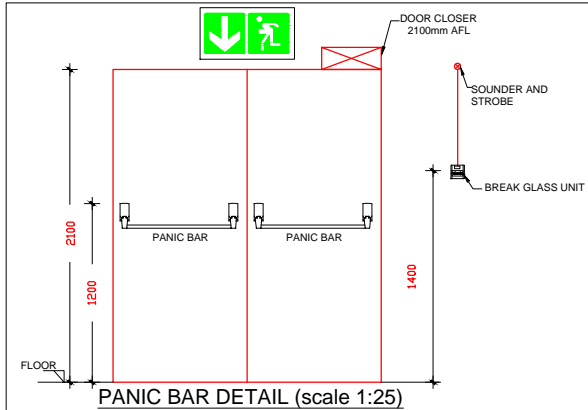
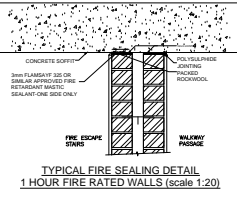


FIRE SIGNS & EQUIPMENT COUNT (EXISTING)						
SYMBOL						
REFERENCE	E3	F4	F5	F6	FHR	EXT
QUANTITY	3	3	1	1	3	7

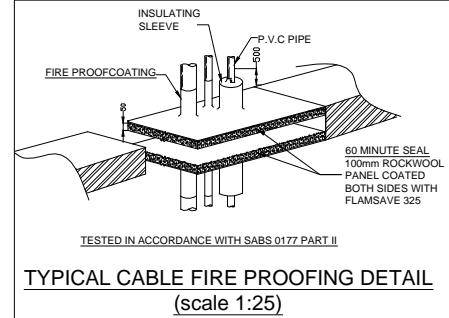
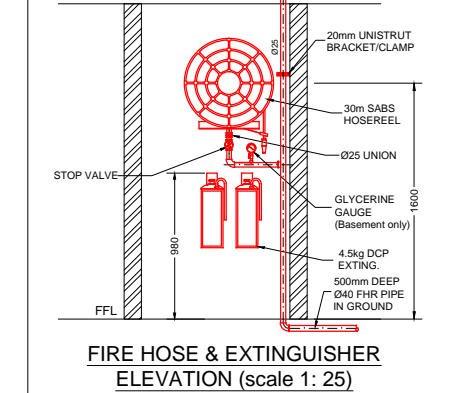
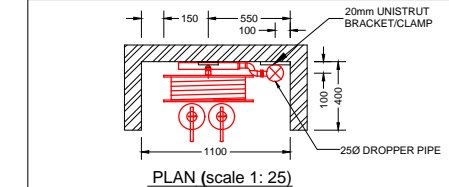
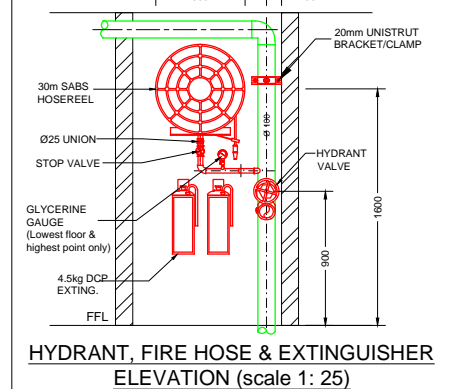
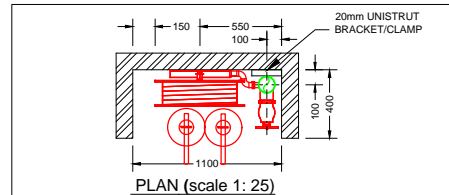
CLOUDED INDICATES
EXISTING EQUIPMENT

FIRE SERVICES DESIGN SUMMARY SCHEDULE						
1. OCCUPANCY INFORMATION						
1.1 FLOOR AREA	3100	m ²				OCCUPIED OFFICE
1.2 OCCUPANCY CLASS	01					
1.3 POPULATION	1/SEAT	= 147				NUMBER OF PEOPLE
1.4 ROUTES OF ESCAPE required:	1 off 1200mm, 1 off 900mm & 1 off 1250mm wide					
2. FIRE PROTECTION EQUIPMENT						
2.1 FIRE HYDRANT	1/1000	m ² = 3		REQUIRED, 30 METERS APART		
2.2 FIRE HOSE REEL	1/500	m ² = 2		(3 OFF EXISTING INSTALLED)		
2.3 EXTINGUISHERS	1/200	m ² = 5		REQUIRED, 4.5 KG DCP TYPE (3 OFF INSTALLED, 2 OFF NEW & 1 OFF EXISTING)		
2.4 SPRINKLER PROTECTIONS	NO	NOT REQUIRED				
3. RELATED SERVICES						
3.1 FIRE DETECTION	YES	THROUGHOUT THE BUILDING IN ACCORDANCE WITH SANS 10139:2021 (Category L3)				
3.2 SMOKE VENTILATION	NO	COMPARTMENTALISED				

FIRE SIGNS & EQUIPMENT COUNT (NEW)																
SYMBOL																
REFERENCE	E1	E2	E3	E6	F4	F5	F6	F1	F2	F3	F13	F45	F31	EXT	HYD	BGU
QUANTITY	3	3	3	3	4	2	2	2	1	1	3	2	4	2	1	4



FIRE DOOR SCHEDULE										
DOOR TAG	SWING	FIRE RATING	WIDTH (mm)	HEIGHT (mm)	OPEN	CLOSED	PANIC BAR	DOOR CLOSER	HOLD OPEN	
FD 1	ONE WAY	60 minute	815	2100	YES	YES	NO	YES	NO	
FD 2	ONE WAY	60 minute	1200	2100	N/A	YES	NO	YES	NO	
FD 3	ONE WAY	60 minute	1200	2100	N/A	YES	NO	YES	NO	
FD 4	ONE WAY	60 minute	1200	2100	N/A	YES	NO	YES	NO	
FD 5	ONE WAY	60 minute	1200	2100	N/A	YES	NO	YES	NO	



FIRE INSTALLATION NOTES

PORTABLE FIRE EXTINGUISHERS
FIRE EXTINGUISHERS SHALL BE 4.5kg 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. 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 SABS 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		HOSE REEL
	FIRE HYDRANT		4.5kg DCP FIRE EXTINGUISHER
	DIRECTIONAL ARROW		FIRE ESCAPE
	60MIN FIRE RATED LIFT LANDING DOOR C/W SMOKE CHECK SEALS		
	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
A	02/06/2021	ISSUED FOR INFORMATION
B	27/06/2022	DRAWING UPDATED TO SUIT: - NEW ARCHITECT LAYOUT
C	06/07/2022	ISSUED FOR TENDER

No.	Date	Description	Rev By	Ckd By
A	02/06/2021	ISSUED FOR INFORMATION	S.M	H.R
B	27/06/2022	DRAWING UPDATED TO SUIT: - NEW ARCHITECT LAYOUT	E.K	H.R
C	06/07/2022	ISSUED FOR TENDER	L.K	H.R

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7580

PROJECT: LAHAE LA SRS - BLOCK H

DWG TITLE: GROUND STOREY - PROPOSED

DWG NUMBER: 21B09-F-509-01 REV. C

DESIGNED BY: S. MAFIYA SCALE: 1:100 @ A1

CHECKED BY: H.D ROUX ECSA NUMBER: 201070151

APPROVED BY: H.D ROUX ECSA NUMBER: 201070151

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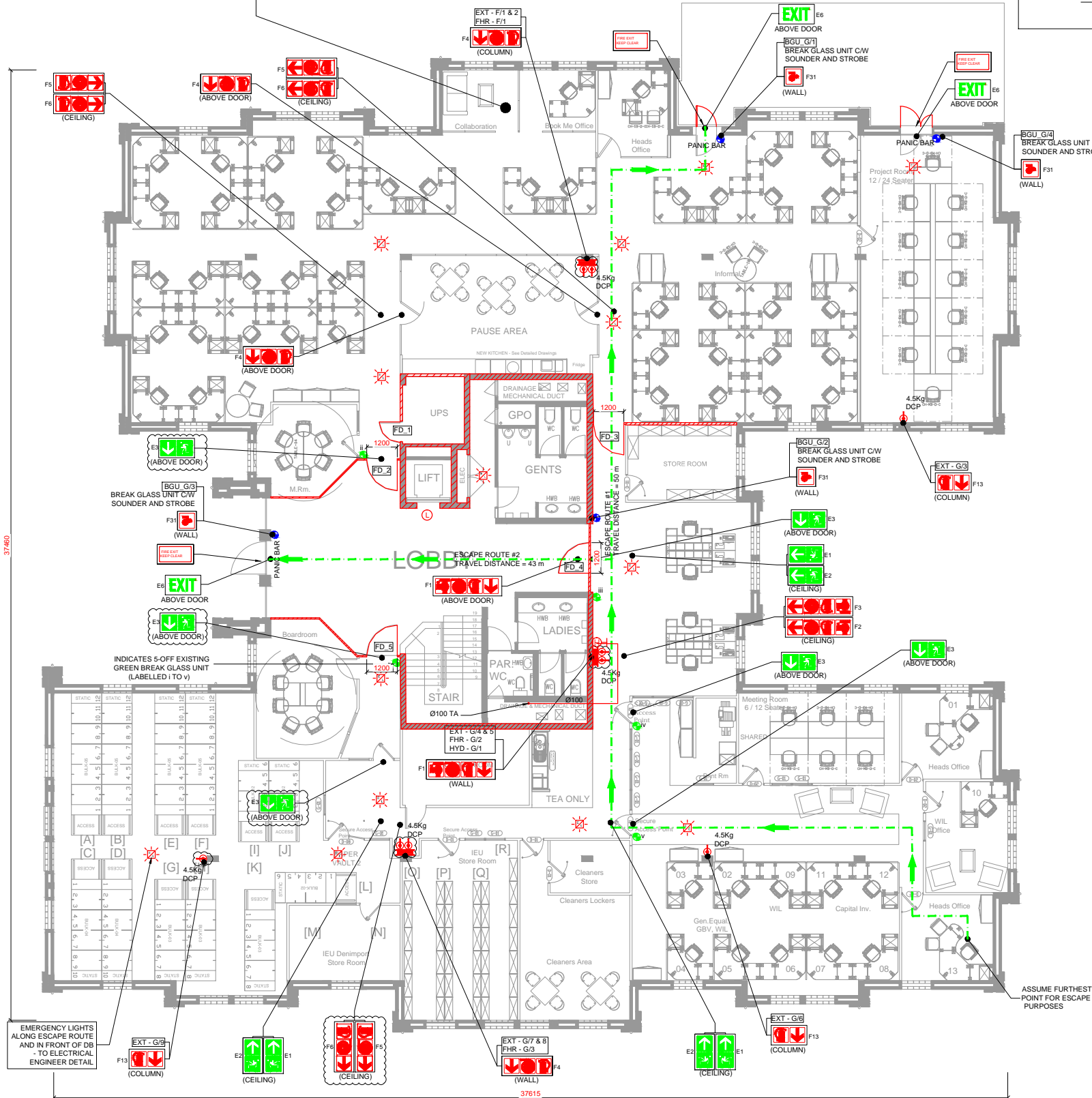
- ### SCOPE OF WORKS CLARIFICATION

A. FIRE CONTRACTOR
SERVICE AND RE-USE EXISTING FIRE EXTINGUISHERS AND 3-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.

ITEM	DESCRIPTION	QTY
1	FIRE HYDRANT	1
2	FIRE HOSE REEL	3
3	4.5 Kg DCP EXTINGUISHER	9



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