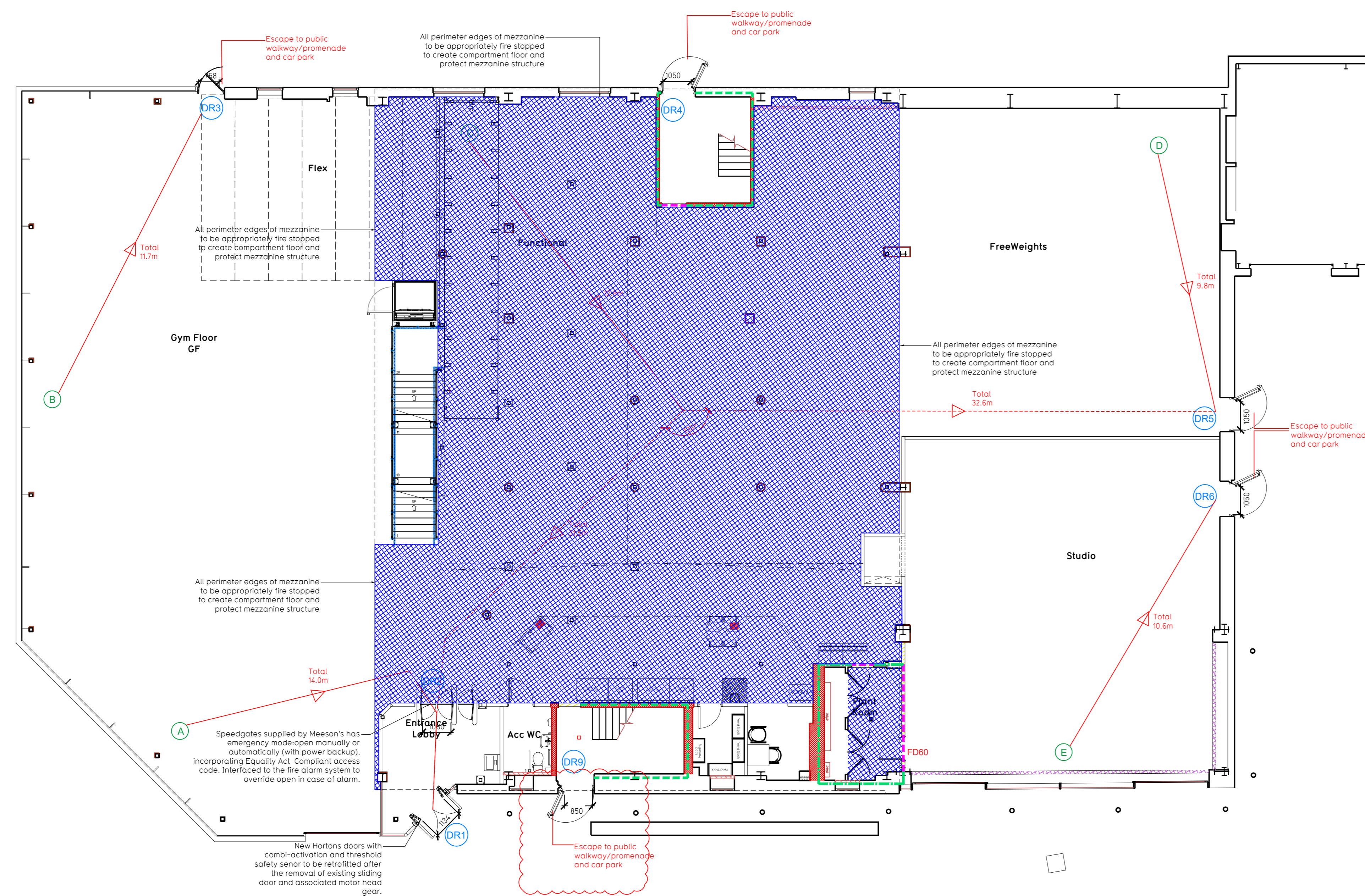
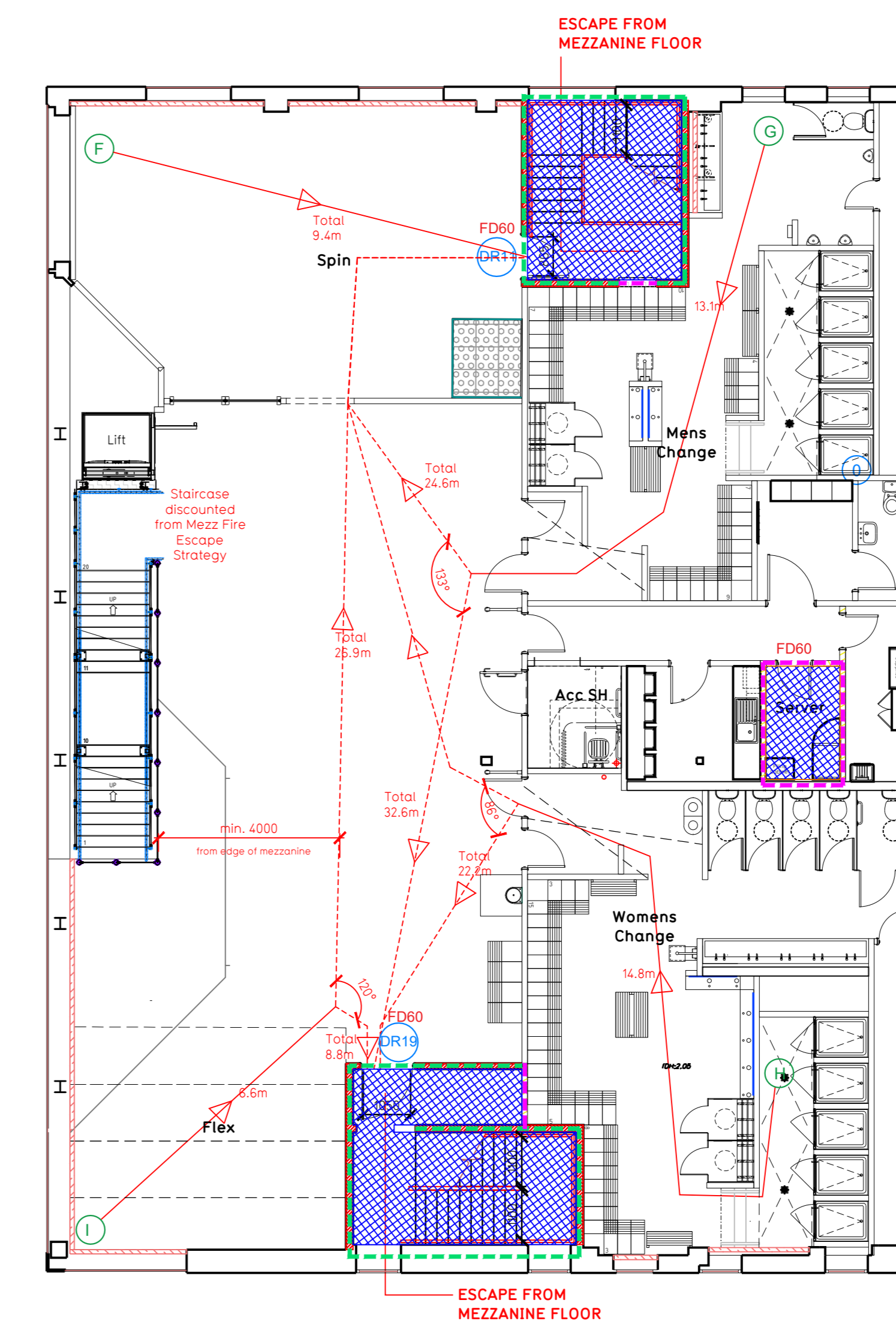


NOTE:

- Proposals must comply with all acoustic, fire & building regulation requirements
- No dimensions are to be scaled from this drawing. The contractor is responsible for checking all dimensions on site



Proposed Ground Floor Plan



Proposed Mezzanine Floor Plan

Escape Route Widths

In line with Section 2.3.8 of the Technical Handbook - Non Domestic, the aggregate unobstructed width in m of all escape routes from a room, or storey, should be at least 5.3 x the occupancy capacity of the room or storey.

Ground Floor

Aggregate Clear Opening Width of Escape Routes Calculation:
 Final Fire Exit DR2, clear opening width = 1050mm
 Final Fire Exit DR3, clear opening width = 750mm
 Final Fire Exit DR5, clear opening width = 1050mm
 Final Fire Exit DR6, clear opening width = 1050mm

Total Aggregate Width for Ground Floor 703mm (Less Largest Opening Width 1050mm from Fire Exit DR2) = 285mm
 Ground Floor Maximum Occupancy Capacity = 2858 / 5.3 = 539 people

Mezzanine Floor

Aggregate Clear Opening Width of Escape Routes Calculation:
 Storey Exit DR1, leading to Final Fire Exit DR8 at GF level = 850mm
 Storey Exit DR19, leading to Final Fire Exit DR9 at GF level = 1050mm
 Total Aggregate Width for Mezzanine Floor 195mm (Less Largest Opening Width 1050mm from Fire Exit DR9) = 85mm

Mezzanine Floor Maximum Occupancy Capacity = 85 / 5.3 = 198 people

Combined Occupancy Provision

Ground floor maximum occupancy: 200
 Mezzanine floor maximum occupancy: 100
 Total occupancy provision: 300

Based on PO existing occupancy data of comparable sites, the proposed max occupancy of a Pure Gym at this size will be unlikely to exceed 300 people, which is smaller than the max. no. of 327 persons (see calculation above) and is therefore thought to meet with the Section 2.9 of Technical Handbook - Non Domestic.

Escape Distance and Angle of Divergence

Position A

Total escape distance to nearest Final Exit DR1 = 14.0m thus complies

Position B

Total escape distance to nearest Final Exit DR3 = 11.7m thus complies

Position C

Total escape to nearest Final Exit DR1 = 31.5m
 Distance before divergence is 12.8m
 A, B, D to be $\geq (2.5 \times 12.8) + 0.5 = 32.1m$
 Drawn A, O, D = 130° thus complies

Position D

Total escape distance to nearest Final Exit DR5 = 9.8m thus complies

Position E

Total escape distance to nearest Final Exit DR6 = 10.6m thus complies

Position F

Total escape distance to nearest Final Exit DR1 = 9.4m thus complies

Position G

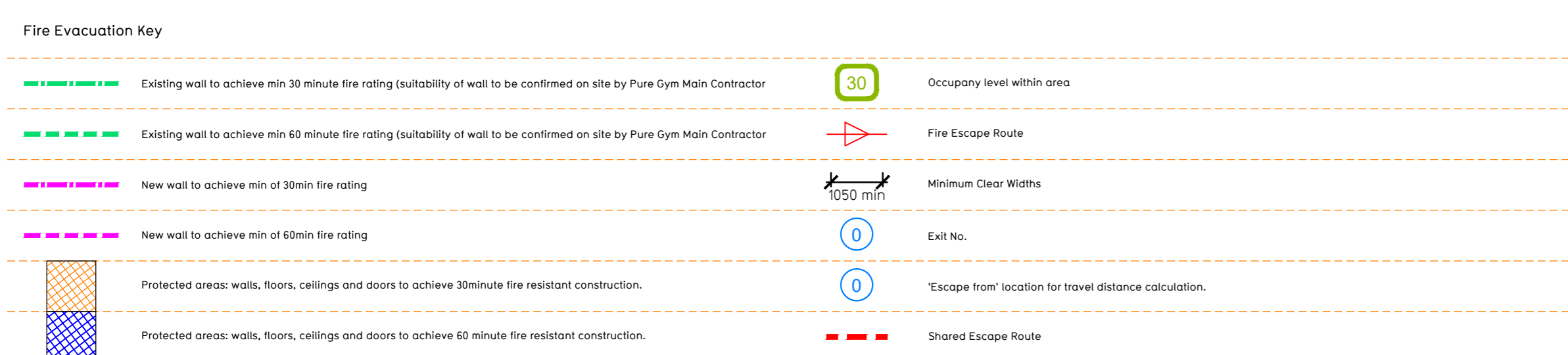
Total escape to nearest Final Exit DR1 = 24.6m
 Distance before divergence is 13.7m
 A, B, D to be $\geq (2.5 \times 13.7) + 0.5 = 34.2m$
 Drawn A, O, D = 130° thus complies

Position H

Total escape to nearest Final Exit DR19 = 22.2m
 Distance before divergence is 14.8m
 A, B, D to be $\geq (2.5 \times 14.8) + 0.5 = 37.0m$
 Drawn A, O, D = 60° thus complies

Position I

Total escape distance to nearest Final Exit DR19 = 8.8m thus complies



Fire Alarm:
 Fire Alarm designed and installed to BS 5819. Smoke & heat detection / emergency lighting by specialist. Please refer to M&E engineer's drawings / specifications, provided at Stage 2.

Escape Lighting:
 Emergency escape lighting designed and installed in accordance with BS 5266, Part 1. Please refer to M&E Engineer's drawings for final layout and specification provided at Stage 2.

Rev.	Date	Description	Checked	Drawn	Checked
01	04/10/21	Issue for Construction			

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