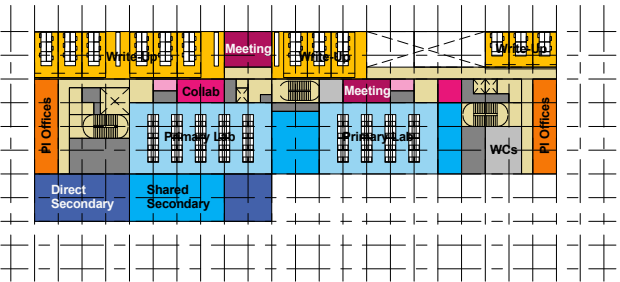
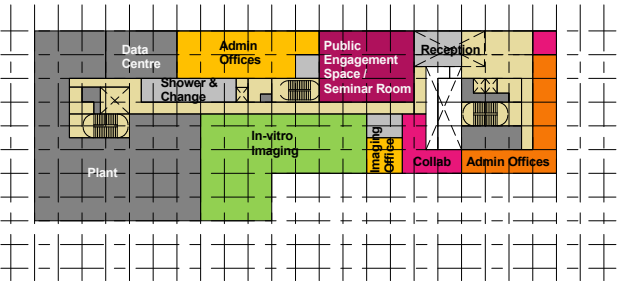
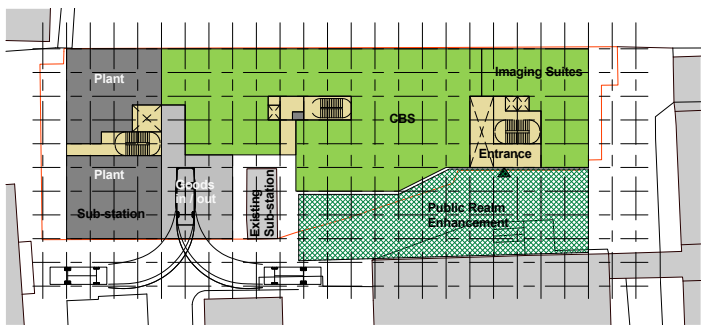
Alongside the principal design move of moving the atrium to the east edge of the building, development of this option modified the servicing and access strategies, mechanical engineering solutions and laboratory to write-up adjacencies.

- 1
- Due to constraints moving the sub-station, it is assumed until further progress on this matter that the existing sub-station will be maintained within the site.
- 2
- The entrance space didn't allow the LMS to have a front door/entry sequence which delivers the users into the main atrium space. The entrance was therefore moved to southern end of the plan.
- 3
- All of the circulation and servicing cores were developed identifying that they required larger areas. They were also repositioned to bring cores away from the edges both opening up the facade for views internally as well as eliminating potential blank areas of facade.
- 4
- The atrium became of a limited size due to the needs of the laboratories above which didn't allow for much visibility throughout the building. The atrium design was therefore re-thought and became a moving atrium along the east edge of the building.
- 5
- Due to the plant being enclosed in the plan, it would not be able to efficiently serve the building therefore the servicing strategy changed from on-floor servicing to a roof top strategy with risers for distribution.

OPTION 1A as presented on 08.09.17



Stage 01 OPTION 2



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Design Strategy

4.3

Design Approach

4.3.5

Options 01 & 02 - Ground Floor/ Entrance

Stage 01 Proposals

Ground Floor Options:

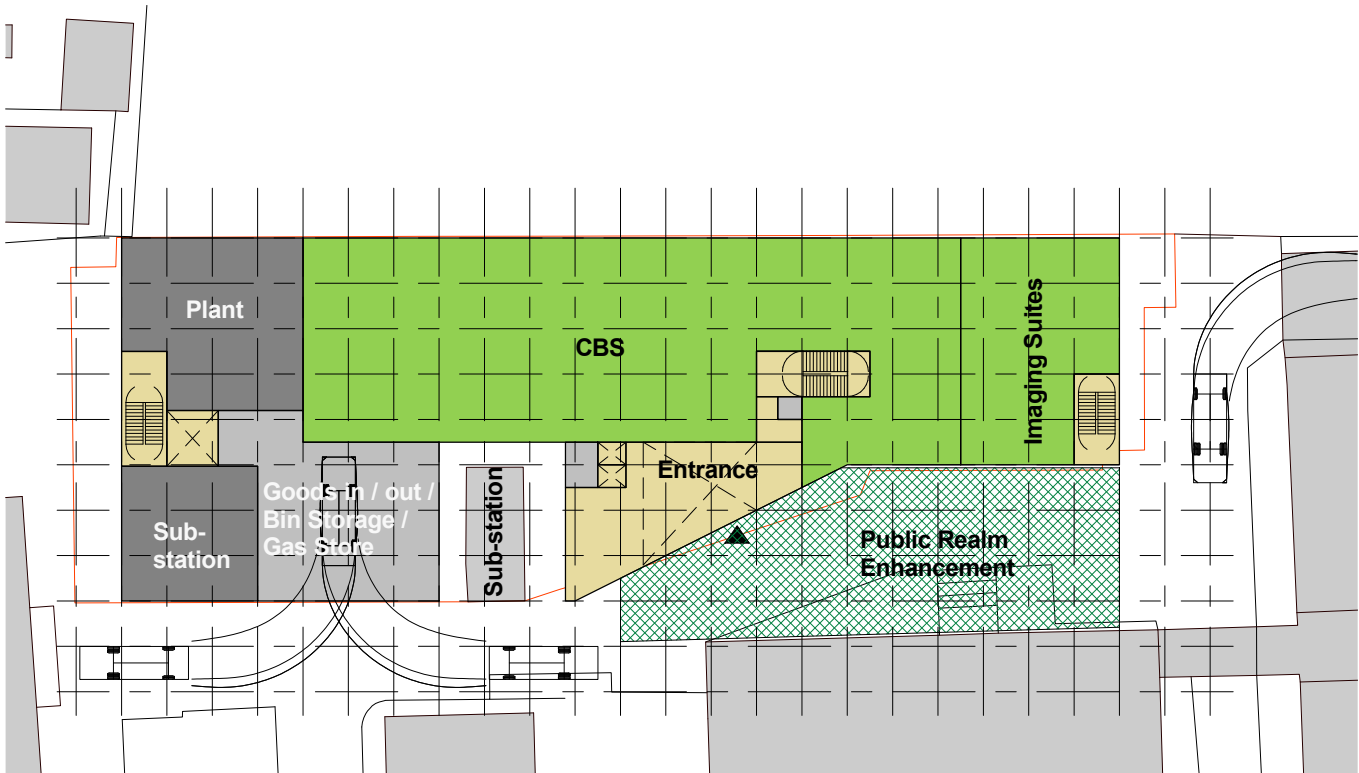
The ground floor is considered in both options to be a functional floor. It is beneficial for the servicing, security, and MEP distribution to have the CBS facility across a single floor with an interstitial plant space above. Along with ground floor critical plant space, goods in/ out, bottle storage, waste storage, vibration sensitive equipment (in-vivo imaging & CryoEM) and the existing and proposed substations, the available site area dictates the available space for the CBS facility. This is a reduced area when compared to the original ITT accommodation schedule. The imaging suite (in-vivo & CryoEM) is located to the south of the site so minimise the adverse effects on the highly sensitive equipment from plant space and the goods lift.

The functionality of the ground floor tends the design to a single solution. Whilst the entrance arrangement differs slightly to reflect the atrium/ reception areas higher up the building, the CBS and imaging suites remain relatively consistent in both current design options. Option 02 however, does benefit from a more direct relationship with the entrance of the Wolfson Education Centre and also allows for a larger area for public realm enhancement.

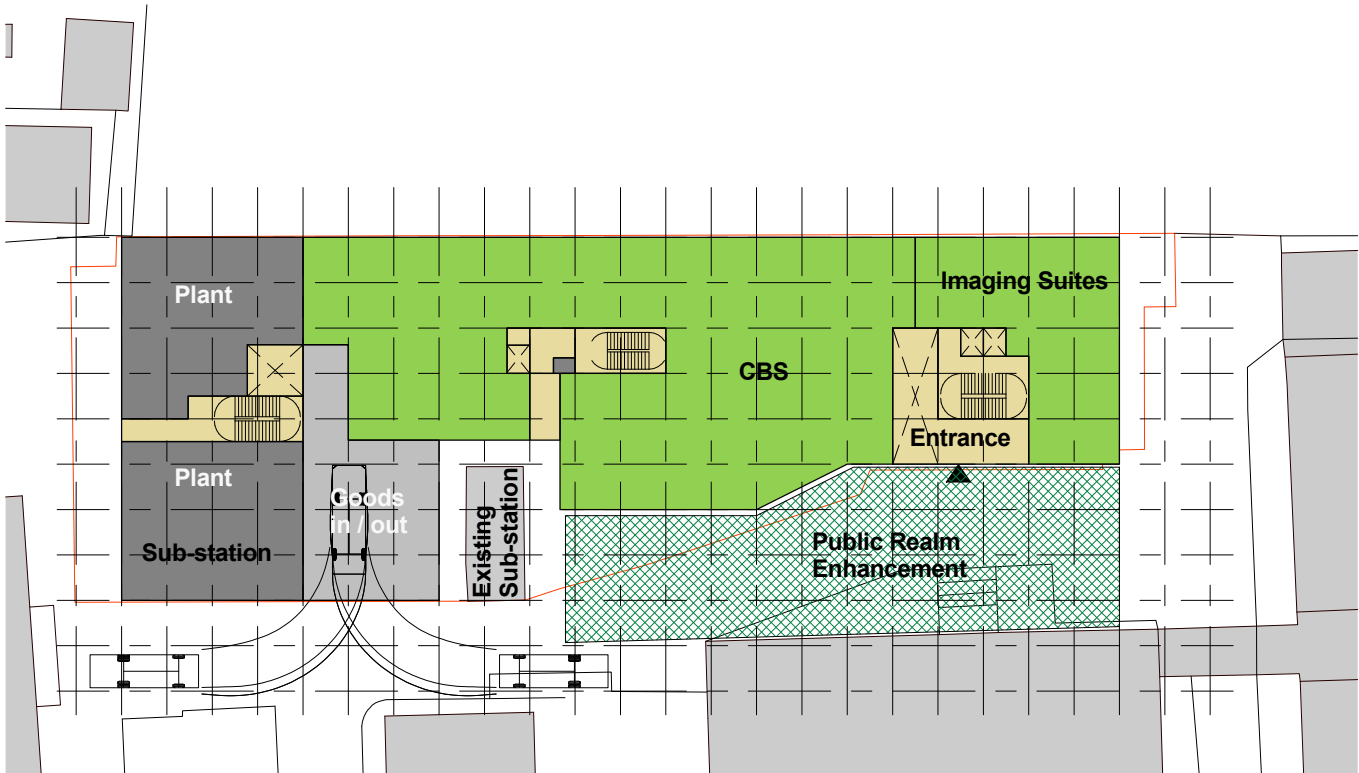
As the next section of this report will explore, the first floor is considered in both options to be the arrival point of the building. A small entrance foyer has been accounted for at ground floor, but will focus on guiding visitors and researchers to the first floor reception/ atrium.

A design provision for public realm enhancement has also been made. Whilst the area between the Wolfson Education Centre and the proposed LMS building is fairly constricted and constrained by the requirement for services and deliveries to the rear of the site, a shared surface presents an opportunity to create some public external seating, bike storage and a focal point of entry to the Institute.

It's worth noting that in both options the existing substation has been retained. The substation is disruptive to the ground floor and the extents of shielding are yet unknown. Should the substation be relocated the space would be given over to additional CBS space.



Option 01



Option 02

Pros:

- Relationship between entrance/ CBS and Imaging Suite
- Good lift adjacent to deliveries
- Plant distanced from sensitive imaging suite

Cons:

- Reduced CBS area compared to ITT accommodation schedule which is key a driver for the project
- Reduced public realm enhancement area
- No direct relationship with Wolfson Education Centre Entrance

Pros:

- Relationship between entrance/ CBS and Imaging Suite
- Good lift adjacent to deliveries
- Plant distanced from sensitive imaging suite
- Relationship with Wolfson Education Centre Entrance
- Increased public realm outside LMS

Cons:

- Reduced CBS area compared to ITT accommodation schedule