

DRAWING STATUS:  
FOR CONSTRUCTION

FIRE PROTECTION SYSTEMS LEGEND AND APPLIANCE SCHEDULE		
SYMBOL	No. OFF	DESCRIPTION
	4	Illuminated Escape Route Direction Sign
		Illuminated Escape Route Direction Sign (For Stairwells)
	2	Direction to Fire Extinguisher and Fire Hose Reel
		Direction to Fire Hose Reel
		Direction to Fire Extinguisher
		Direction to Fire Hydrant
		Direction to Fire Hydrant, Fire Hose Reel and Fire Extinguisher
		Fire Hydrant
	2	Fire Hose Reel
	4	Fire Extinguisher
		Visual Alarm
		Audible Alarm
		Smoke Detector
		Heat Detector
		Fire Alarm Break Glass Point
		Fire Alarm Panel

**GENERAL NOTES**

- All dimensions are in millimeters unless otherwise stated.
- Dimensions are to be READ and not scaled off from the drawing.
- Contractor(s) are to confirm all dimensions on site prior to commencement of construction and any discrepancies are to be reported to the Project Architect.

ALL FIRE PROTECTION INSTALLATION AND SIGNAGE WILL BE IN ACCORDANCE TO SANS 10400 PART T, W AND A ALL AUDIBLE AND VISUAL ALARMS, SMOKE/HEAT DETECTORS/SENSORS AND PUBLIC/EMERGENCY ADDRESSABLE SYSTEMS WILL IN ACCORDANCE TO SANS 10139

1. Fire Extinguishers – Installation of Fire Extinguishers (FE) will be in accordance with SANS 10400-T: 2011 Point 4.37

2. Fire Hose Reels – Installation of Fire Hose Reels (FHR) will be in accordance with SANS 10400-T: 2011 Point 4.34

2.1. All Fire Hose Reels to be equipped with Pressure Gauges  
2.2. All Fire Hose Reels to be equipped with a Shut Off Valve prior to the Pressure Gauges  
2.3. All Fire Hose Reels should be uniformly mounted no more than 1200mm and no less than 900mm above the surface at the lowest point of the Fire Hose Feed Drums.

3. Fire Hydrants – Installation of Fire Hydrants (FHyd) will be in accordance with SANS 10400-T: 2011 Point 4.35

3.1. All Fire Hydrants will be equipped with Pressure Gauges  
3.2. All Fire Hydrants should be mounted on a concrete anchor  
3.3. All Fire Hydrants should be uniformly mounted no more than 1200mm and no less than 900mm above the surface.

4. Fire Water Supply Network - The Fire Water Supply Network shall be installed in accordance with SANS 10252-1: 2012.

4.1 The fire water supply network shall be independent of any other water supply network. The fire water supply network shall have no isolation valves in between the network except for valves located at the main water meter and at the Discharge Side of the Fire Protection Back-Up Pump Set.

4.2. All Pipe jointing connections and systems should be for PN16 HDPE Pipes

4.3. Fire Hydrant and Fire Hose reel Piping above surface or wall mounted will be galvanized steel equivalent to the inlet diameter of the Fire Hydrant or Fire Hose Reel.

5. Smoke Detectors and Alarms - Installation of Smoke/Heat Detectors will be in accordance with SANS 10139 Part 1 Category L1 and L2

5.1. Alarms will be Audible and Visual where applicable and highlighted in specific buildings.

5.2. An addressable system will be installed along with a fire control panel in the main administration building and in other buildings where required and shown on the drawings

5.3. Fire Detection, Alarms and Addressable Systems will be linked via communication cables neatly hidden away from easy access and in fire proof conduiting and will run along areas least likely to be affected by fires

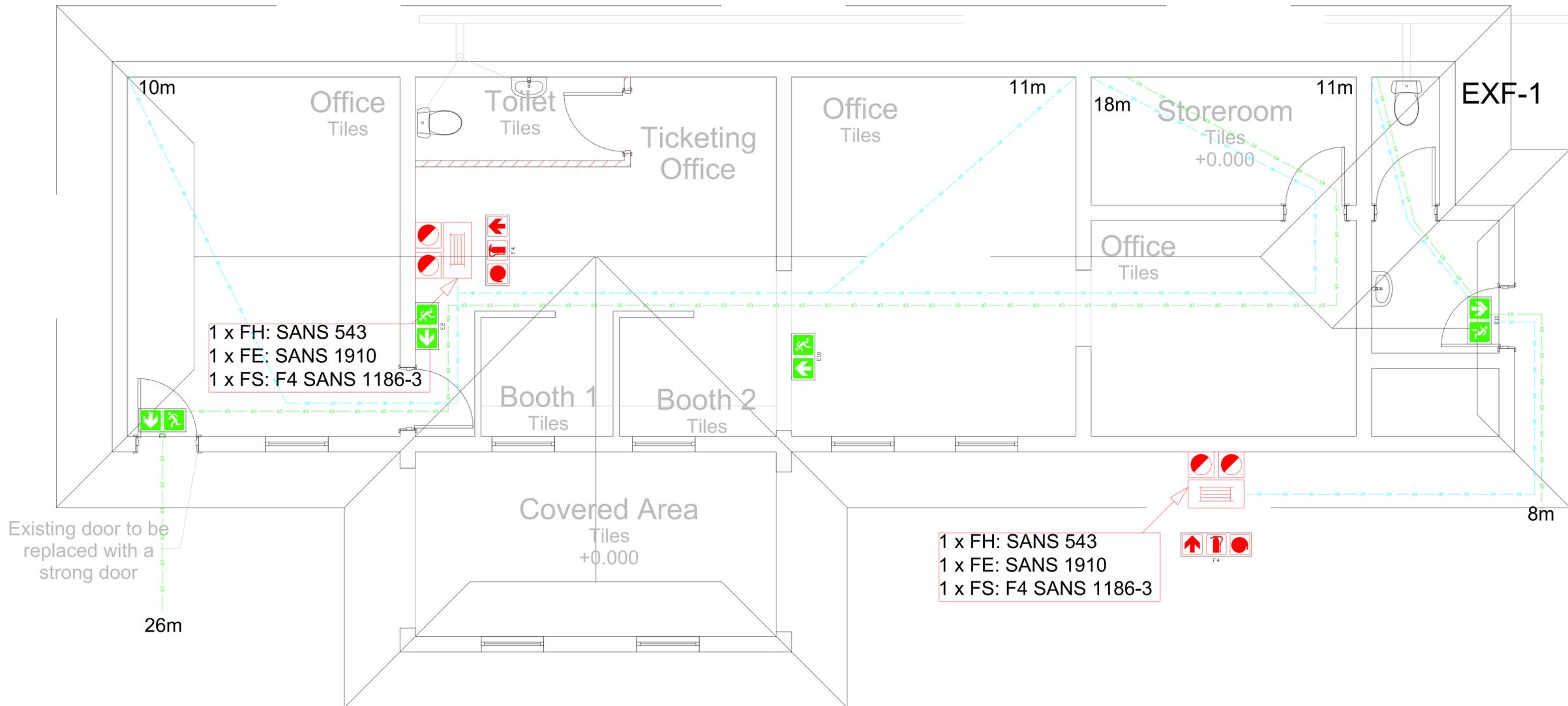
6. Signage – All Fire Protection Equipment, Warning and Escape Routes Signage shall be in compliance with SANS 10400-T: 2011 Point 4.29, and SANS 1186-1, 3, 5 and SANS 1464-22

7. Escape Routes - Escape routes will be mapped and calculated in accordance to SANS 10400-T Point 4.16, 4.17, 4.20 and 4.21

8. Emergency lighting – Where applicable all required emergency lighting shall comply with SANS 10400-T: 2011 Point 4.30

**FIRE PROTECTION DESIGN**

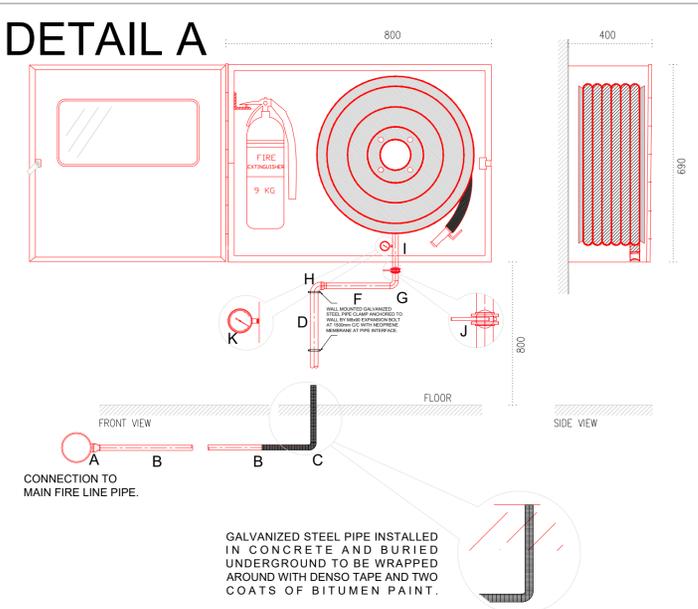
Total Stand Area: TBC m<sup>2</sup>  
Total Built Area: 100m<sup>2</sup>  
Building Classification: G1 - Offices  
Hose Reel Requirements: 1 per 500m<sup>2</sup>  
Maximum Length: 30m



1 x FH: SANS 543  
1 x FE: SANS 1910  
1 x FS: F4 SANS 1186-3

1 x FH: SANS 543  
1 x FE: SANS 1910  
1 x FS: F4 SANS 1186-3

Existing door to be replaced with a strong door  
26m



SCHEDULE OF FITTINGS			
Ref	Nominal Diameter (mm)	Description	Installation
A	150 x 150 x 50	PN16 HDPE T Piece	Burried Below Ground Level
B	50	PN16 HDPE Pipe	Burried Below Ground Level
C	50	Galvanized Steel 90° Bend	Burried Below Ground Level
D	50	Galvanized Steel Pipe	Through Concrete / Above Ground Level
E	50 x 50 x 35	Galvanized Steel T Piece	Above Ground Level
F	35	Galvanized Steel Pipe	Above Ground Level
G	35	Galvanized Steel 90° Bend	Above Ground Level
H	50	Galvanized Steel 90° Bend	Above Ground Level
I	25	Galvanized Steel Pipe	Above Ground Level
J	25	Gate Valve	Above Ground Level
K	25	Pressure Gauge	Above Ground Level

REV	DRAWINGS TITLE	CHK	APP	REV	DESCRIPTION	DATE	CHK	APP
	REFERENCE DRAWINGS				REVISIONS			

PROFESSIONAL SERVICE PROVIDER

**AES** consulting

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CHECKED	C. BHEHE			20-03-2023
PROJ. ENGINEER				
PROJ. MANAGER				
APPROVED				

CLIENT APPROVAL			
TITLE	INITIAL	SIGNATURE	DATE
GENERAL MANAGER			
PROJECT MANAGER			
PROJECT ENGINEER			

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PROJECT / DRAWING TITLE

STATION DEVELOPMENT FOR SYDENHAM, PORT ELIZABETH

FIRE PROTECTION LAYOUT

SCALE:	SHT. No. 1 of 1
NTS	
CONTRACT No.	PROJECT No.
DRAWING No.	
AES-PRASA-ME02-SYD-001	