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Wythenshawe Hospital Emergency Department; Additional Theatres

Planning Ref: 128710/FO/2020

Bird Hazard Management Plan (BHMP)

Planning Condition 6

'Prior to first occupation of the building hereby approved, details of the measures to prevent birds being attracted to the site, roosting or loafing on the roof, shall be submitted to and approved in writing by the City Council as local planning authority. The measures shall include a bird hazard management plan (BHMP) and include the details for regular maintenance inspections of the roof to remove any detritus or any evidence of nest building.

Reason: In the interests of aerodrome safeguarding and to avoid the risk of any birdstrike or increase in the number of hazardous birds in the vicinity of Manchester Airport (MAN) that would increase the risk of a birdstrike to aircraft using the airport, pursuant to Core Strategy policy DM2.'

Introduction

The purpose of this report is to record the precautions and mitigation measures which have been considered as part of the proposal design, with a view to minimise the potential risk of birdstrike to aircraft traveling to and from Manchester Airport as a result of the development.

In the UK, it is recognised that a safeguarding zone defined as a 13km radius around aerodromes is required due to aircraft being in closer proximity to the ground during landing and take-off. The proposed site lies approximately 3.5km from the Runway 1 of Manchester Airport and is therefore within the zone, prompting Planning Condition 6 (refer to above) imposed by the Manchester City Council.

Site Location and Design

The site is located within the Wythenshawe Hospital estate in South Manchester, owned by Manchester University NHS Foundation Trust.

The proposed works comprise a roof extension providing an additional floor and additional roof top plantroom situated at first floor level on an existing area of flat roof over the recently completed Emergency Department (ED). Completed in 2018, the original development was designed to accept a future roof level extension. The current roof comprises single ply membrane over tapered insulation on a flat concrete slab. In anticipation of future use, the ground floor structural columns protrude through the slab in the form of numerous structural stubs (currently wrapped in insulation and weatherproofing).

A roof mounted chiller serving the ED is currently located on the area to be developed. This is to be moved as part of the works to the small resultant area of first floor roof to the far west between the two link corridors (Please refer to Fig 2). All other current plant is housed within the roof level plantroom.

The new development will use the same design philosophy, providing a similar plantroom adjacent to the existing. As the development is built on an existing flat roof (1:60), and the new proposals are also flat, there is no net increase in the roof area that may otherwise occur from development.

Access to the new roof is provided from the existing plantroom. The main roof is provided with 1100mm high parapets giving edge protection and provides means of escape from the plantroom. The plantroom roof itself does not require regular access and has minimal upstands.



Fig 1: View of existing roof

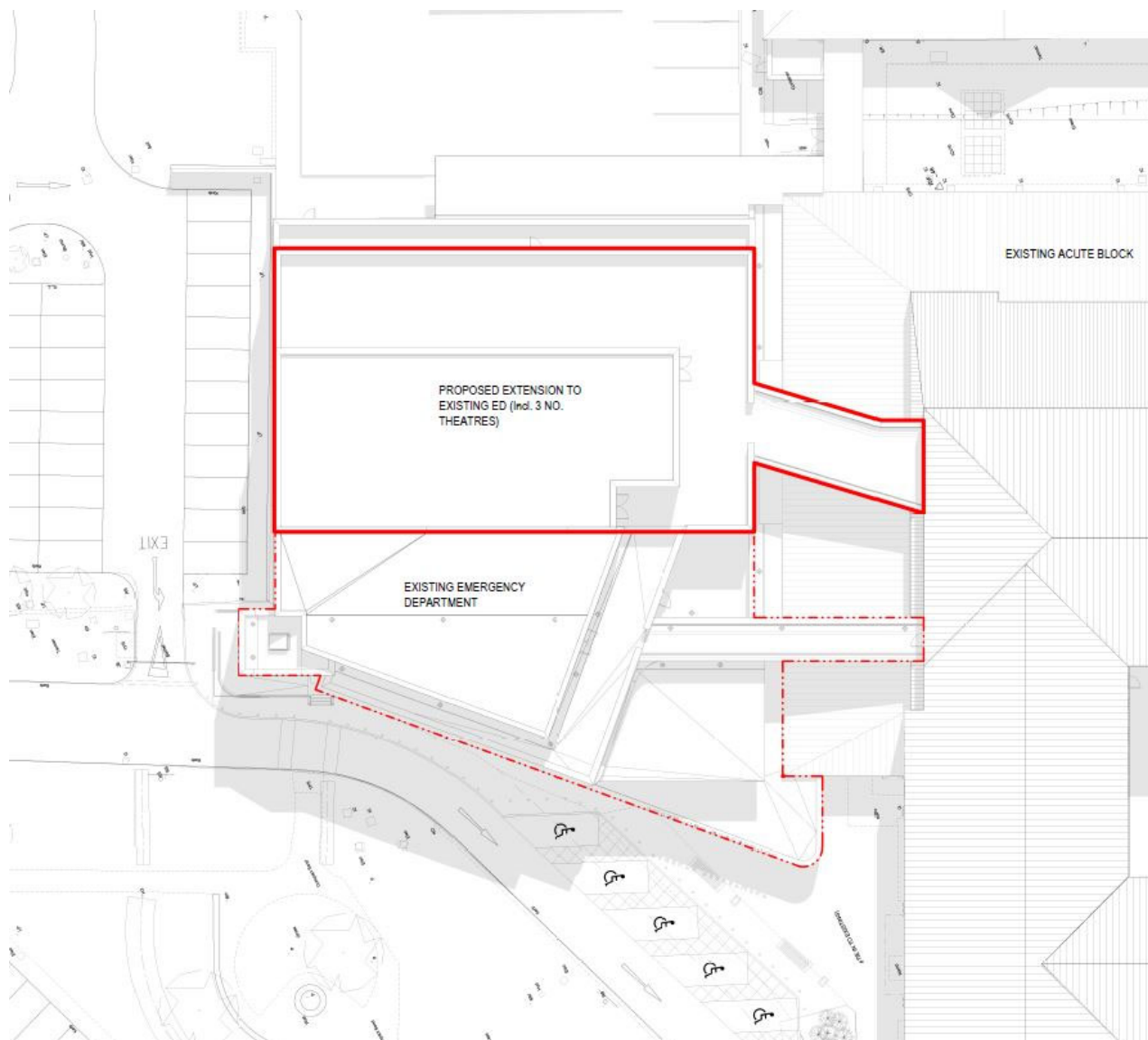


Fig 2: Roof Plan

Bird Risk Evaluation

A recent ecology report for the site is not available, however RSPB survey data identifies the common larger birds in the Greater Manchester include feral pigeon (*Columbia livia domestica*), wood pigeon (*Columbia palumbus*) and magpies (*Pica pica*). We are unaware if Manchester Airport were invited to comment during the planning application consultation process, and subsequently are not aware of any particular species which the airport believes to be of significant issue.

Whilst the proposed flat/level roof could be utilised as a habitat for breeding or loafing for birds, the proposals are no more encouraging to bird life than the existing roofscape. There is no evidence of bird roosting upon the existing roof since its construction.

Notwithstanding, the below measures of the BHMP should be implemented for the life of the building to ensure there is no increase in the risk of birds becoming a hazard to local aviation.

Bird Hazard Management Plan

The effective bird management measures listed below are examples of good practice. Many bird species are protected by law, as well as other restrictions particularly during nesting seasons. Exact methods used to control birds in relation to the proposed works should be defined by an appropriately qualified person to recognise the exact species and the actions required.

Bird Management Measures:

- 1) The roof should be constructed in such a way that main roofs are easily accessible to enable any potential nest debris, nest, or eggs timely identified and removed.
- 2) The roof should be checked on a regular basis (we suggest weekly assessment) to ensure birds nesting is not encouraged. This is particularly important during common nesting seasons, which in the UK is from early spring through to late summer.
- 3) Any birds found nesting during breeding seasons should be dispersed as soon as detected. The dispersal technique could be as simple as scaring by human presence, however a suitably qualified person should be consulted.
- 4) Should simple measures not be effective, or birds re-occupy the roof quickly after dispersal, further measures may need to be taken in the form of deterrent wires or netting to the roof.
- 5) Any protected species of birds or eggs will need to be dealt with under licence by an authorised license holder only. Commonly, the airport will hold licences to allow birds to be removed as a way to protect air safety.
- 6) No additional roof plant or structures should be introduced at a later date which may attract bird life to nest/roost/loaf. As example, plant equipment which could produce an area of shelter and/or source of heat should not be installed as this may be attractive for nesting birds.
- 7) It is good practice to keep a log recording the dates/times of inspections, who carried it out and general description, noting any evidence of bird presence.

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