

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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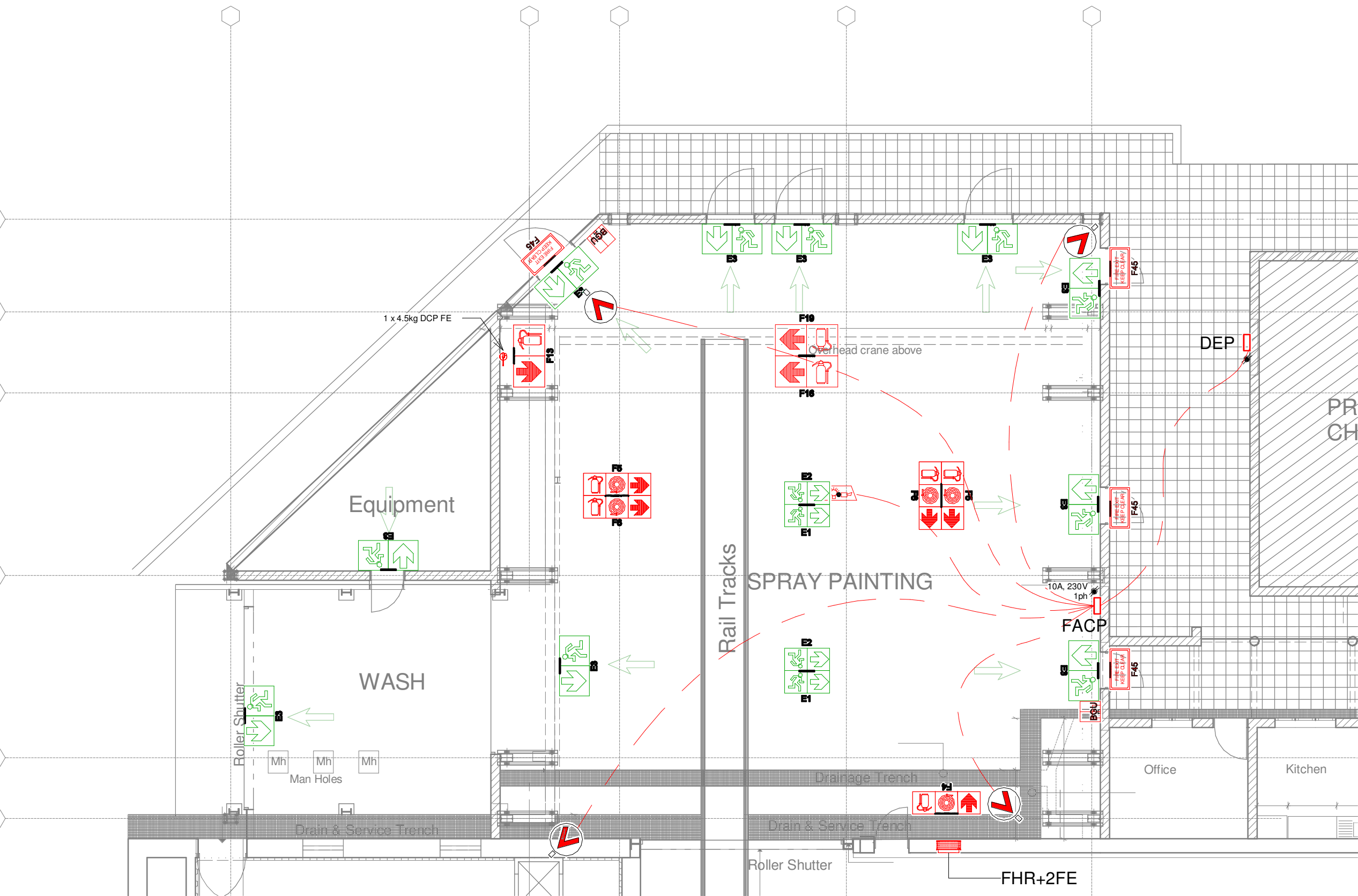
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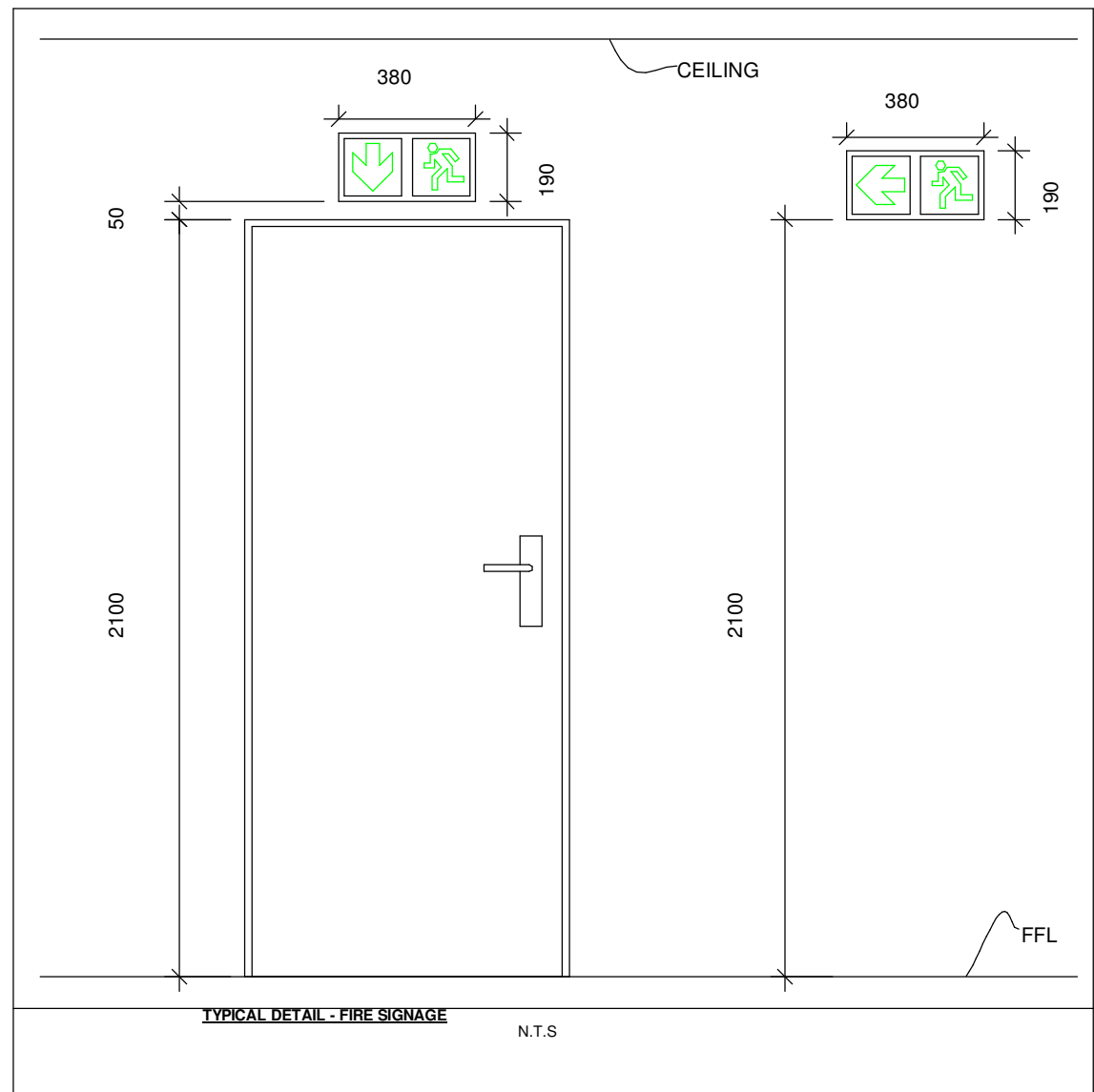
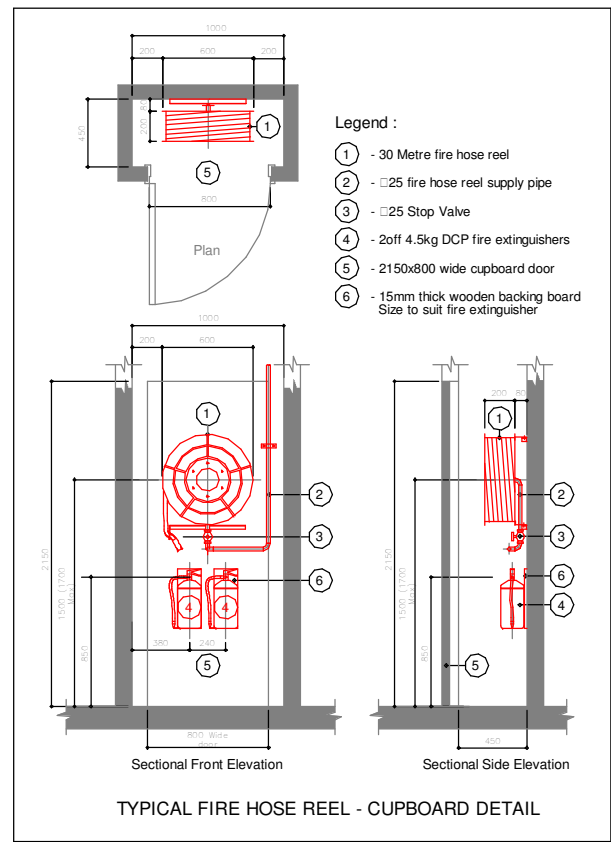
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1 SPRAY BOOTH FIRE PROTECTION LAYOUT 1 : 100



NOTES

- The fire detection system shall comply with SANS 10139 & SANS 369.
- The fire detection devices shall conform with EN 54.
- The fire control panel shall be surface mounted at 1500mm affl. at the indicated position. The exact position shall be determined on site.
- Indication lights shall be installed below the ceiling for the detectors mounted in the ceiling void.
- The break glass shall be surface mounted at 1400mm \pm 200mm AFFL. at the position as indicated.
- The external beacon and sounder unit shall be mounted at a high level. The exact position to be determined on site.
- Install a communication link to the fire brigade (REMRAD) from the control panel.
- The devices shall also be installed according to the manufacturer's manual and specifications.
- Install all the conduits, trunking and other wireways that are required for the installation. The trunking and conduits installation shall be coordinated with the electrical and mechanical contractors.
- The fire control panel shall be installed complete with batteries and charger as recommended and supplied by the manufacturer.
- The sensors shall be installed at least 300mm away from the light fittings. This shall be coordinated with the electrical contractor.
- The position of the break glass or call point shall be coordinated with the position of the light switches.
- The contractor shall ensure that acceptable sound output levels are achieved with a calibrated dB meter against the ambient noise levels as recommended in the standard.
- Relays and or 12V/24V potential free relay contacts shall be installed to open the dampers for HVAC systems.
- The power to the control panel shall be supplied by an electrically qualified and professional individual, with an isolator in the ceiling void. The isolator and the circuit breaker (shall be used solely be for the control panel) feeding the control panel shall be labeled "FIRE ALARM, DO NOT SWITCH OFF".
- Install trunking (Supplied by the Detection Contractor) to follow loop wire as indicated and tap off to the devices using 25mm diameter steel galvanized conduit or bosal. The exact routes and final positions shall be coordinated with the electrical and mechanical contractors
- All control panels to be supplied with Class A network loop card.
- All void detection to be reticulated through conduits fixed to lip purlins and trusses or slab soffit with draw boxes to suite.

LEGEND

SYMBOL	DESCRIPTION	QTY
	FIRE ALARM CONTROL PANEL (10A, 1PH, 230V)	1
	DELUGE EXTINGUISHANT PANEL	1
	COMBINATION STROBE & SOUNDER	1
	FIRE HOSE REEL + 2 FIRE EXTINGUISHERS	1
	IR3 FLAME DETECTOR WITH DUST FAN	4
	PHOTOLUMINESCENT SIGN WITH ALUMINUM FRAME	10
	PHOTOLUMINESCENT SIGN WITH ALUMINUM FRAME	2
	PHOTOLUMINESCENT SIGN WITH ALUMINUM FRAME	1
	PHOTOLUMINESCENT SIGN WITH ALUMINUM FRAME	2
	PHOTOLUMINESCENT SIGN WITH ALUMINUM FRAME	1
	PHOTOLUMINESCENT SIGN WITH ALUMINUM FRAME	1

EVACUATION SYMBOLS	DESCRIPTION
	DIRECTION OF ESCAPE
	FIRE ESCAPE ROUTE

GENERAL FIRE NOTE

Fire Extinguishers are to be hung on purpose-made boards and located in secure positions as indicated on the plan.

Access to every exit and necessary ways of exit shall be indicated by signs in accordance with SANS 1186 PART 1 TO 5 to be displayed in prominent positions to facilitate egress. (Photoluminescence type)

Free and unimpeded access to the Fire escape must be provided during working hours.

Doors giving access to the Fire escape must not be locked whilst the premises are occupied. A security device controllable from the inside only, as approved by the Fire Department may, however, be provided.

All emergency fire escape doors have a clear opening width of 900mm minimum, and self-closing devices are to be provided.

Fire escape doors are to be clearly identified from the exterior of the building.

SANS 10400 REQUIREMENTS

OCCUPANCY CLASSIFICATIONS – D2, G1

4.2 - Safety distances comply with Table 2.

4.5 - The requirement of the material specimen is not applicable at this stage of development unless to suit tenant requirements once determined certificates will be issued on request.

4.5.3 - Insulation materials to comply with SANS 428.

4.6 - Division separation and occupancy separation to comply with table 4.

4.14 - The type of floor and wall finishes envisaged for this development, may only be determined by tenant requirements being made available, at this stage of development, however, the classifications under tables 7 & 8 of the respective SANS 10400 code, will be used as the basis for the materials to be selected and then certified on inspection of development.

Floor coverings: D2 No Requirement
G1 class 5

Wall finishes: D2 No Requirement
G1 class 5

4.16 - The provisions of escape routes comply with this section. All escape routes and components are indicated on fire plans.

4.19 - Escape routes comply with this section and all provisions are indicated on the Fire Plans.

4.21 - Minimum width of escape routes as per Rational Design or meet with Table 10.

4.29 - Fire Signage will be provided of a photo luminescent type and the locations shall be subjected to the directive of the Fire Department.

4.30 - Emergency lighting to comply with this section and SANS 10114-2 and SANS 1464-22 codes of practice.

4.31 - A fire detection and evacuation system as per SANS 10139.

4.32 - Firefighting equipment is indicated on the fire plan and adequate fire signage will be displayed to indicate its position from the floor area.

4.34 - Fire hose reels have been indicated on Fire Plans and will comply with SANS 543, provided as per Rational Design.

4.35 - Hydrant to comply with SANS 1128 and provisions are indicated on Fire Plans.

4.37 - Portable Fire Extinguishers are provided as per Fire Plans and will comply with SANS 1910.

4.39 - Fire stopping of inaccessible concealed spaces to comply with this section.

FIRE PROTECTION EQUIPMENT SYMBOL	DESCRIPTION	(QTY)
	DCP EXTINGUISHER	
	FIRE HYDRANT	
	1 X FHR 2 X FE	1
	1 X FHR	
	CO ₂ EXTINGUISHER	

B	ISSUED FOR INFORMATION	MH	NM	NM	05-12-2024
A	ISSUED FOR INFORMATION	MH	NM	NM	13-11-2024
REV		BY	CHKD	AUTH	DATE
	SIGN	DATE	PROJECT NAME: Rosherville Rotek Industries		
DRAWN BY	MH	05-12-2024	JOB NAME: CHEMICAL STORE RENOVATION		
ENGINEER	NM	05-12-2024	Drawing Description: SPRAY BOOTH FIRE PROTECTION LAYOUT		
CHECKED	NM	05-12-2024	ROLWA DRAWING No: RF-02-001-01-P		
APPROVED	NM	05-12-2024	CLIENT DRAWING No:		
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					SHEET: OF:

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