Gateway 1 Planning Submission Fire Statement



# For

## The Extension at 40 Bernard Street.

## Reference: FSE2418

## Issue No: 01

## 09<sup>th</sup> April 2024

#### **Revision History**

Issue Number:	Issue Date:
01 – Fire Statement	09 <sup>th</sup> April 2024
Prepared by:	Contact:
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Approved by:	Contact:
Paul Currie	pcurrie@heliosconsultancy.com
BEng (Hons), PhD, CEng, MIFireE	07570 624 720

#### Client Details

Client:	Imperial Hotels
Client Address:	Tudehope Ltd, c/o Collier Inte
Project:	40 Bernard Street Extension

#### Validity

This report is produced on the basis of the information and experience available at the time of preparation. It is applicable to the above-mentioned project only in accordance with the client's instructions. It is only valid provided no other modifications are made other than those for which a formal opinion has been sought from and given by Helios Fire & Construction Consultancy UK.

The report outlines the principal opinion of Helios Fire & Construction Consultancy and is prepared based on information issued by other parties, this report should not be viewed as an approval of that information and no liability is accepted for its accuracy.

All legislation quoted is primarily concerned with life safety and property protection is not specifically considered although the fire protection provisions to be provided for the building will offer some degree of property protection.

Furthermore, other issues such as insurers' requirements, cultural heritage, environmental, or continuity issues have not been specifically addressed or included within the development of the fire safety strategy.



#### ernational, 50 George Street, London, W1U 7GA

### Fire Statement Gateway 1

Site Address	40 Bernard Street
Site Address Line 2	London
Town	
County	
Site Postcode (optional)	WC1N 1LE
Description of Development	The site comprises an existing office building which is undergoing refurbishment to the cores and fifth floor as well as a new extension to create a sixth
Author's Details	Richard Jones - BA (Hons), Grad.Dip, AlFireE. Richard is an Associate with the Institution of Fire Engineers with over 15 years experience in building control and a year working in fire consultancy. Richard has had significant previous experience in Building Control having worked within multiple sectors, including; residential (including HRRB), com and medical facilities at all design/construction stages from feasibility through to handover. Since switching to fire consultancy work in 2022 he has provided consultancy advice for compliance with HRRBs, Gateway 1 reports, risk assessments sectors.
Signature	Paparos
Approver's Details	Paul Currie BEng, PhD, CEng, MIFireE. Chartered Engineer (CEng registrant via Institution of Fire Engineers - IFE) and Member of the IFE, with over 25 years postgraduate experience in the design consultancy, risk assessment, structural and fire testing, CFD modelling, research and lecturing. Consultancy projects have included a number of private, public and commercial buildings including educational developments, healthcare facilities, resultancy projects grounds, and car parks.
	Lecturing experience includes teaching fire safety and fire engineering topics at the University of Central Lancashire and the School of Continuing and University of Hong Kong.
Details of consultations undertaker relating to the fire safety of the development.	Currently consultation with Building Control and Fire and Rescue service has not been undertaken.



xth floor. . ommercial, industrial, educational, retail, MOJ, MOD ents, fire strategy mark-ups and reports for various he field of fire safety engineering, encompassing; residential developments, offices, warehouses,

nd Professional Education (SCOPE) at the City

Site Layout Plan With Block Numbering.

[Attach - Consistent with other plans drawings submitted in connection with the application]



Figure 1: Overview of Site

The Principles, Concepts and Approach Relating to Fire Safety That Have Been Applied to the Development

Building Sche		ite Information			Duilding Inf	ermetien.		Decident Sefety Information	
Block Number	S Block Height (m) No. Storeys Above Ground No. of storeys including below ground level	ite Information Proposed Use	Location of Separate uses Within Block	Standards Relating to Fire Strategy	Building Inf Balconies	External Wall Systems	Evacuation Approach	Resident Safety Information Automatic Water Fire Suppression System (AWFSS)	Accessible Housing Provided
40 Bernard	Circa 23.4m (Level 09). Basement plus eight from ground floor including mezzanine between ground and first.	Existing basement car park and commercial units on the ground floor with offices above.	Existing basement car park. Two existing ground floor commercial units with mezzanines. Existing Offices from first to fifth floor with new sixth floor office extension.	ADB Volume 2 2019 incorporating 2020 and 2022 amendments. BS9999 2017 for details of the firefighting shaft.	No	<ul> <li>'As Built' strategy does not confirm existing wall build up but states insulation products etc. should be of limited combustibility e.g. Class A2-s1, d2 or better and external surfaces should be B-s3, d2 or better for surface spread of flame.</li> <li>New extension: <ul> <li>A2-s1, d0 or better for the insulation products etc.</li> <li>External surfaces B-s3, d2 or better for surface spread of flame.</li> </ul> </li> </ul>	Simultaneous.	No AWFSS provided.	N/A



Specific Technical Complexities	The building is not a relevant building as it does not contain any dwellings, however, a fire statement is required as part of the London Plan.
Specific technical complexities in terms of fire safety e.g., green walls and / or departures from information schedule above	The existing building is provided with an 'As-Built' fire strategy. This was provided by Nadim Choudhary CEng, Meng, FIMechE, MIFireE, MC 'As-Built' fire strategy throughout this report.
	As per the 'As-Built' fire strategy, the proposed evacuation process in the Helios fire strategy for the sixth floor extension and the core and fifth
	The existing fifth floor is over 18m in height and the new sixth floor will take the top floor height to over 23m. It is noted that the existing building shafts.
	It is proposed to renovate two of the existing stair cores into firefighting shafts. These will be the south and north-east cores. This will include re providing smoke control. Both of these cores will also have dry risers. The north-east core lift will be upgraded to a firefighting lift, however, it was of a firefighting lift as it is constrained by the existing site.
	Whilst the London Plan advocates the provision of evacuation lifts, the addition of new lift cores is not feasible. In this instance, two existing I Annex G of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire servi
	Currently there are no evacuation lifts or firefighting lifts provided. It is considered that upgrading the lifts to firefighting lifts (which can also be us than upgrading them to evacuation lifts. This is a significant improvement over existing arrangements and due to the constraints of the existing lifts are upgrading them to evacuation lifts. This is a significant improvement over existing arrangements and due to the constraints of the existing lifts are upgrading the upgrading the matching lifts are upgrading the upgrading the matching lifts are upgrading the upper upgrading the upgrading the upgrading the upper upgrading the upper upper upper upgrading the upper upp
	The fifth and sixth floors will be constructed as compartment floors. The 'As Built' fire strategy does not show compartment floors to the exist from the ground floor.
	The external wall construction for the new extension will be::
	<ul> <li>A2-s1, d0 or better for the insulation products etc.</li> </ul>
	<ul> <li>External surfaces B-s3, d2 or better for surface spread of flame</li> </ul>
	For more information on the fire strategy principles for the building, see the Helios Stage 2 fire safety strategy and 'As-Built' fire strategy includ
	Typical layouts for the fifth and sixth floors are provided below.



ICIBSE dated 23/12/22. Reference will be made to the

- fth floor refurbishment, is simultaneous evacuation.
- ing, although over 18m does not include firefighting

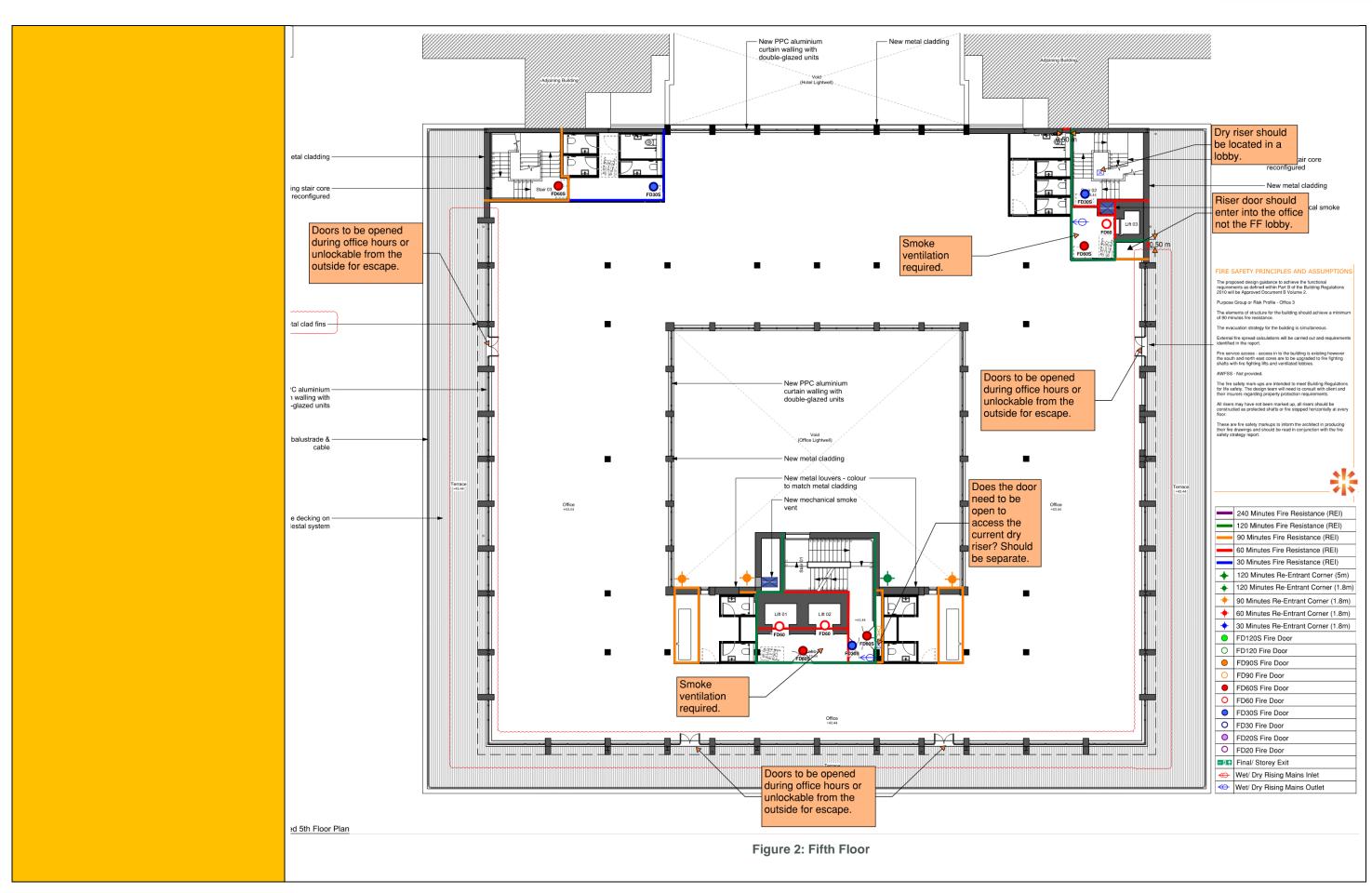
e replacing two existing lifts with firefighting lifts and it will not be able to meet the full size requirements

g lifts are to be upgraded to firefighting lifts. As per rvice arrive.

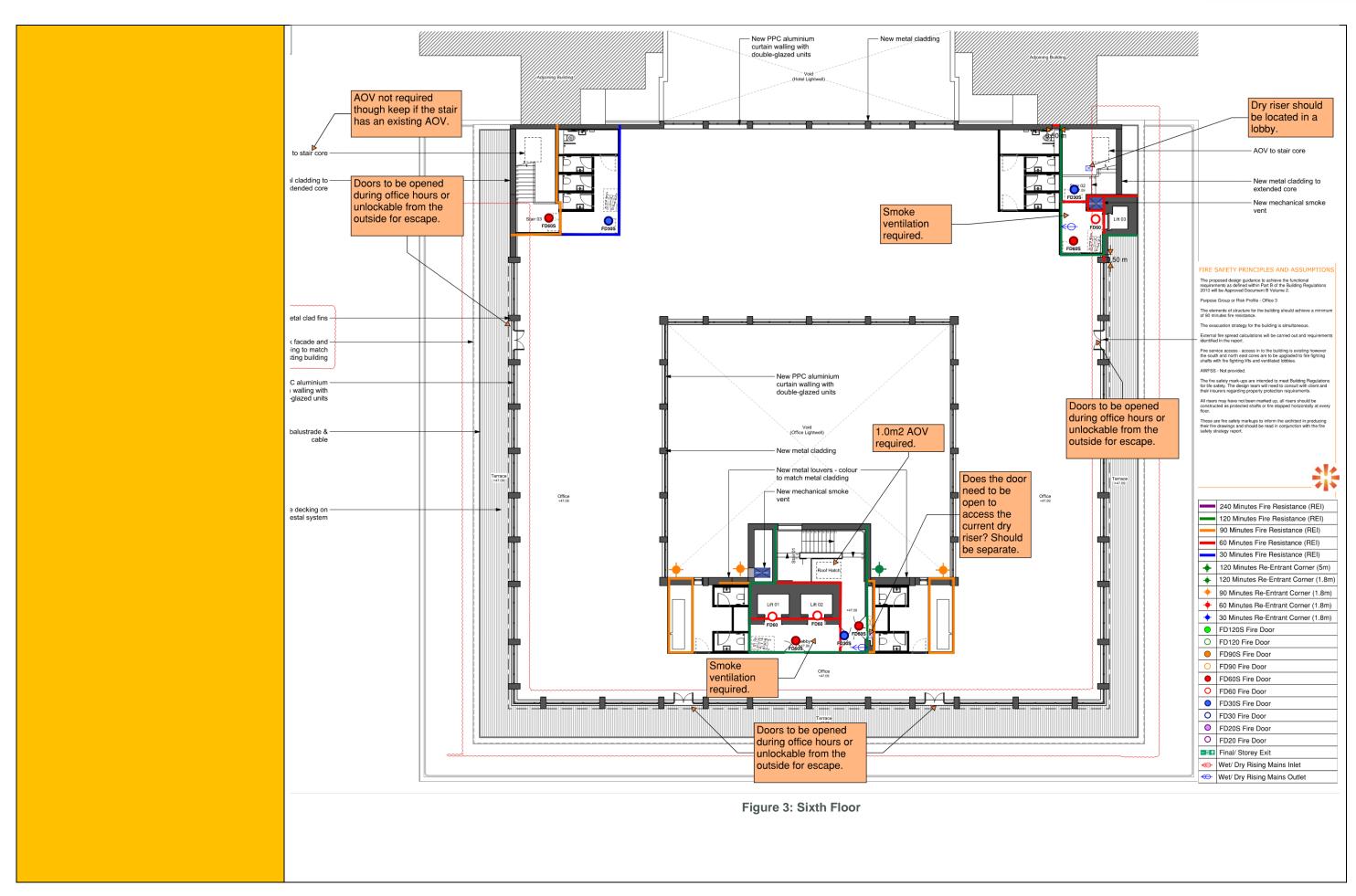
e used as evacuation lifts) provides a greater benefit ng building Helios believe this should be acceptable.

kisting building other than separating the basement

uded within the planning application pack.









Issues Which Might Affect the Fire Safety of	
the Development Explain how any issues which might affect the	The existing fifth floor is over 18m in height and the new sixth floor will take the top floor height to over 23m. It is noted that the existing buildin shafts.
fire safety of the development have been addressed.	It is proposed to renovate two of the existing stair cores into firefighting shafts. These will be the south and north-east cores. This will include a providing smoke control. Both of these cores will also have dry risers. The north-east core lift will be upgraded to a firefighting lift, however, it of a firefighting lift as it is constrained by the existing site.
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	Currently there are no evacuation lifts or firefighting lifts provided. It is considered that upgrading the lifts to firefighting lifts (which can also be than upgrading them to evacuation lifts. This is a significant improvement over existing arrangements and due to the constraints of the existing
	The 'As-Built' fire strategy includes that based on the height the building it should be provided with 90 minutes structural fire resistance. It is re resistance is formally assessed. The fifth and sixth floors will be constructed as compartment floors with 90 minutes fire resistance and all new resistance.
	The elevations for 5 <sup>th</sup> and 6 <sup>th</sup> floor have been assessed and the design team have been informed of the fire resistance requirements based on associated fire strategy reports.
Local Development Plan Policies – Fire Safety	Whilst the London Plan advocates the provision of evacuation lifts, the addition of new lift cores is not feasible. In this instance, two existing Annex G of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the fire served of BS9999:2017, in some cases firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be used for evacuation purposes under management control before the firefighting lifts can be u
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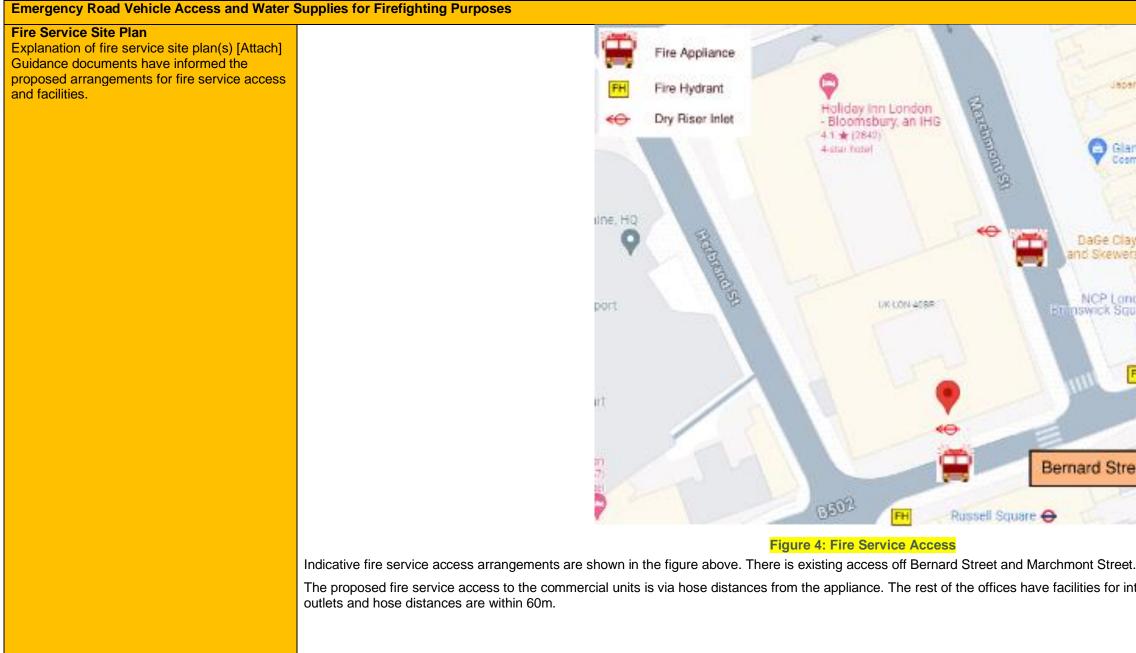
be used as evacuation lifts) provides a greater benefit ting building Helios believe this should be acceptable.

s recommended that the existing structural fire new structural works should achieve 90 minutes fire

on boundary distances. This is covered within the

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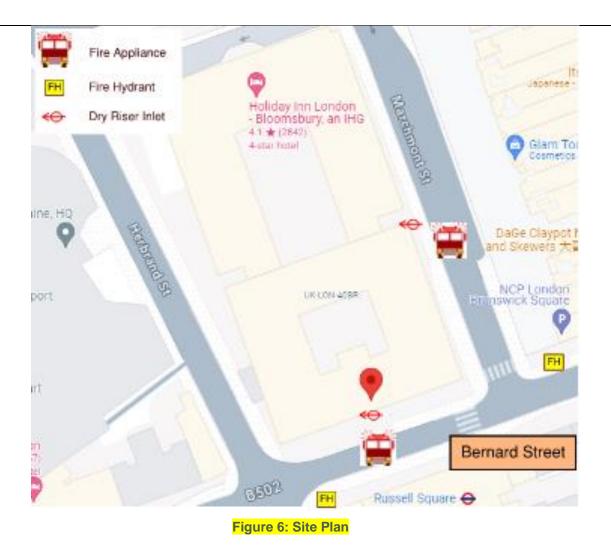
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		Figure 5: Fire S	ervice Access	
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#### Don't Know

Inserted Below



The figure above shows the fire service access to the buildings including indicative location of dry riser inlets. Further information is available in the Stage 2 fire strategy.

The location of assembly points should be determined by the site management team forming part of their fire risk assessment and fire safety management plan. The locations should take account of their management structure, resources, and local restrictions and if they have a current policy to adhere to. This should include:

- The locations should not be located where they may obstruct fire service operational personnel or their access to the development.
- They should be located a suitable distance from the building being evacuated.
- They should be suitably sized for the number of people who will need to use them.
- Consideration of how the evacuation process will be managed including communication method with people at assembly points.

There is potential for assembly points on site in different areas depending on the building evacuating, however, the management team are responsible for ensuring suitable locations are selected for the building.

