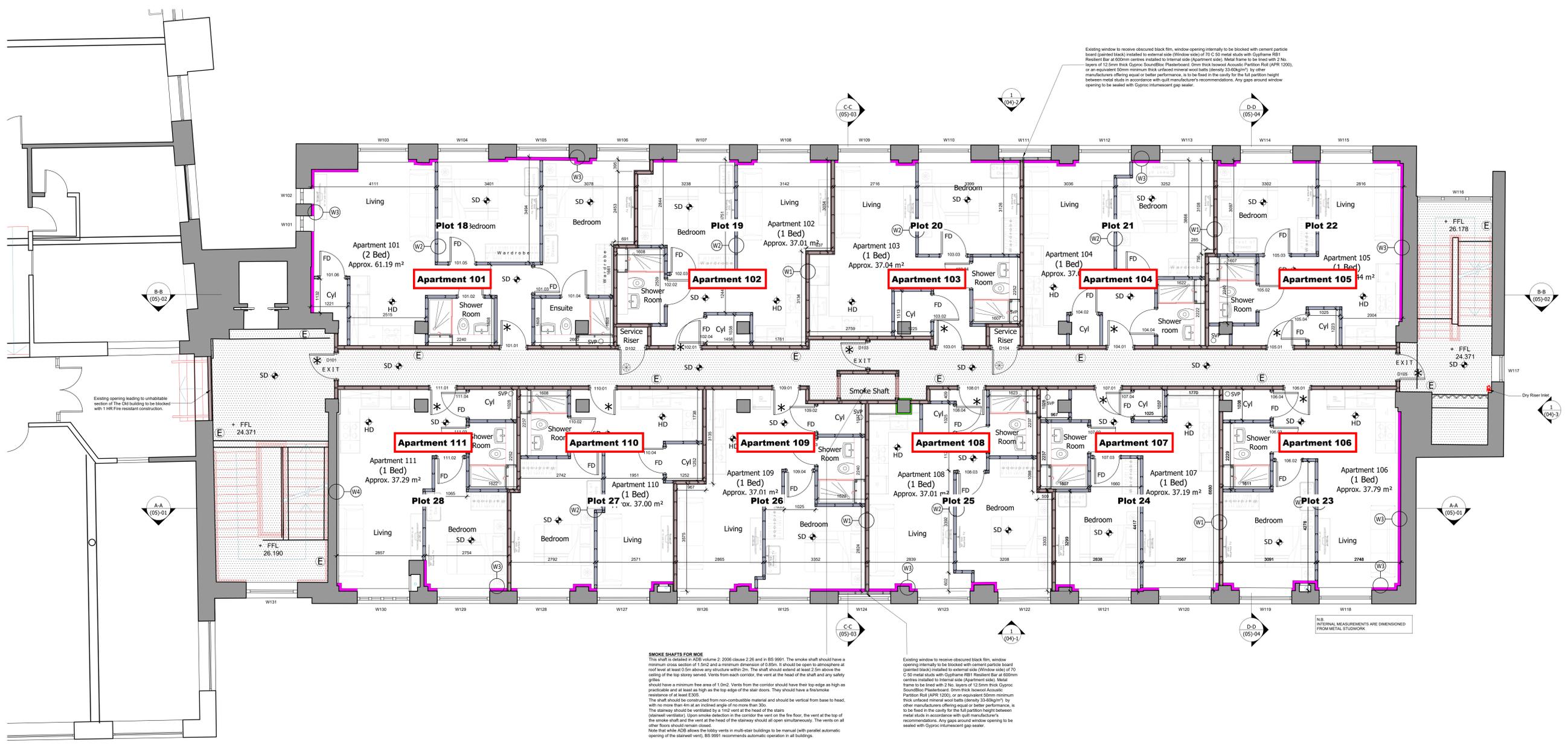


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1 PROPOSED FIRST FLOOR PLAN (LEVEL 01)  
Scale: 1:50

Key

**FIRE KEY**

- FD FD30 (30 minute rated fire door)
- FD30S (30 minute rated fire door fitted with self-closing device & smoke seals)
- FD30V (FD30 with vision panel)
- FD30L (keep locked)
- FD60 (keep locked)
- Exit door - complete with push bar and / or paddle release system
- FD 30 etc - complete with magnetic release catches
- # Break glass for FIRE ALARM

**FIRE KEY Cont.**

- Fire extinguisher position
- Emergency Lighting
- EXIT Exit Signage
- SD Smoke Detector
- HD Raising Heat Detector
- Primary Fire Escape Route
- Area of fire compartmentation / protected area

**NOTE**  
All electrical installation work to comply with the current edition of the IEE Wiring Regulations. Existing wiring to be checked & modified / upgraded as necessary.  
New electric consumer unit feed & individual meters to each room to be repositioned as & installed by electrician. Any YEDs, upgrade to be assessed and undertaken by main contractor. Contractor to allow for full management of installation.

**SEPARATING WALL CONSTRUCTION REF (W1):**  
METAL STUD FRAME CONSTRUCTION  
135mm overall thick partition between plasterboard external faces to be formed from Gyproc® Resilient® system or equal proprietary metal stud acoustic separating partition and plasterboard lining system by other manufacturers, comprising Gyproc® 10 S 50 °C Stud spaced at 600mm centres with Gyproc® R81 Resilient Bar at 600mm centres to one side. Metal frame to be lined with 2 No. layers of 12.5mm thick Gyproc® SoundBloc® Plasterboard, 20mm thick Insulated Acoustic Partition Roll (APR 1200), or an equivalent 50mm minimum thick unfaced mineral wool batts (density 33-40kg/m³) by other manufacturers offering equal or better performance, to be fixed in the cavity for the full partition height between metal studs in accordance with quilt manufacturer's recommendations.  
Lining on both sides are to comprise an inner layer of 12.5mm thick Gyproc® SoundBloc® plasterboard fixed vertically onto metal stud and an outer layer of 12.5mm thick Gyproc® SoundBloc® plasterboard fixed horizontally. Outer plasterboard layers are to be finished over with srm and plaster skim finish.  
Separating walls to be taken up to underside of kept existing floor soffit and fire stopped with Gyproc® Intumescent gap sealer or compressed mineral wool as required.  
Partition construction to achieve a sound reduction value of 62dB and a minimum one-hour (60 minutes) fire resistance.

**TREATMENT TO EXISTING RETAINED/KEPT INTERNAL PARTITION WALLS (W2):**  
Existing internal masonry partition walls where retained/kept are to be lined with an acoustic lining to be installed over the inside face of retained internal partition walls forming separating walls between apartments and the corridor i.e. on the apartment side face of the proposed separating walls.  
Acoustic lining to comprise 25mm x 47mm timber/ metal studs fixed to apartment side face of existing internal wall. Gyproc® R81 Resilient Bar at 600mm centres are to be fixed to timber/ metal studs, finished with 12.5mm thick Gyproc® SoundBloc® plasterboard & skim plaster.  
Fire Stopped:  
i) Ceilings - be 12.5mm plasterboard and Artek or skim and srm skim finish overhauled rodded.  
ii) Fire protection around steel beams to comprise 2 No. layers of 12.5 mm thick plasterboard, with staggered jointing between each layer, to either minimum 1 hour fire resistance, outward layer to be finished with srm plaster skim.  
Above Ground Drainage:  
All work to comply with Approved Document H11 and BS EN 12056-2: 2000.  
Waste pipe sizes to be:  
Washbasins and Biocets 32 diam with 75mm deep trap;  
Baths & Showers 40 diam with 50mm deep trap;  
Sinks, Washing Machines 40 diam with 75mm deep trap;  
WC Flt (min) 75 diam with 50mm deep trap.  
All traps to be accessible. Sanitary fittings at ground floor level may connect directly into the drainage system providing that the invert from the floor to the drain is not less than 1300mm. Branch discharge pipes to stacks to be at least 450mm above invert of all of drain.

**INTERNAL PARTITION WALLS (W2):**  
100 mm nominal overall thick comprising: 20mm Gypsol® S 50 °C Studs spaced @ 600mm centres and lined on both sides with 12.5mm thick Gyproc® WallBoard srm and plaster skim. Sound resisting partitions to have min 50mm thick acoustic quilt between studs (density in excess of 10kg/m³).  
Alternatively all internal stud partitions may be finished with 15mm thick Gyproc® SoundBloc® plasterboard and skim finish to both sides without sound attenuating quilt.  
All fixing methods are to strictly comply with Superior's Manufacturer's installation details.  
Thermal upgrade of external walls to achieve a U-value of 0.30 W/m²K or better.

**SMOKE SHAFTS FOR MOE**  
This shaft is detailed in ADB volume 2: 2006 clause 2.26 and in BS 9991. The smoke shaft should have a minimum cross section of 1.3m² and a minimum dimension of 0.85m. It should be open to atmosphere at roof level at least 5.0m above any structure within 2m. The shaft should extend at least 2.5m above the ceiling of the top storey served. Vents from each corridor, the vent at the head of the shaft and any safety grilles should have a minimum free area of 1.0m². Vents from the corridor should have their top edge as high as practicable and at least as high as the top edge of the stair doors. They should have a fire-resistance of at least E30S. The shaft should be constructed from non-combustible material and should be vertical from base to head, with no more than 4m at an inclined angle of no more than 30°. The stairway should be ventilated by a 1m² vent at the head of the stairs (stairwell vent). Upon smoke detection in the corridor the vent on the fire floor, the vent at the top of the smoke shaft and the vent at the head of the stairway should all open simultaneously. The vents on all other floors should remain closed. Note that while ADB allows the lobby vents in multi-storey buildings to be manual (with parallel automatic opening of the stairwell vent), BS 9991 recommends automatic operation in all buildings.

**APARTMENT ENTRY DOORSETS**  
All apartment entry doors allowing direct access in each apartment shall be certificated to meet the security requirements of British Standards publication PAS 24: 2016 (Enhanced security performance requirements for doorsets and windows in the UK, through compliance either:  
• via the traditional UK PAS 24 test methodology, or  
• via BS EN 1627: 2011 Resistance Class 3 (which references BS EN 1628, 1629 and 1630), with additional test criteria to address known criminal methods of entry within the UK (which are not covered for within the European Standards).  
Note: Doorsets satisfying other standards that provided similar or better performance are also acceptable and these include:  
• STS 201 Issue 6: 2013  
• STS 1175 Issue 7: 2014 Security Rating 2+  
• STS 202 Issue 3 (2011) Burglary Rating 2  
• LPS 2081 Issue 1 (2015) Security Rating 2E  
Each apartment entry door will be fitted with PAS 24: 2016 DCT hardware, this being include hardware with key operation from the outside with non-key lockable hardware on the inside e.g. thumb-turn in order for occupants to facilitate unlocking the door from the inner face without a key where the doors are the only means of escape from each apartment. The lockable hardware shall be via cylinder locks to BS 10K21 and certified to either BSI Kitemark / BM 750A24 Q-Mark.  
There will be a manual override facility internally on the front door to facilitate ease of emergency escape in an emergency from the building.  
All apartment entry doors must be for purpose and shall be certificated to the relevant material standard e.g. BS 84-2000 (steel) and meet the performance requirements of and certified to BS 8375 Part 1, 2 and relevant sections of Part 3.  
All apartment entry doors installed with SBD developments shall be certified under one of the following qualified third party Certification Authorities as previously described for Secured External Door EX201.  
Each apartment entry door shall be provided with door viewports/holes suitable for timber doors as a means of viewing catflap. Door viewers are to meet the requirements with Door & Hardware Federation Technical Specification 002 (TS 002) and must be fitted between 1200mm and 1500mm high from the bottom of each door.  
Each apartment entry door shall be fitted with a door chain or door limiter meeting the requirements with Door & Hardware Federation Technical Specification 003 (TS 003). All such devices to suit fitting to timber doors and be installed in accordance with the manufacturer's recommendations.  
All designed to BS 7550: 1997 and be BS1188A Certified.  
Each apartment entry doorset frame is to be mechanically fixed to the structure of the building in strict accordance with the doorset manufacturer's installation instructions.  
Lightweight steel twin stud framed separating/partition walls are to incorporate resilient layers to reduce the risk of airborne breaking through the wall and accessing the locking system for each apartment entry door. The resilient layer should be expanded metal or similar resilient material being plasterboard lining. This resilient layer should be to the full height for each apartment entry door and extend onto 600mm either side of each apartment entry doorset.  
Each apartment entry door is to be a 30-minute (half-hour) fire rated doorset certified under BWF CERTIFIRE Scheme comprising a door leaf, a door frame fitted with intumescent fire seals, and fire rated ironmongery all having the same minimum fire rating in order to maintain the overall fire integrity. All entry doors are to be fitted with self-closing devices.

**NEW FIRE RATED DOORSETS**  
New and replacement fire rated doorsets are to be certified under BWF CERTIFIRE Scheme as offering either at least 30 minutes (half hour) or 60 minutes (one hour) where noted.  
Each fire-rated doorset is to consist of a door leaf, a door frame fitted with intumescent fire seals, and fire rated ironmongery having the same minimum fire rating in order to maintain the overall fire integrity.  
Intumescent fire seals are to be fitted in a continuous uninterrupted groove into the entire frame where possible or in the head and stile of the door.  
Where smoke seals are needed in addition to fire seals, these need to be intumescent fire seals fitted with integral nylon pile brush strips appropriate to the required fire rating of the doorset.  
Vision panels are to be fitted with glass panes offering at least the same fire resistance and integrity as the fire rating for the doorset.  
Essential ironmongery for all doors to include hinges, door closing devices, locks and latches all manufactured to have a minimum fire rating equal to that for manufactured both fire-rated door leaf and door frame.  
Half-hour rated fire doorset  
30-minute rated fire doorsets (FD30) are to have timber doors at least 44mm thick in unglazed timber frames. Intumescent fire seals fitted into doorsets are to be at least 15mm x 4mm in size.  
Half-hour rated fire doors with vision panels are to be glazed with either Georgian wired glass or a proprietary fire protection glass offering at least 30 minutes fire integrity (E) as advised by Building Control, to BS EN 13501-2 e.g. Pilkington Pyrostop or equivalent by other glass manufacturers offering the same performance.  
All half-hour rated ironmongery including fire door hinges may be in brass or stainless steel Grade 11 to BS EN 1953:2002. At least 3 No. hinges must be used for each door.

N.B. Upon completion, Contractor to undertake compartment sound testing between party walls & floors as required under Part C of Building Regulation.  
N.B. Upon completion, Contractor to arrange compliance sound testing to ensure compliance is achieved.

N.B. Prior to commencement, Contractor to arrange for the completion sound testing to establish required level of sound insulation between floors to achieve compliance as required under Part E of Building Regulation.  
N.B. Drainage design layout to M & E Engineer's details.

N.B. Prior to commencement, Contractor to arrange for SAPS calculations to be done.

Rev	Description	Date	Author	Checked
P1	Apartment numbers & door numbers updated following Client's comments	08.12.22	JA	JC
P4	Window opening blocking note added to window schedule drawing	07.12.22	JA	JC
P5	Drawing updated to suit comments made in Fire Solutions Document	30.11.22	JA	JC
P2	Position & handling of Cyl cupboard & entrance doors updated by 1103 during DTM	25.11.22	JA	JC
P3	Final preliminary drawing	11.11.22	JA	JC

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Project Address:  
The Old Building,  
41 Great Horton Road,  
Bradford BD7 1AH

Client: City Wide

Status: Preliminary

Project: The Old Building

Title: Proposed First Floor Plan (Level 01)

Scale at A0: Drawn JA  
1: 50

Date: 11/11/2022 Checked JC

Drawing No: P00056 - A/03/01-03-P5 Revision

