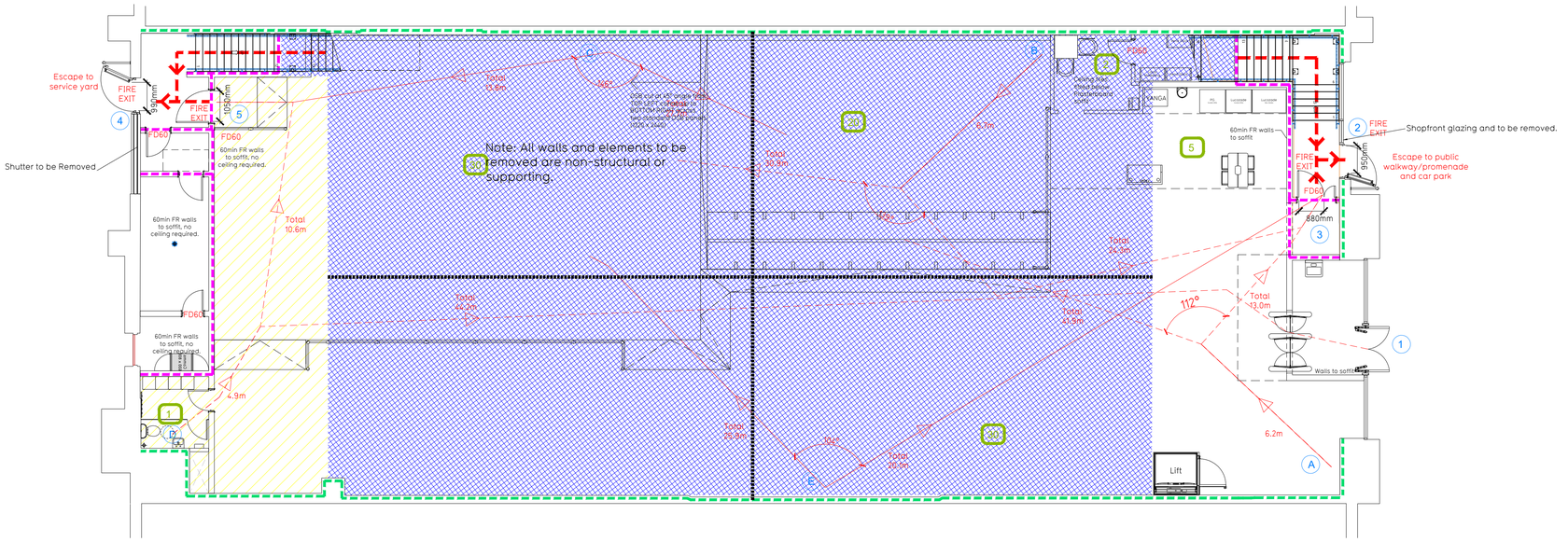
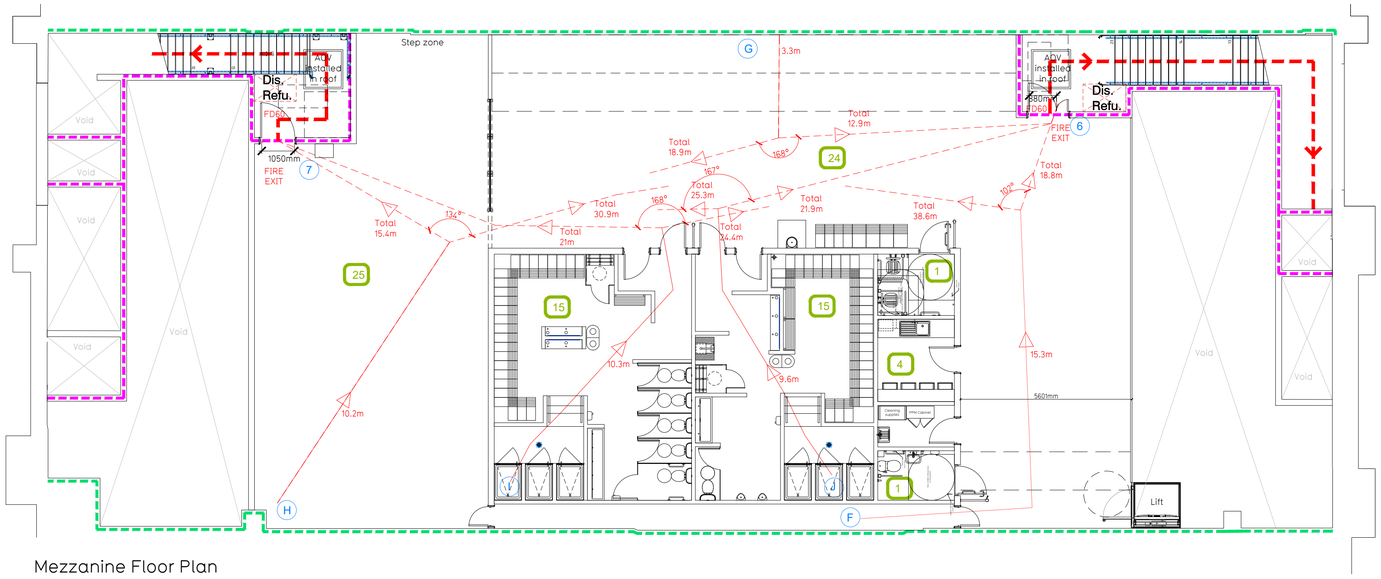


Ground Floor Plan
Scale - 1:100



Mezzanine Floor Plan
Scale - 1:100

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
- All proposals to be confirmed following site visit

Escape Route Widths

In line with Section 2.9.8 of the Technical Handbook - Non Domestic, the aggregate unobstructed width in mm 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:
Exit 1 = not classed as means of escape (not included)
Exit 2 = 950mm Serves Exit 3 and is wider (not included)
Exit 3 = 880mm
Exit 4 = 990mm
Exit 5 = 1050mm Serves exit 4 and is wider (not included)

Total Aggregate Width for Storey 1,870mm (Less Largest Opening Width 1050mm) = 880mm

Ground Floor Maximum Occupancy Capacity = 880 / 5.3 = 166 people

First Floor

Aggregate Clear Opening Width of Escape Routes Calculation:
Exit 2 = 950mm GF Serves Exit 6 and is wider (not included)
Exit 4 = 990mm GF
Exit 6 = 880mm
Exit 7 = 1050mm Serves Exit 4 and is wider (not included)

Total Aggregate Width for Storey 1,870mm (Less Largest Opening Width 990mm) = 880mm

First Floor Maximum Occupancy Capacity = 880 / 5.3 = 166 people

the maximum escape capacity of the combined floors = 332. The target occupancy of the gym is 170 people based on the sanitary provision, and is therefore thought to be meet with Section 2.9.8 of the Technical Handbook.

Escape Distance and Angle of Divergence

Position A
Total escape distance to Exit 3 and 2 = 13.0m
Distance before divergence is 6.2m
A.O.D to be > (2.5 X 6.2)+45 = 60.5°
Drawn A.O.D = 112° thus complies

Position B
Total escape to Exit 3 and 2 = 24.3m
Distance before divergence is 6.7m
A.O.D to be > (2.5 X 6.7)+45 = 61.75°
Drawn A.O.D = 139° thus complies

Position C
Total escape to Exit 3 and 2 = 27.7m
A.O.D to be > (2.5 X 27.7)+45 = 114.3°
Drawn A.O.D = 146° thus complies

Position D
Total escape to Exit 5 and 4 = 10.6m
Distance before divergence is 4.9m
A.O.D to be > (2.5 X 10.6)+45 = 71.5°
Drawn A.O.D = 77° thus complies

Position E
Total escape to Exit 3 and 2 = 20.1m
A.O.D to be > (2.5 X 20.1)+45 = 95.3°
Drawn A.O.D = 104° thus complies

Position F
Escape to Exit 6 and 2 = 16.6m
Distance before divergence is 15.3m
A.O.D to be > (2.5 X 15.3)+45 = 83.2°
Drawn A.O.D = 102° thus complies

Position G
Escape to Exit 6 and 2 = 12.9m
Distance before divergence is 3.3m
A.O.D to be > (2.5 X 3.3)+45 = 53.3°
Drawn A.O.D = 168° thus complies

Position H
Total escape to Exit 7 and 4 = 15.4m
Distance before divergence is 10.2m
A.O.D to be > (2.5 X 10.2)+45 = 70.5°
Drawn A.O.D = 125° thus complies

Position I
Total escape to Exit 7 and 4 = 20.7m
Distance before divergence is 10m
A.O.D to be > (2.5 X 10)+45 = 70°
Drawn A.O.D = 1° thus complies

Position J
Total escape to Exit 7 and 4 = 15.4m
Distance before divergence is 10.2m
A.O.D to be > (2.5 X 10.2)+45 = 70.5°
Drawn A.O.D = 167° thus complies

Fire Evacuation Key

- Existing wall to achieve min 30 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor
- Existing wall to achieve min 60 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor
- New wall to achieve min of 30min fire rating
- New wall to achieve min of 60min fire rating
- Protected areas: walls, floors, ceilings and doors to achieve 30minute fire resistant construction.
- Protected areas: walls, floors, ceilings and doors to achieve 60 minute fire resistant construction.
- 30 — Occupancy level within area
- Fire Escape Route
- 1050 min — Minimum Clear Widths
- 0 — Exit No.
- Shared Escape Route

Fire Alarm
LT Fire Alarm designed and installed to BS 5839. Smoke & heat detection / emergency lighting by specialist. Please refer to M&E engineer's drawings / specifications.

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

Rev	Date	Description	Drawn/ Checked

PROJECT TITLE
Inshes
Unit 2, Inshes Retail Park, Inverness, IV2 3TW

DRAWING TITLE
General Arrangement Floor Plans
Ground and Mezzanine Floor Plans

DRAWN / CHECKED	DATE	SCALE	JOB No.	DRAWING No.	Rev.
RSP/IR	09.08.21	1:100 @ A1	0999	003-FEP	

DRAWING PURPOSE
CONSTRUCTION — C00

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