

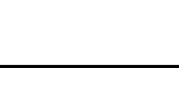
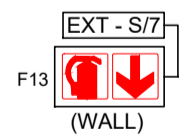


FIRE SERVICES DESIGN SUMMARY SCHEDULE			
1 OCCUPANCY INFORMATION			
1.1 FLOOR AREA:	1125	m ²	OCCUPIED
1.2 OCCUPANCY CLASS:	G1		OFFICE
1.3 POPULATION:	1/ SEAT	162	NUMBER OF PEOPLE
1.4 ROUTES OF ESCAPE required:	1-off 873mm, 1-off 1449mm & 1-off 1065mm wide		
2 FIRE PROTECTION EQUIPMENT			
2.1 FIRE HYDRANT:	1/ 1000	m ² = 1	REQUIRED, 90 METERS APART
2.2 FIRE HOSE REEL:	1/ 500	m ² = 2	REQUIRED, WITH 30 METER LONG HOSES
2.3 EXTINGUISHERS:	1/ 200	m ² = 6	REQUIRED, 4.5 KG DCP TYPE
2.4 SPRINKLER PROTECTIONS:	NO	NOT REQUIRED	
3 RELATED SERVICES			
3.1 FIRE DETECTION:	YES	THROUGHOUT THE BUILDING IN ACCORDANCE WITH SANS 10139:2012 (Category L1)	
3.2 SMOKE VENTILATION:	NO	COMPARTMENTALISED	

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

- ESCAPE ROUTE #2**
- 1449mm WIDE ESCAPE STAIRS c/w:
 - 170mm HIGH STEP RISERS
 - 250mm WIDE STEP TREADS
 - HAND RAILS BOTH SIDES IN ACCORDANCE WITH SANS PART M & S
 - EMERGENCY LIGHTING

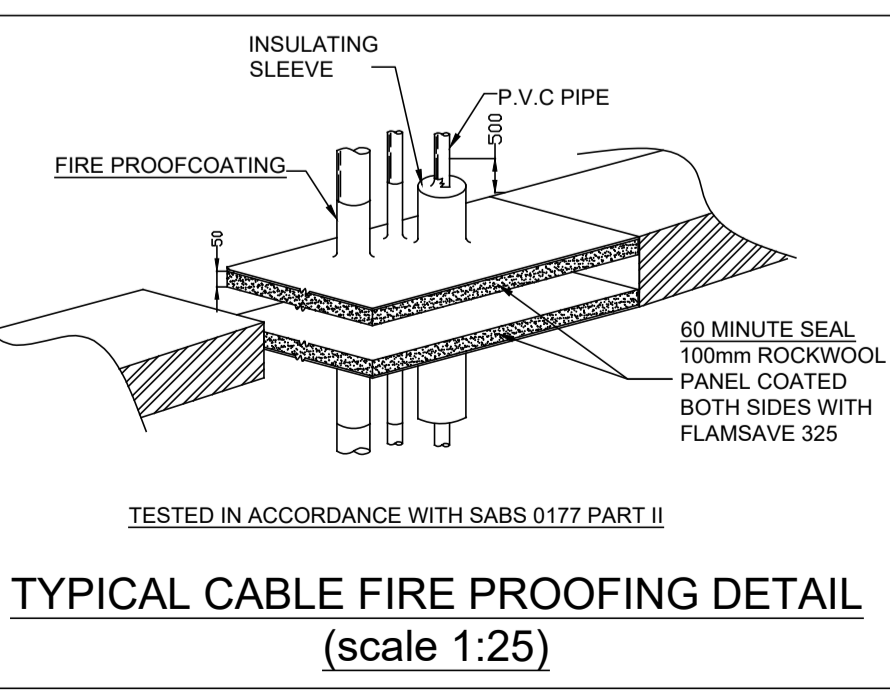
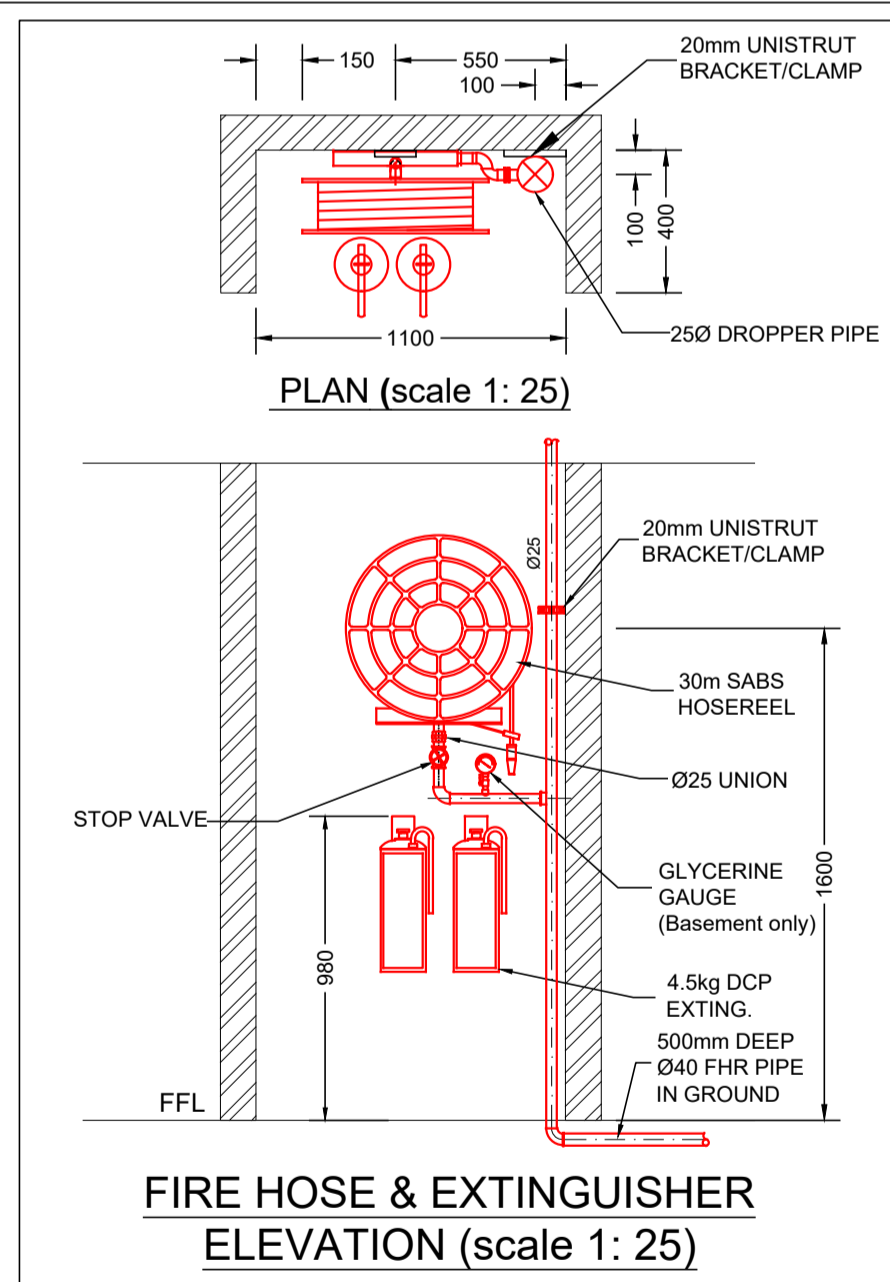
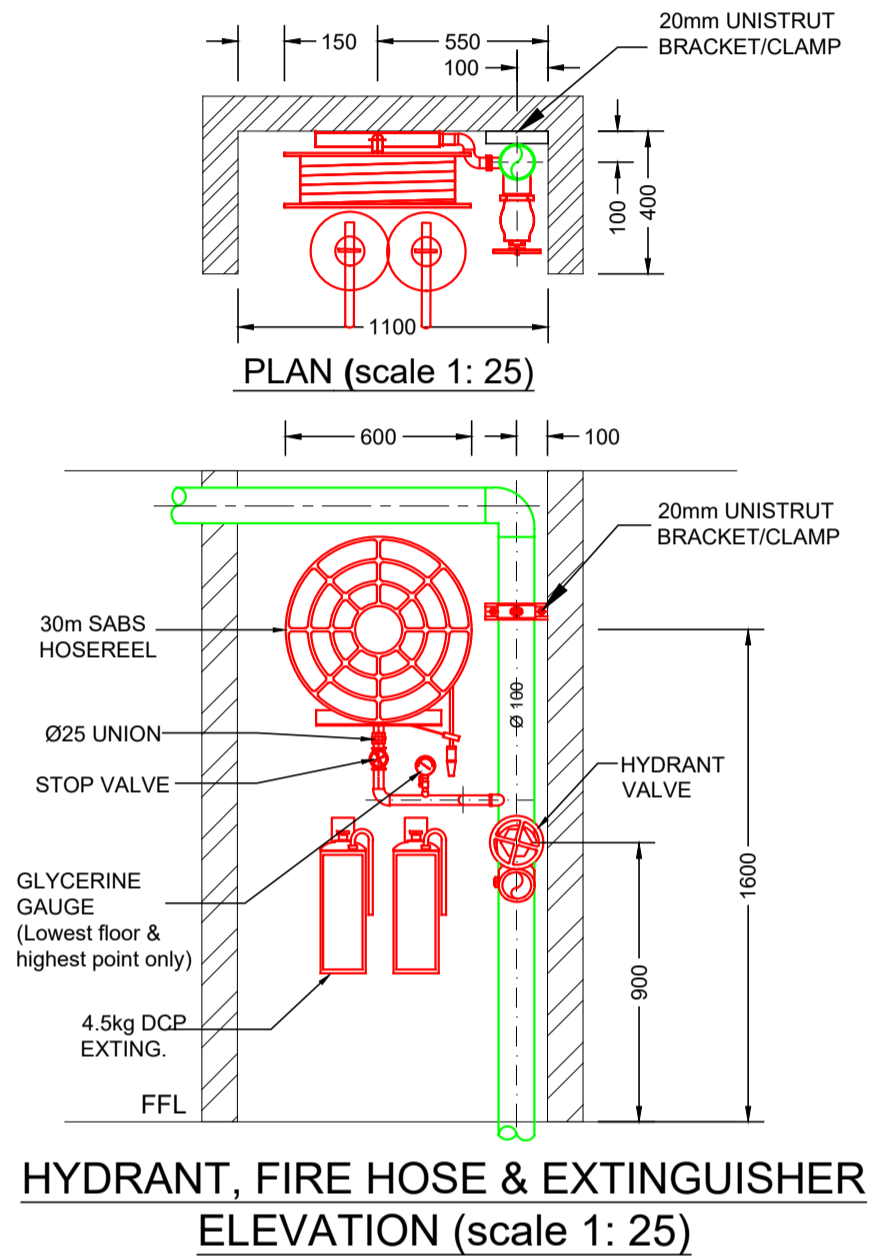
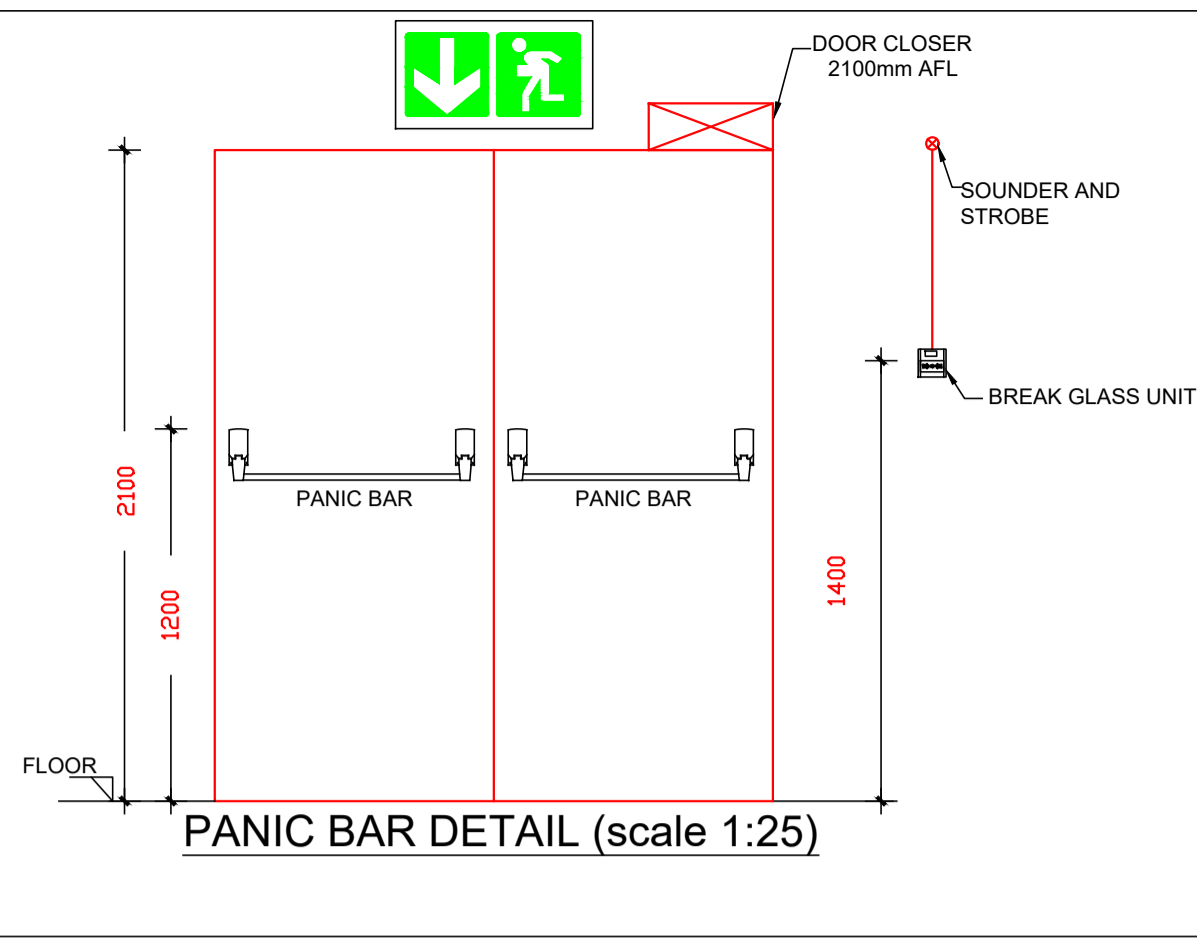
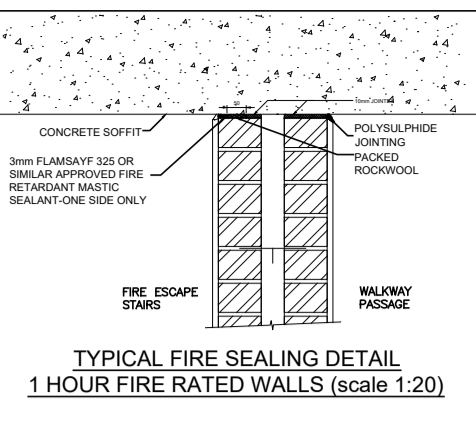
EMERGENCY LIGHTS
ALONG ESCAPE ROUTE
AND IN FRONT OF DB
- TO ELECTRICAL
ENGINEER DETAIL



CLOUDED INDICATES
EXISTING EQUIPMENT

FIRE SIGNS & EQUIPMENT COUNT													
SYMBOL	E1	E2	E3	E6	E16	E17	F13	F16	F19	F4	F5	F6	F45
REFERENCE	E1	E2	E3	E6	E16	E17	F13	F16	F19	F4	F5	F6	F45
QUANTITY	7	4	4	1	2	1	4	1	3	2	1	1	2

FIRE DOOR SCHEDULE									
DOOR TAG	SWING	FIRE RATING	DOOR SIZE WIDTH (mm) HEIGHT (mm)	NORMAL DOOR OPEN	CLOSED	PANIC BAR	DOOR CLOSER	HOLD OPEN	
FD_1	ONE WAY	60 minute	815 2100	N/A	YES	NO	YES	NO	



FIRE INSTALLATION NOTES

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

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. SEALINGS 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

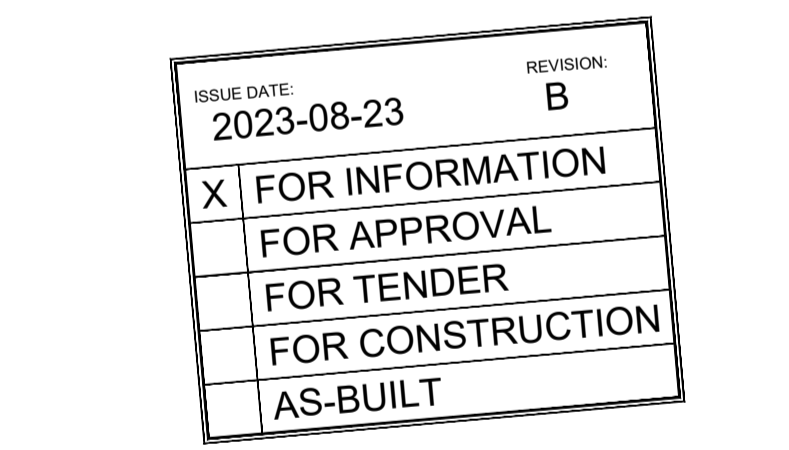
ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE IRONMONGERY.

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.

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

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



REVISIONS				
No	Date	Description	Rev By	Ckd By
A	02/06/2021	ISSUED FOR INFORMATION	S.M	H.R
B	23/08/2023	ISSUED FOR INFORMATION	S.M	H.R

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PROJECT: LAHA LA SRS - BLOCK A
BROOKLYN

DWG TITLE: FIRST STOREY - PROPOSED
FIRE SERVICES LAYOUT

DWG NUMBER: 21B09-F-501-05
REV. B

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