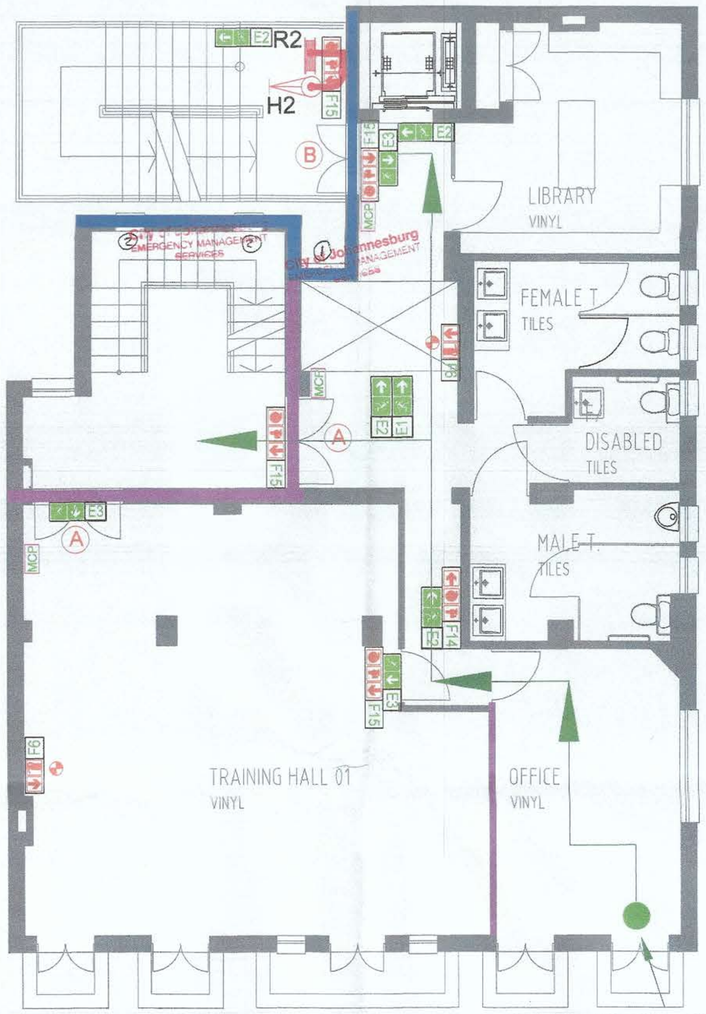
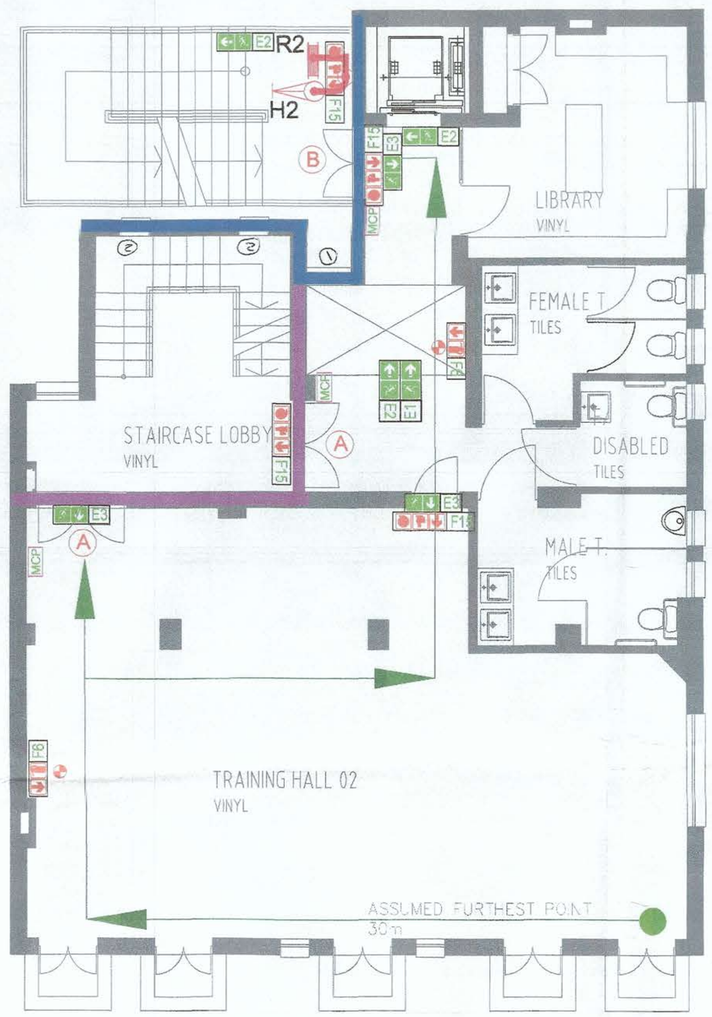


FIRST FLOOR – FIRE DESIGN LAYOUT
Scale : 1: 50



TYPICAL SECOND AND THIRD FLOOR – FIRE DESIGN LAYOUT
Scale : 1: 50

INTERNAL LAYOUT ONLY

City Of Johannesburg
Emergency Management Services
THIS DEPARTMENT HAS NO OBJECTION TO THIS PLAN BEING APPROVED BY BUILDING CONTROL
2019 -04- 05

DEVELOPMENT PLANNING
RECOMMENDED FOR APPROVAL
Author of the Building Control Officer
Surname & Initials: JEANS
SAP NO: 20030156
20 NOV 2020

General Notes:
1. This drawing is to be read in conjunction with drawings issued by the consultants of various disciplines, in particular; structural, electrical, mechanical and wet services engineers.
2. Any discrepancies between drawings layouts are to be brought to the attention of the architects prior to any work being put in hand.
3. Figured dimensions are to be taken in preference to scaled measurements and large scale details drawings will supersede small scale general layout drawings.
4. Contractors and subcontractors to check all dimensions and levels on site prior to any work being put in hand.
5. All work on site is to conform to good building practice and all relevant national codes and standards.
6. The master hard at 1 World Consultants bears the original signature of approval.

Revisions:

No.	Date	Revisions	Drawn
A	08/10/2018	ISSUED FOR COUNCIL	AS
B	15/02/2019	ISSUED FOR TENDER	AM
C	04/04/2019	UPDATED TO NEW LAYOUTS	AM

Reference Drawings:

Dwg No.	Description
1704_J_C100_rev00-Floor Plans	Floor Plans

FIRE SYMBOLS

	E1
	E2
	E3
EXIT	E4
ESCAPE	E5
	E6
	E7
	E8
	F1
	F2
	F3
	F4
	F5
	F6
	F7
	F8
	F9
	F10
	F11
	F12
	F13
	F14
	F15
	F16
	F17
	F18

SYMBOL	DESCRIPTION
	FIRE EXTINGUISHER
	30m PVC HOSE REEL
30m	65mm RAISED HOSE FIRE HYDRANT
	BOOSTER CONNECTION
	RISER
MCP	MANUAL CALL POINT
	SMOKE DETECTOR
	LANDMARK DOOR SIGN
	FIRE HOSE REEL SUPPLY VALVES
	30 MINUTE FIRE RATED WALL
	60 MINUTE FIRE RATED WALL
	120 MINUTE FIRE RATED WALL
	CLASS A 30 MIN SELF CLOSING FIRE DOOR
	CLASS B 120 MIN SELF CLOSING FIRE DOOR
	1 HOUR FIRE RATED DOOR WITH SMOKE SEAL BETWEEN LEAVES
	A 60 min FIRE WINDOW
	SMOKE VENTILATED ROLLER SHUTTLE DOOR ASSEMBLY (SVD)
	DIRECTIONAL ARROW

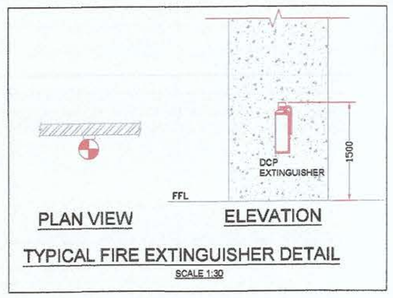
TRAINING CENTER SECOND AND THIRD FLOOR - FIRE DESIGN SUMMARY SCHEDULE	
OCCUPANCY CLASSIFICATION	A3- PLACES OF INSTRUCTION
FLOOR AREA	176 m2
POPULATION	35
NUMBER OF ESCAPE ROUTES	1
TYPE OF FIRE EQUIPMENT INSTALLED	FIRE HOSE REELS AND FIRE EXTINGUISHERS
NUMBER OF FIRE HYDRANTS	1 WITHIN SITE (1 per 1000 m2)
NUMBER OF FIRE HOSE REELS	1 (1 per 500 m2)
NUMBER OF FIRE EXTINGUISHERS	2 OFF 4.5 KG DCP (1 per 200 m2)
FIRE DETECTION	L3 DETECTION (L1 ON ROOF LEVEL)
FIRE STABILITY	90 MIN
SPRINKLER PROTECTED	NO, AREA DIVIDED <500 m2
SMOKE CONTROL	NO, AREA DIVIDED <500 m2
EMERGENCY LIGHTING	IN EMERGENCY ROUTE

TRAINING CENTER FIRST FLOOR - FIRE DESIGN SUMMARY SCHEDULE	
OCCUPANCY CLASSIFICATION	A3- PLACES OF INSTRUCTION
FLOOR AREA	176 m2
POPULATION	30
NUMBER OF ESCAPE ROUTES	1
TYPE OF FIRE EQUIPMENT INSTALLED	FIRE HOSE REELS AND FIRE EXTINGUISHERS
NUMBER OF FIRE HYDRANTS	1 WITHIN SITE (1 per 1000 m2)
NUMBER OF FIRE HOSE REELS	1 (1 per 500 m2)
NUMBER OF FIRE EXTINGUISHERS	2 OFF 4.5 KG DCP (1 per 200 m2)
FIRE DETECTION	L3 DETECTION (L1 ON ROOF LEVEL)
FIRE STABILITY	90 MIN
SPRINKLER PROTECTED	NO, AREA DIVIDED <500 m2
SMOKE CONTROL	NO, AREA DIVIDED <500 m2
EMERGENCY LIGHTING	IN EMERGENCY ROUTE

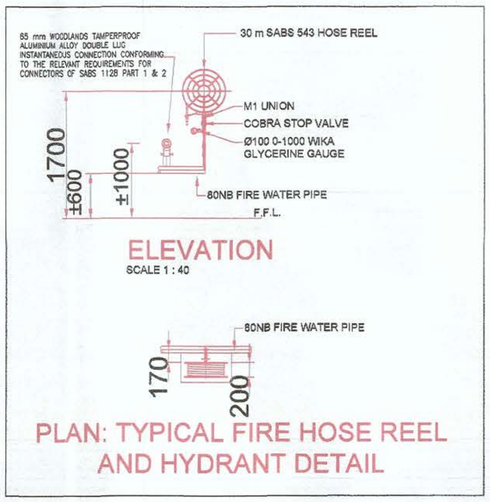
FIRE PROTECTION NOTES
1. SITE AT 54 KLEIN STREET, HILLBROW, GAUTENG, SOUTH AFRICA.
2. ALL WORK TO COMPLY WITH ACT 103 OF 1977 AND SANS 10400 PART T - 2011.
3. OCCUPANCY CLASSIFICATION: A3 AS PER SANS 10400-A CLAUSE 20.
A) DCP FIRE EXTINGISHERS TO BE INSTALLED IN ACCORDANCE WITH SANS SANS 10400-T.
B) 1 X 30M HOSE REELS, PER 500 M2 OR PART THEREOF, TO BE INSTALLED IN ACCORDANCE WITH SANS 543 AND 4.34.
C) HYDRANTS AND BOOSTER TO BE INSTALLED ON SITE IN ACCORDANCE WITH SANS 1128: PART 1 AND CLAUSE 4.35.
5. FIRE PIPING SERVICES ARE NEW.
6. WATER SUPPLY TO THE FIRE FIGHTING EQUIPMENT TO COMPLY WITH SANS 10400-2011 PART W AND WITH MUNICIPAL WATER BY-LAWS.
7. DOORS IN ESCAPE ROUTES MAY ONLY BE FITTED WITH APPROVED LOCKING DEVICES AND SHALL COMPLY WITH CAUSE 4.16, 4.17, 4.19.
8. PHOTOLUMINESCENT ESCAPE SIGNS TO BE PROVIDED AND TO COMPLY WITH SANS 1186 PART 1 AND 5, AS PER 4.29 AND TO BE HUNG FROM ROOF, WHERE THEY IS NO ROOF IT SHALL BE FITTED ON THE WALL.
9. PHOTOLUMINESCENT SYMBOLIC SIGNS, INDICATING FIRE EQUIPMENT, TO BE PROVIDED AND TO COMPLY WITH SANS 1186 PART 1 AND 5, AS PER SANS 4.32.
10. SUSPENDED CEILINGS AND ITS SUPPORTING MEMBERS , SHALL BE NON-COMBUSTIBLE MATERIALS.
11. STRUCTURAL ELEMENTS AND COMPONENTS SHALL HAVE A MINIMUM STABILITY RATING OF 90 MIN..
12. FIRE WALLS WILL EXTEND TO THE UNDERSIDE OF THE ROOF COVERING AND NO COMBUSTIBLE ROOF ELEMENT WILL PENETRATE SUCH WALL.
13. INSULATION MATERIALS TO COMPLY WITH SANS 428: 2006.
14. NO DANGEROUS GOODS WILL BE STORED IN EXCESS OF THE EXEMPT QUANTITIES AS PER SANS 10263-0 ANNEX A.
15. MINIMUM WIDTH OF FIRE ESCAPE TO BE 1500 mm.
16. SANS 62 MEDIUM, BLACK STEEL TO BE USED. PAINTED SIGNAL RED (A10)
17. PIPING AND FIRE FIGHTING EQUIPMENT TO BE PAINTED SIGNAL RED(A10) IN ACCORDANCE WITH SANS 10140.
18. HYDRANT AND BOOSTER CONNECTION TO BE INSTALLED AT PROPERTY BOUNDARY.
19. POSITION OF PIPING TO BE CONFIRMED ON SITE .
20. IF PRESSURE IS NOT ADEQUATE ON THE DAY OF INSPECTION THAN A PUMP AND TANK WILL BE SUPPLIED

① Allow 450 x 450 Georgian wire glass fire rated to be min on steel frame rch openings.

② Can leave windows out. Fire rated.



TYPICAL FIRE EXTINGUISHER DETAIL
SCALE 1:30



ELEVATION
SCALE 1 : 40

PLAN: TYPICAL FIRE HOSE REEL AND HYDRANT DETAIL

Project Name:
TRAINING CENTER
ERF RE/3064 JOHANNESBURG

Project Description:
FIRE INSTALLATION

Project Service:
MECHANICAL

Client:

BAYETE CAPITAL

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Consultants:

1world consultants

1 WORLD CONSULTANTS
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Drawing Issued:
FOR COUNCIL APPROVAL

Consultant Approval:
Name: MS BAKSH
Reg No:
Sign: .....
Date: ...../...../.....

Drawing Details:
TRAINING CENTER – TYPICAL SECOND AND THIRD & FIRST FLOOR FIRE DESIGN LAYOUT

Drawing Number:			Rev No.:
1841–FIRE–LYT–01–02			B
Date: 15/02/2019			
Scale: [1: 50]	Paper Size: A1	Drawn: AS	Checked: MSB