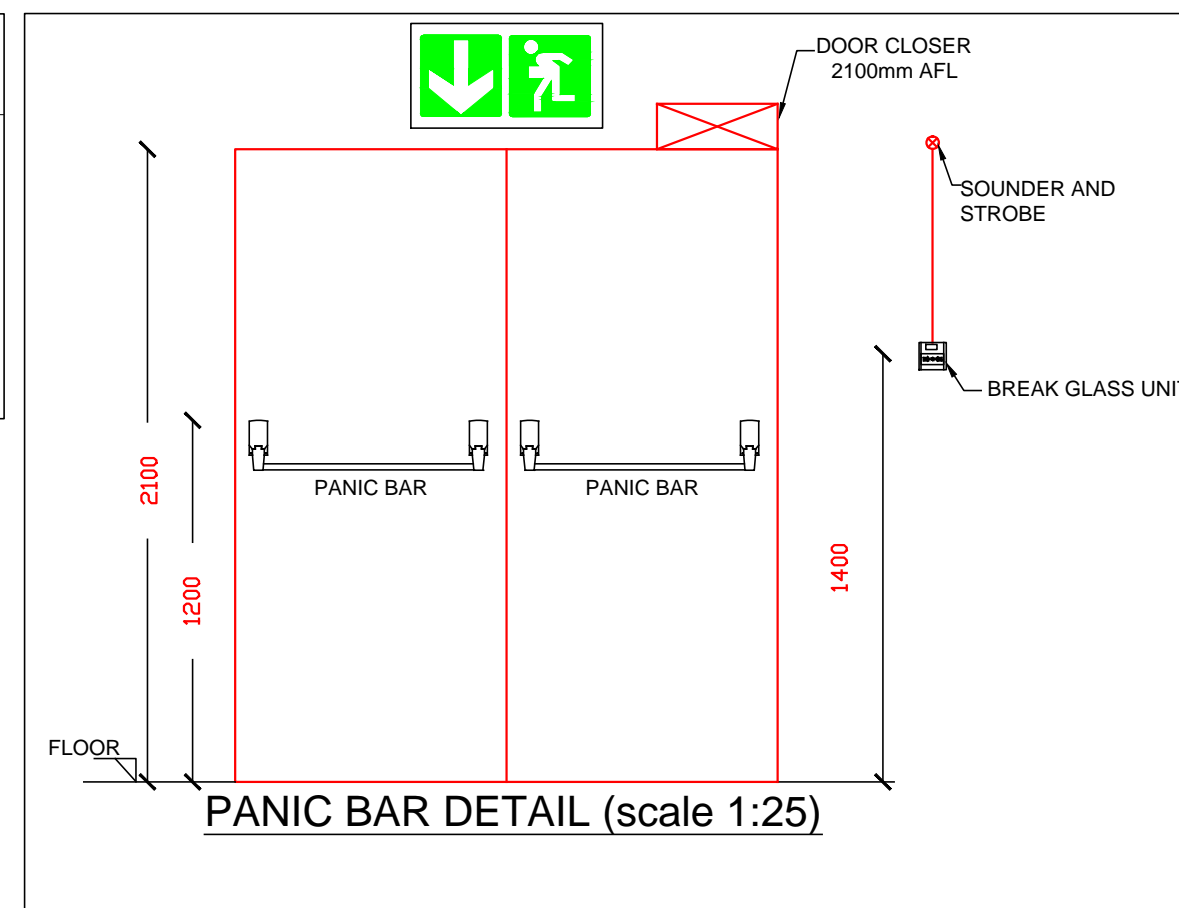


Diagram illustrating a typical fire sealing detail for 1-hour fire rated walls (scale 1:20). The detail shows a cross-section of two walls meeting at a joint. The walls are labeled "FIRE ESCAPE STAIRS" and "WALKWAY PASSAGE". The joint is labeled "POLYURETHANE JOINTING" and "INSULATED ROCKWOOL". The walls are labeled "3mm PLASTERBOND 125 DE SIMILAR APPROVED FIRE RETARDANT PLASTIC RESILANT ONE SIDE ONLY". The walls are labeled "CONCRETE SOFFIT".



**PORTABLE FIRE EXTINGUISHERS**

FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SABS 810.

ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON WOODEN BACKING BOARDS.

**FIRE HOSE REELS**

FIRE HOSE REELS SHALL CONFORM TO SABS 543.

ALL FIRE HOSE REELS SHALL BE COMPLETE WITH 30 METERS OF HOSE AND SHALL HAVE A MINIMUM FLOW RATE OF 0.5 l/s AT 300 kPa.

**FIRE HYDRANTS**

FIRE HYDRANTS SHALL COMPLY WITH SABS 543 AND HAVE A MINIMUM FLOW RATE OF 20 l/s AT 300 kPa.

**PIPING**  
NO PIPEWORK TO BE EMBEDDED IN SCREED OR CONCRETE FLOORS.  
ALL PIPEWORK SHALL CONFORM TO SABS 62 (STEEL, MEDIUM

THE DISTANCE BETWEEN PIPE SUPPORT BRACKETS FOR THE HORIZONTAL & VERTICAL PIPEWORK, SHALL NOT EXCEED THE FOLLOWING:	
NOMINAL DIAMETER	MAXIMUM SPACING
< 65 MM	4M
> 65MM <100MM	6.1M

PIPING SHALL BE PROPERLY CLEANED OFF SITE, FROM RUST & LOOSE MILL SCALE WITH A HARD WIRE, & DECREASED PRIOR TO APPLICATION OF A RED OXIDE PRIMER.FINAL COATS OF PAINT TO BE 2 OFF SIGNAL RED, HIGH GLOSS ENAMEL TO SABS 630. ALL BRACKETS, SUPPORTS & FITTINGS TO BE GALVANIZED. ALL SCREWED JOINTS TO COMPLY WITH BS 21 OR SIMILAR. SEALING OF JOINTS WILL BE WITH HEMP, STOGG OR PTFE TAPE, HYDRAULIC PRESSURE TESTING SHALL BE DONE TO 15 BAR FOR A PERIOD OF 24 HOURS.

**SYMBOLIC SAFETY SIGNAGE**

SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SABS 1186 PART V AND SHALL BE OF THE PHOTOLUMINESCENT TYPE.

SIGNAGE SHALL BE INSTALLED SUCH AS TO CLEARLY INDICATE THE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES.

EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE STAIRS.

SIGNAGE ON DRAWING IS AN INDICATION OF SIGNAGE REQUIRED.

FINAL SIGNAGE TO BE DETERMINED ON SITE.

ADDITIONAL SIGNAGE TO BE ADDED SHOULD IT BE REQUESTED BY THE LOCAL AUTHORITIES.

FINAL FIRE SIGNAGE IS TO BE DETERMINED ON SITE WITH THE COUNCIL'S FIRE OFFICER.

**FIRE DOORS**  
FIRE DOORS OF THE RATING AND WIDTH AS INDICATED ON THE  
DRAWINGS, SHALL BE INSTALLED AND SHALL COMPLY WITH SANS 1253.  
ALL FIRE DOORS TO BE FITTED WITH SELF CLOSING MECHANISMS

**FIRE ALARM / DETECTION**

FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10139.

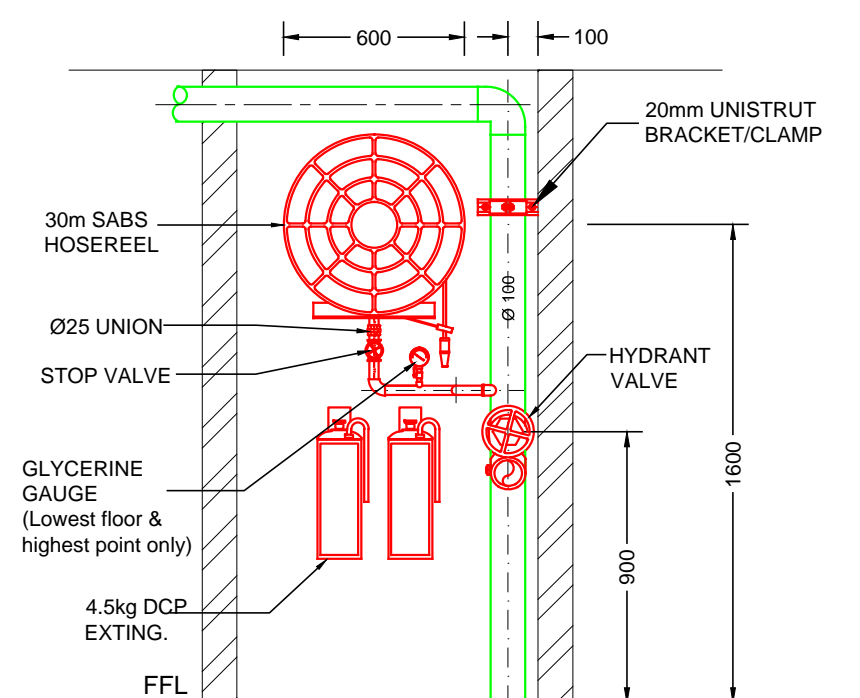
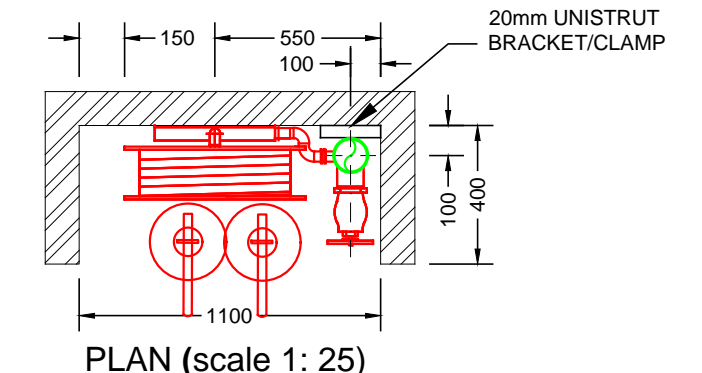
**ESCAPE DOORS**  
ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE  
IRONMONGERY.

**FIRE ESCAPE ROUTES**

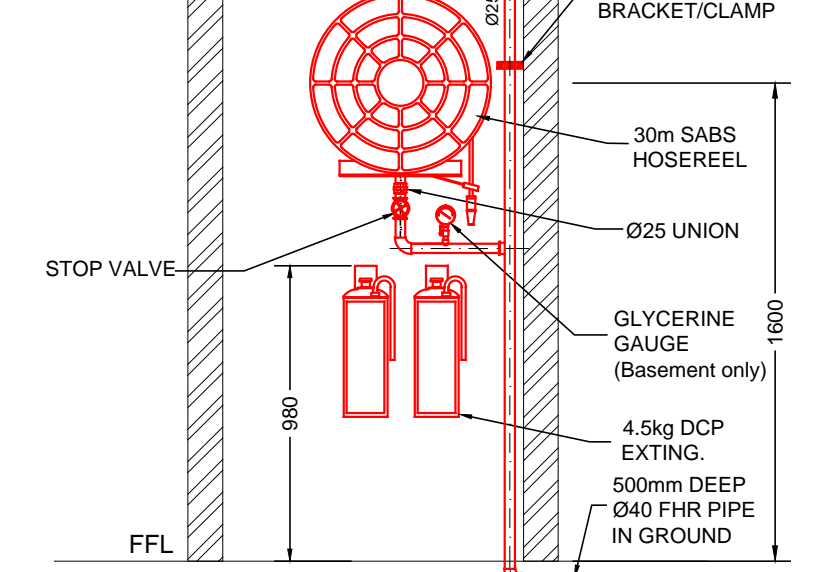
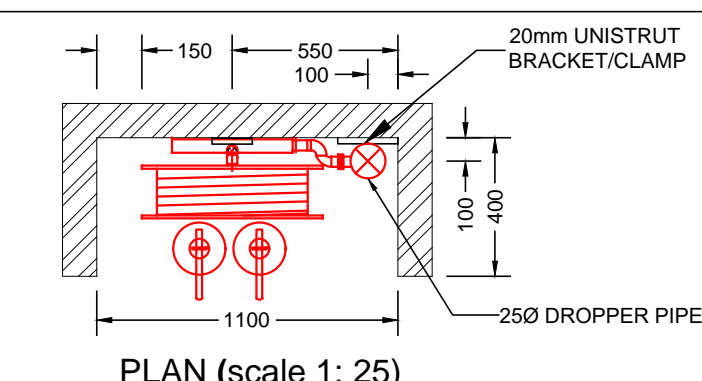
FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1500mm UNLESS SHOWN OTHERWISE .

ALL ESCAPE ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED.

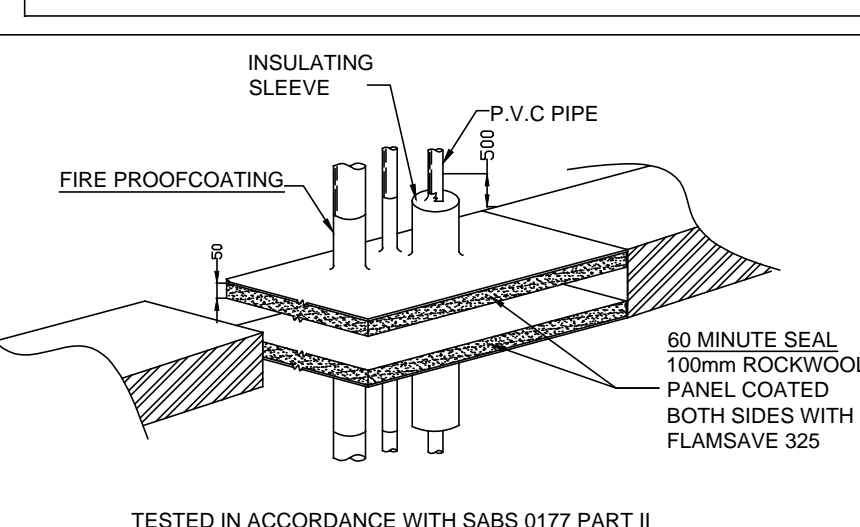
ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS.



### HYDRANT, FIRE HOSE & EXTINGUISHER ELEVATION (scale 1: 25)











FIRE HOSE & EXTINGUISHER  
ELEVATION (scale 1: 25)



TYPICAL CABLE FIRE PROOFING DETAIL  
(scale 1:25)


### FIRE SERVICES LEGEND

 BREAK GLASS UNIT  FIRE HYDRANT  DIRECTIONAL ARROW  60MIN FIRE RATED LIFT LANDING DOOR  60 MINUTE FIRE RATED WALL	 HOSE REEL  4.5kg DCP FIRE EXTINGUISHER  FIRE ESCAPE
--	---

FIRE DESIGN CONFIRMATION	
DEEMED TO SATISFY WITH SANS 10400	N/A
RATIONAL ASSESSMENT	YES
RATIONAL DESIGN EQUIVALENT OR SUPERIOR TO SANS 10400	N/A

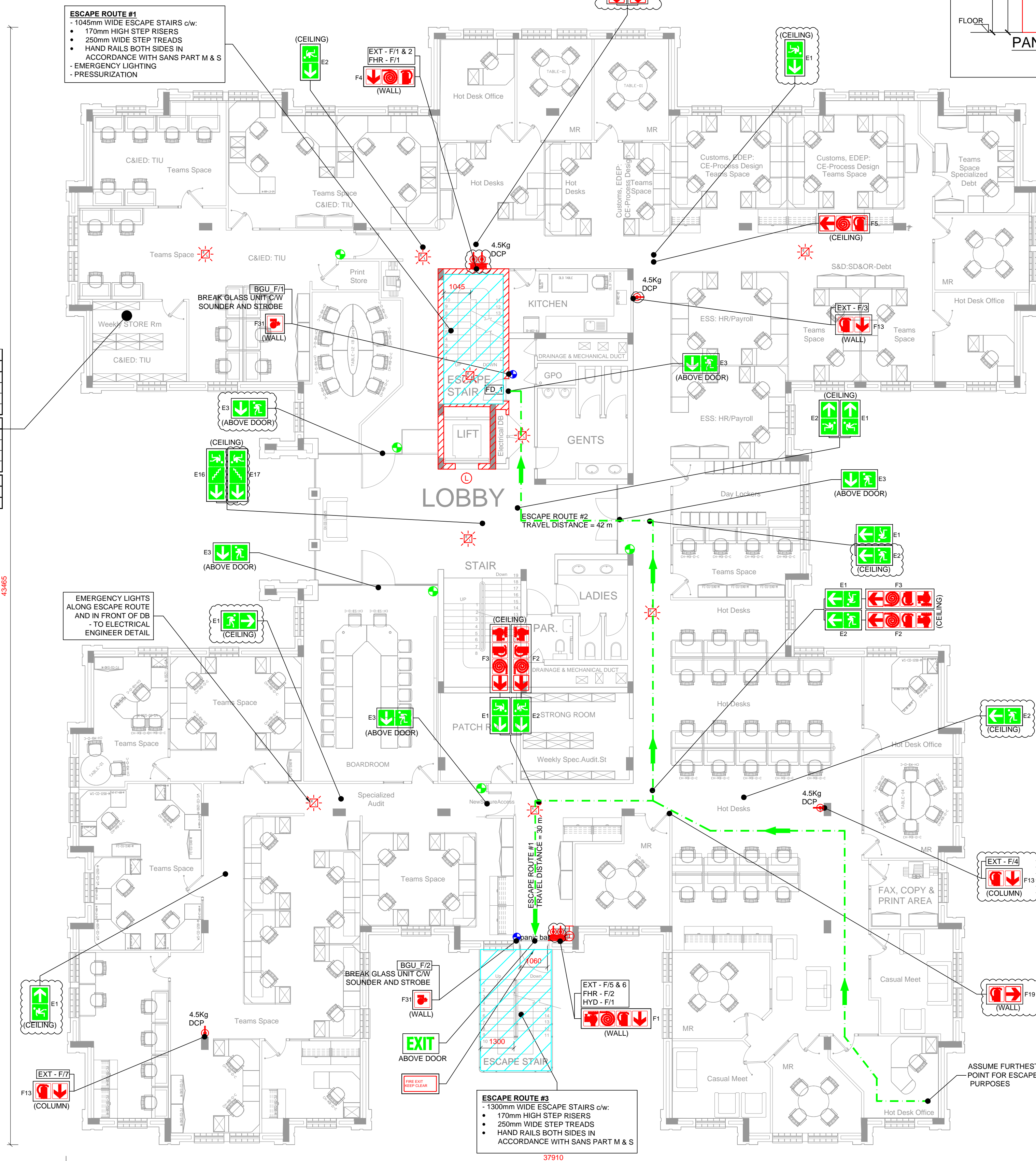
ISSUE DATE: 2021-06-02		REVISION: A
X	FOR INFORMATION	
	FOR APPROVAL	
	FOR TENDER	
	FOR CONSTRUCTION	
	AS-BUILT	

REVISIONS				
No	Date	Description	Rev By	Ckd By
A	02/06/2021	ISSUED FOR INFORMATION	S.M	H.R

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PROJECT	LAHAE LA SARS - BLOCK D		
	BROOKLYN		
DWG TITLE	FIRST STOREY - PROPOSED		
	FIRE SERVICES LAYOUT		
DWG NUMBER	21B09-F-504-05	REV.	A
DESIGNED BY	S. MAFUYA	SCALE	1:100 @ A1
CHECKED BY	H.D ROUX	ECSA NUMBER	201070151
APPROVED BY	H.D ROUX	ECSA NUMBER	201070151
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FIRE SERVICES DESIGN SUMMARY SCHEDULE				
<b>1 OCCUPANCY INFORMATION</b>				
1.1 FLOOR AREA:	1125	m <sup>2</sup>	OCCUPIED	
1.2 OCCUPANCY CLASS:	G1		OFFICE	
1.3 POPULATION:	1/ SEAT	= 108	NUMBER OF PEOPLE	
1.4 ROUTES OF ESCAPE required:	1-off 789mm & 1-off 1060mm wide			
<b>2 FIRE PROTECTION EQUIPMENT</b>				
2.1 FIRE HYDRANT:	1/ 1000	m <sup>2</sup> = 1	REQUIRED, 90 METERS APART	
2.2 FIRE HOSE REEL:	1/ 500	m <sup>2</sup> = 2	REQUIRED, WITH 30 METRE LONG HOSES	
2.3 EXTINGUISHERS:	1/ 200	m <sup>2</sup> = 6	REQUIRED, 4.5 KG DCP TYPE	
2.4 SPRINKLER PROTECTIONS:	NO	NOT REQUIRED		
<b>3 RELATED SERVICES</b>				
3.1 FIRE DETECTION:	YES	THROUGHOUT THE BUILDING IN ACCORDANCE WITH SANS 10139:2012 (Category L1)		
3.2 SMOKE VENTILATION:	NO	COMPARTMENTALISED		

- A. FIRE CONTRACTOR
  1. SERVICE AND RE-USE EXISTING FIRE EXTINGUISHERS AND 2-OFF FIRE HOSE REELS.
  2. SUPPLY & INSTALL NEW FIRE FIGHTING EQUIPMENT AS INDICATED ON PLAN.
  3. SUPPLY & INSTALL NEW FIRE SIGNAGE AS INDICATED ON PLAN.
  4. NEW EVACUATION PLANS & PROCEDURES.
- B. ELECTRICAL CONTRACTOR
  1. SUPPLY AND INSTALL EMERGENCY LIGHTING THROUGHOUT THE SPACE AS SHOWN ON PLAN, c/w BATTERY BACKUP.
- C. BUILDER.
  1. SUPPLY AND INSTALL PAIN BARIS C/w WHITE ON GREEN "PUSH BAR TO OPEN" SIGN
  2. PROVIDING PENETRATIONS THROUGH CEILINGS AND WALLS AND MAKING GOOD THEREOF.
  3. FIXING OF EXTINGUISHER BACKING BOARDS TO WALLS PROVIDED BY FIRE CONTRACTOR.
  4. SUPPLY AND INSTALL NEW FIRE DOORS C/W 25mm STEEL FRAM. AND DOOR CLOSER.
  5. FIRE SEALING OF PENETRATIONS THROUGH FIRE WALLS.



FIRST STOREY - PROPOSED FIRE SERVICES LAYOUT (Scale 1:100)