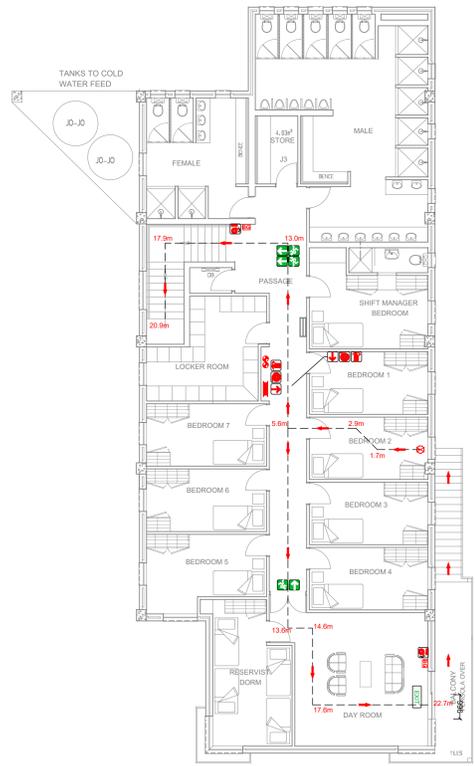


FIRE SERVICES SCHEDULE

1. AREA INFORMATION	
AREA NAME	GROUND FLOOR
FLOOR AREA	631 m ²
TOTAL POPULATION	12 PERSONS
OCCUPANCY CLASSIFICATION	B3 - LOW RISK COMMERCIAL (INCL G1-OFFICES AND J4-PARKING GARAGE)
NO. OF ESCAPE ROUTES	
1-OFF	873mm WIDE, 1-OFF 1203mm WIDE & 1-OFF 1483mm WIDE & 2-OFF 4161mm WIDE
2. FIRE PROTECTION EQUIPMENT	
FIRE HOSE REELS	2-OFF REQUIRED
FIRE HYDRANTS	0-OFF REQUIRED
FIRE EXTINGUISHERS	4-OFF 4.5kg DCP REQUIRED
3. OTHER FIRE SERVICES	
FIRE DETECTION SYSTEM	L1M IN ACCORDANCE WITH SANS 10139: 2021
SMOKE VENTILATION	NOT REQUIRED, COMPARTMENTS LESS THAN 500m ²

FIRE SERVICES SCHEDULE

1. AREA INFORMATION	
AREA NAME	FIRST FLOOR
FLOOR AREA	300 m ²
TOTAL POPULATION	12 PERSONS
OCCUPANCY CLASSIFICATION	B3 - LOW RISK COMMERCIAL
NO. OF ESCAPE ROUTES	
1-OFF	966mm WIDE, 1-OFF 1500mm WIDE
2. FIRE PROTECTION EQUIPMENT	
FIRE HOSE REELS	1-OFF REQUIRED
FIRE HYDRANTS	0-OFF REQUIRED
FIRE EXTINGUISHERS	2-OFF 4.5kg DCP REQUIRED
3. OTHER FIRE SERVICES	
FIRE DETECTION SYSTEM	L1M IN ACCORDANCE WITH SANS 10139: 2021
SMOKE VENTILATION	NOT REQUIRED, COMPARTMENTS LESS THAN 500m ²



- FIRE NOTES**
- STRUCTURAL STABILITY AS PER SANS 10400: PART-T 60 MINUTES.
 - FIRE EXTINGUISHERS, FIRE HOSE REELS AND FIRE HYDRANTS TO BE PROVIDED AT A RATE AS SPECIFIED IN SANS 10400: PART-T. SERVICE STICKERS TO BE VISIBLY DISPLAYED.
 - FIRE EXTINGUISHERS TO BE MOUNTED ON TIMBER BACKING BOARDS AT 800mm AFFL. FIRE HOSE REELS TO BE MOUNTED WITH THE CENTER AT 1600mm AFFL.
 - FIRE EXTINGUISHERS TO COMPLY WITH SANS 810. FIRE HOSE REELS TO COMPLY WITH 543. PIPE WORK SHALL COMPLY WITH SABS 62.
 - HOSE REELS SHALL HAVE A MINIMUM FLOW RATE OF 0.5 l/s @ 300kPa. HYDRANTS SHALL HAVE A MINIMUM FLOW RATE OF 20 l/s @ 300kPa.
 - FIRE HOSE REELS SHALL COME COMPLETE WITH 30m HOSE AND NOZZLE. FIRE HYDRANTS SHALL BE INSTALLED WITH FEMALE INSTANTANEOUS COUPLING C/W NYLON PLUG.
 - FIRE SIGNS TO BE SANS 1186-S, PHOTO LUMINESCENT TYPE, 290x200MM FOR GARAGE, 150x150 FOR OFFICE AREAS. INTERNALLY ILLUMINATED "EXIT" SIGN WITH BATTERY BACKUP TO BE PROVIDED, EXCEPT WHERE EMERGENCY LIGHTING IS CLOSE ENOUGH TO PROVIDE SUFFICIENT LIGHT ON PHOTO LUMINESCENT SIGNS. SIGNS TO BE MECHANICALLY FIXED.
 - ALL EXISTING SIGNS BEING REUSED TO BE FITTED WITH NEW ALUMINUM FRAMES.
 - PRESSURE GAUGES TO BE INSTALLED AT EACH HOSE REEL.
 - ANY OPENING IN ANY EXTERNAL WALL OF ANY DIVISION MUST BE EQUAL OR GREATER 1000MM APART.
 - DOORS ON ACCESS CONTROL TO CLOSE/ RELEASE ON FIRE DETECTION SIGNAL.
 - FIRE SEALING OF PENETRATIONS, OPENINGS AND DIVISIONS (FIRE RATED WALLS). ALL PENETRATIONS AND OPENINGS IN WALLS INDICATED ON THE FIRE PLAN TO BE FIRE WALLS ARE TO BE CLOSED UP AND FIRE SEALED TO THE SAME RATING REQUIRED FOR SAID WALLS USING SABS APPROVED PRODUCTS.
 - EMERGENCY LIGHTING TO BE PROVIDED IN ESCAPE ROUTES WITH A MINIMUM AVERAGE ILLUMINANCE OF 50 LUX FOR 120 MINUTES.

FIRE SERVICES LEGEND

SYMBOL	DESCRIPTION
(Red circle with 4.5kg DCP)	4.5kg DCP FIRE EXTINGUISHER
(Red circle with 5kg CO2)	5kg CO2 FIRE EXTINGUISHER
(Red circle with 9L LITEX)	9 LITRE LITEX FIRE EXTINGUISHER
(Red circle with 30m PVC)	30m PVC FIRE HOSE REEL
(Red circle with BG)	BREAK GLASS UNIT
(Red circle with 60 min)	60 MINUTE FIRE RATED WALL
(Red circle with Class A)	CLASS A 60min SELF CLOSING FIRE DOOR
(Red circle with Assumed)	ASSUMED FURTHEST POINT OF ESCAPE
(Green arrow)	DIRECTION OF TRAVEL

ARCHITECT
PROJECT/DWG NO.
REVISION
DATE RECEIVED

SCALE
1:100 ORIGINAL SIZE A0

A	12/11/2024	ISSUED FOR APPROVAL	LC
REV	DATE	DESCRIPTION	REV BY

CLIENT/EMPLOYER

SmartBuild
Consulting Engineers - Mechanical & Fire

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ADDRESS
NIEUWEDRIFT FIRE STATION
ALTERATIONS AND ADDITIONS TO
EXISTING BUILDING REMAINDER
PORTION 23 OF FARM 486
BOLAND ROAD PAARL

PLAN DESCRIPTION
PROPOSED
FIRE SERVICES LAYOUT

DESIGNED	NAME	SIGNATURE
DRAWN	L Cornelissen	LC
CHECKED	L Cornelissen	
APPROVED	L Cornelissen	
PR. NO.	201370078	

CONTRACT NO.	240901
DRAWING NO.	240901-M-201
REVISION	A

FOR APPROVAL ONLY
DATE: 12/11/2024
REV: A