

**PLAN
ADMINISTRATION
BUILDING
SCALE 1:50**

FIRE INSTALLATION NOTES																																														
DESCRIPTION	NUMBER																																													
FIRE EXTINGUISHERS	2																																													
FIRE HOSE REEL	1																																													
GENERAL NOTES																																														
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AS Built Drawing																																														

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Fire Plans **A 1**

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REG NO.: CK-300610143703

MTHATHA OFFICE 2 Merrimont Street Mthatha 5100	EAST LONDON OFFICE 26 Rhodes Street Dunoiy East London 5201	KOKSTAD OFFICE 13 Hawthorn Street Kokstad 4700
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Tel: +27 81 415 4330 Fax: +27 43 531 1198
Tel: +27 43 742 0023 Fax: +27 43 742 0023
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discipline: **MECHANICAL ENGINEER**

service

**SIVE / MALUTI
SPECIAL SCHOOL PHASE-2**

WCS number

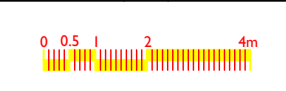
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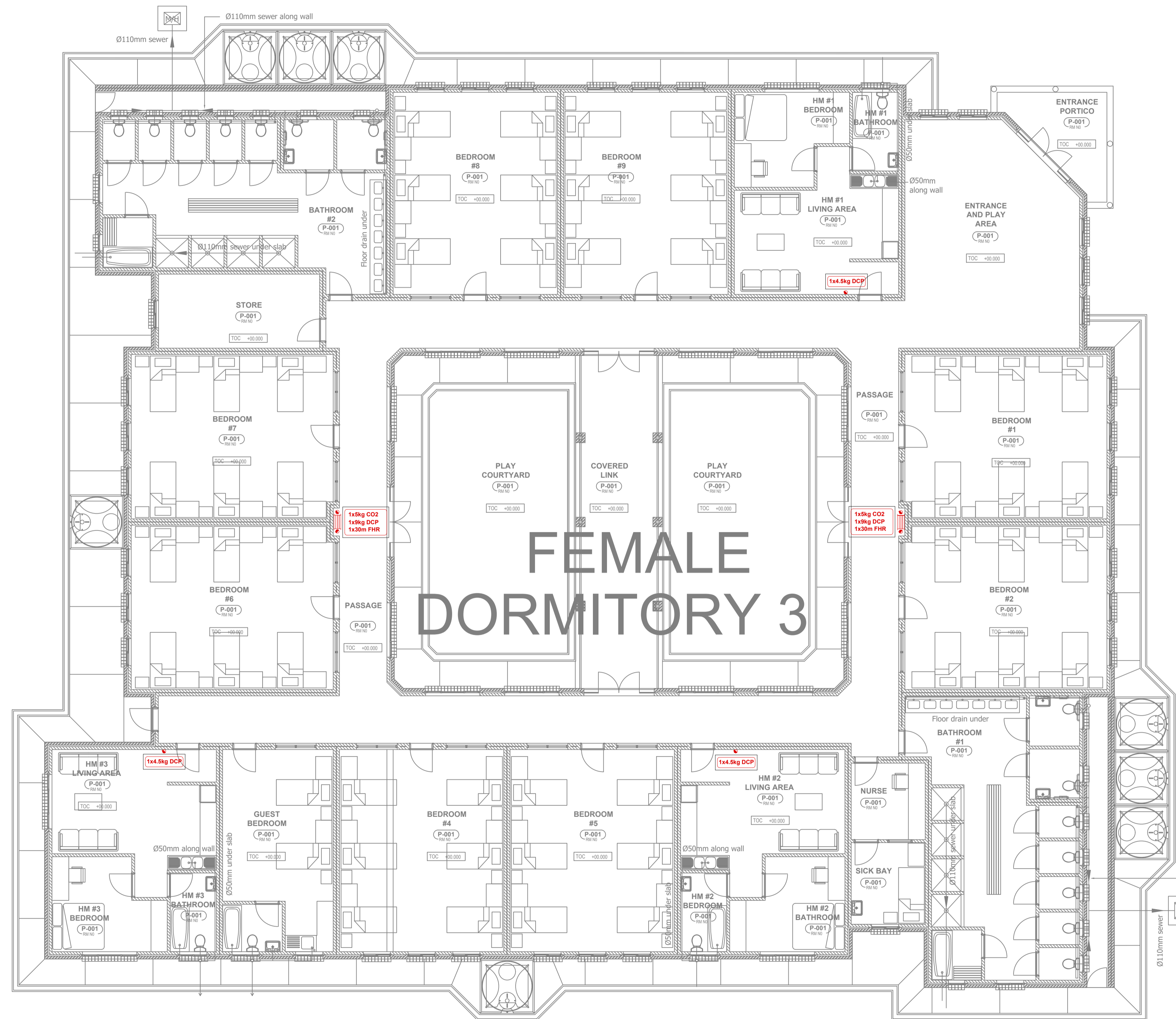
**ADMINISTRATION BUILDING
FIRE EQUIPMENT LAYOUT**

ref no: B designed: Mr. M.C Mntu
scale: 1:50 drawn: Mr. L. Moga
date: April 2023 checked: Mr. N. Kekane

drawing number

ME-0031-FE-01





FEMALE DORMITORY 3

FIRE INSTALLATION NOTES	
DESCRIPTION	NUMBER
FIRE EXTINGUISHERS	7
FIRE HOSE REEL	2

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS).
- THE LIFT SHAFT IS TO BE POSITIVELY PRESSURISED ON FIRE CONDITIONS
- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1915
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SANS 541 AND INSTALLED ACCORDING WITH SANS 10105-1
- ALL FIRE HOSE REELS SHALL BE COMPLETE WITH 30 METERS OF HOSE AND SHALL HAVE A MINIMUM FLOW RATE OF 0.5/s AT 300kPa.

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20/s AT 300kPa.

SYMBOLIC SAFETY SIGNAGE

- SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SANS 1186 PART V AND SHALL OF THE PHOTOLUMINESCENT TYPE.
- SIGNAGE BE INSTALLED SUCH AS TO CLEARLY INDICATE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES
- EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE STAIRS. SIGNAGE ON DRAWINGS IS AN INDICATION OF SIGNAGE REQUIRED.
- FIRE 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 SANS 10139

FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10139.

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

- EMERGENCY LIGHTING
- FIRE DETECTION AND ALARM
- PRESSURIZATION OR SMOKE EXTRACT FANS
- HOVING OF LIFTS
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- ESCAPE ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES.
- RECOR ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE BROWMONGERY.

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1100mm UNLESS SHOWN OTHERWISE ON DRAWINGS.
- ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS.

SYMBOLIC SAFETY SIGNAGE

- ALL FIRE SIGNS MUST BE PHOTO LUMINESCENT
- ALL SIGNS MUST BE MECHANICAL FIXED, SILICONE OR DOUBLE SIDED TYPE NOT ACCEPTABLE
- ALL SIGNS MUST BE INDICATE SABS STAMP OF APPROVAL
- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

1001	A	CEILING MOUNTED (SUSPENSION) SIGN	F	1002
1002	B	WALL MOUNTED SIGN	G	1003
1003	C	SIGN MOUNTED ABOVE DOOR	H	1004
1004	D	CEILING MOUNTED (SUSPENSION) SIGN	I	1005
1005	E	FIXED PERPENDICULAR TO WALL	J	1006

LEGEND

- A GLASS A SELF CLOSING FIRE DOOR
- B GLASS B SELF CLOSING FIRE DOOR
- C GLASS C SELF CLOSING FIRE DOOR
- D GLASS D SELF CLOSING FIRE DOOR
- E GLASS E SELF CLOSING FIRE DOOR
- F 120MIN FIRE RATED LEFT LANDING DOOR
- G DOUBLE SWING DOORS
- H INDICATES DOUBLE SIDED
- I GLASS D SELF CLOSING FIRE DOOR
- J EMERGENCY GATE DOOR RELEASE GREEN BREAK GLASS UNIT

DRAWING STATUS

Description	Approved AS, BY
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Scale: 0 0.5 1 2 4m

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Tel: +27 81 415 4330 Fax: +27 43 531 1198
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Tel: +27 39 727 4825 Fax: +27 39 727 1965

discipline: **MECHANICAL ENGINEER**

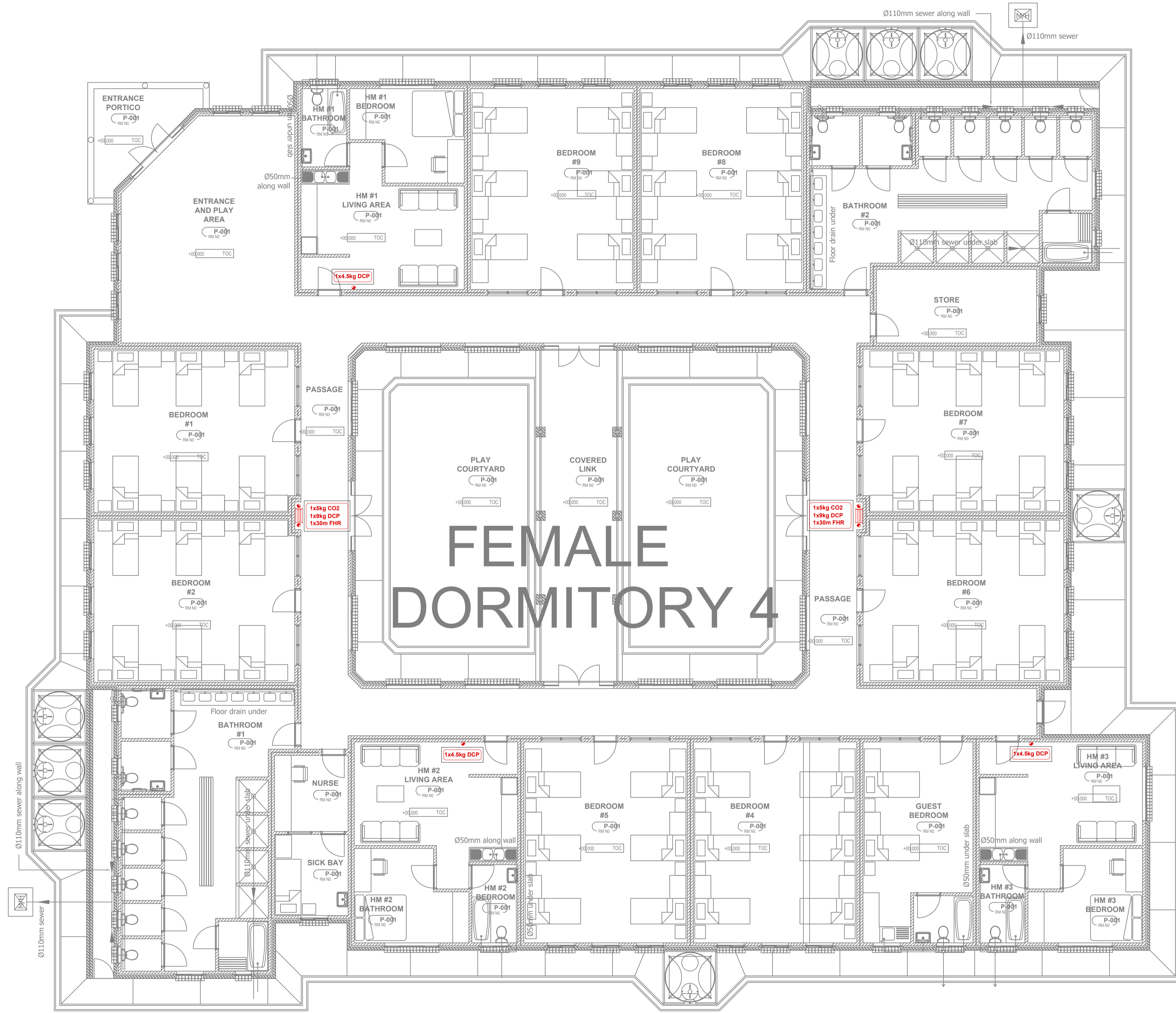
service: **SIVE / MALUTI SPECIAL SCHOOL PHASE-2**

WCS number: _____

drawing title: **FEMALE DORMITORY - 3 FIRE EQUIPMENT LAYOUT**

ref no: B assigned: Mr. M.C Mntu
scale: N.T.C drawn: Mr. L. Maja
date: April 2023 checked: Mr. N. Kekane

drawing number: **ME-0031-FE-02**



FEMALE DORMITORY 4

FIRE INSTALLATION NOTES	
DESCRIPTION	NUMBER
FIRE EXTINGUISHERS	7
FIRE HOSE REEL	2

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT.
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS).
- THE LIFT SHAFT IS TO BE POSITIVELY PRESSURISED ON FIRE CONDITIONS.
- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1915.
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SANS 541 AND INSTALLED ACCORDING WITH SANS 10105-1.
- 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 300kPa.

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20 l/s AT 300kPa.

SYMBOLIC SAFETY SIGNAGE

- SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SANS 1186 PART V AND SHALL OF THE PHOTOLUMINESCENT TYPE.
- SIGNAGE BE INSTALLED SUCH AS TO CLEARLY INDICATE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES.
- EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE STAIRS.
- SIGNAGE ON DRAWINGS IS AN INDICATION OF SIGNAGE REQUIRED.
- FIRE 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 SANS 10139.

FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10139.

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

- EMERGENCY LIGHTING
- FIRE DETECTION AND ALARM
- PRESSURIZATION OR SMOKE EXTRACT FANS
- HOMING OF LIFT
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- EMERGENCY ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES.
- RECOR ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES.

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE BROWMONGERY.

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1000mm UNLESS SHOWN OTHERWISE ON DRAWINGS.
- ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS.

SYMBOLIC SAFETY SIGNAGE

- ALL FIRE SIGNS MUST BE PHOTOLUMINESCENT
- ALL SIGNS MUST BE MECHANICAL FIXED, SILICONE OR DOUBLE SIDED (IF NOT ACCEPTABLE)
- ALL SIGNS MUST BE INDICATE SABS STAMP OF APPROVAL
- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

1001	A	CEILING MOUNTED (SUSPENSION) SIGN	F	1002
1002	B	WALL MOUNTED SIGN	G	1003
1003	C	SIGN MOUNTED ABOVE DOOR	H	1004
1004	D	CEILING MOUNTED (SUSPENSION) SIGN	I	1005
1005	E	FIXED PERPENDICULAR TO WALL	J	1006

LEGEND

- A GLASS A SELF CLOSING FIRE DOOR
- B GLASS B SELF CLOSING FIRE DOOR
- C GLASS C SELF CLOSING FIRE DOOR
- D GLASS D SELF CLOSING FIRE DOOR
- G GLASS E SELF CLOSING FIRE DOOR
- L 120MIN FIRE RATED LEFT LANDING DOOR
- DS DOUBLE SWING DOORS
- INDICATES DOUBLE SIDED
- EMERGENCY GATE DOOR RELEASE
- GREEN BREAK GLASS UNIT

DRAWING STATUS

Description	Approved AS, BY
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Issued For Tender Only	
Issued For Construction	
AS Built Drawing	

SCALE

0 0.5 1 2 4m

CONSULTANT

Vokora Afrika Consulting

REG NO: CK-200810143703

MITHATHA OFFICE 2 Mentem Street Mthatha 5100	EAST LONDON OFFICE 26 Rhodes Street Dunoyne East London 5201	KOKSTAD OFFICE 13 Hawthorn Street Kokstad 4700
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Tel: +27 81 415 4330 Fax: +27 81 431 1198
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MECHANICAL ENGINEER

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WCS number

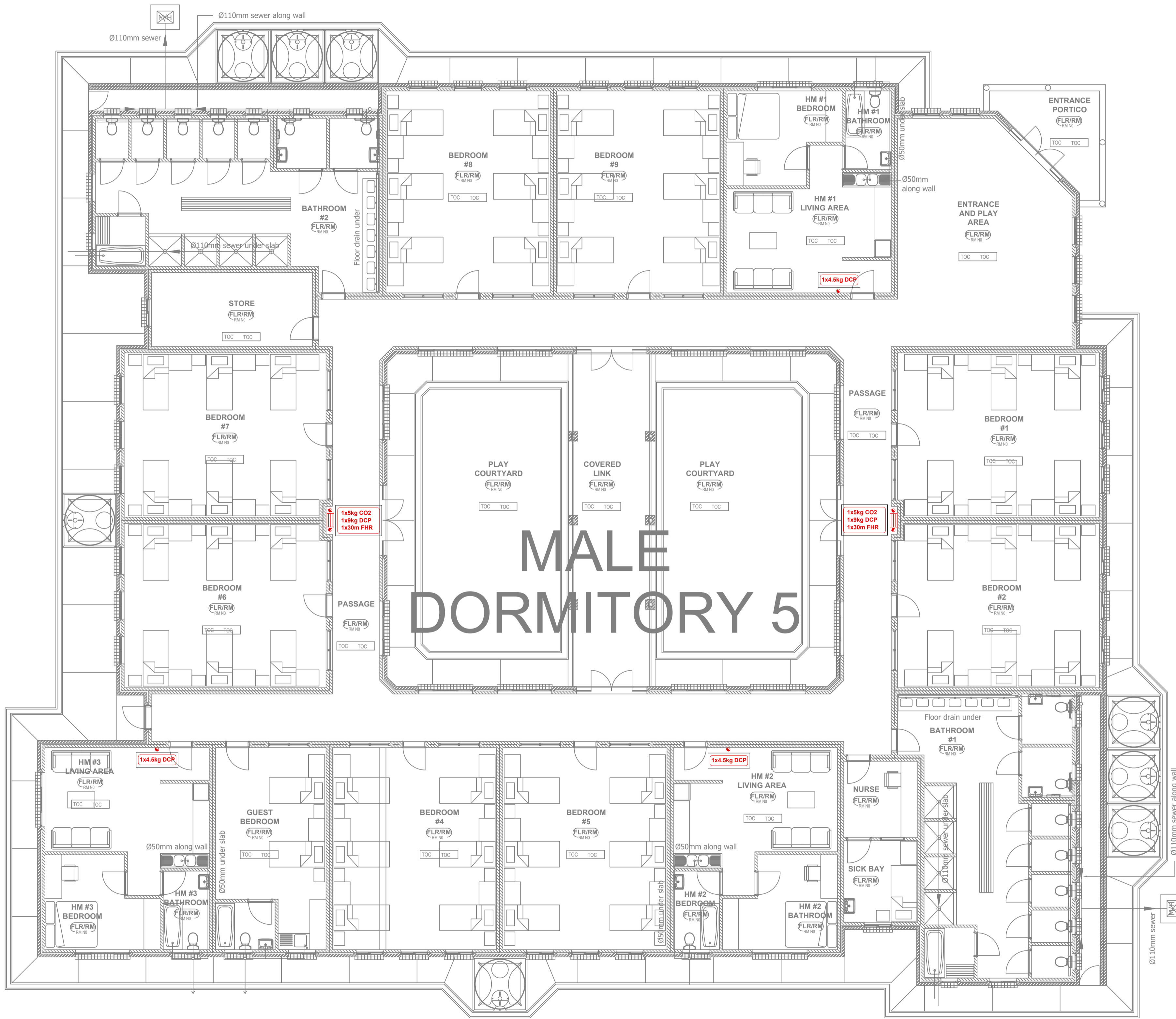
DRAWING TITLE

FEMALE DORMITORY- 4 FIRE EQUIPMENT LAYOUT

DESIGNED Mr. M.C Mntu
CHECKED N.T.C.
DRAWN Mr. L. Maja
DATE April 2023
SCALE As Shown
PROJECT Mr. N. Kekane

DRAWING NUMBER

ME-0031-FE-03



MALE DORMITORY 5

FIRE INSTALLATION NOTES	
DESCRIPTION	NUMBER
FIRE EXTINGUISHERS	7
FIRE HOSE REEL	2

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS).
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- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1915
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SABS S41 AND INSTALLED ACCORDING WITH SANS 10105-1
- 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 300kPa.

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20 l/s AT 300kPa.

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FIRE DOORS

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FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10139.

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

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- FIRE DETECTION AND ALARM
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- HOMING OF LIFTS
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- EMERGENCY ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES.
- RECOR ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE ROOMWONERY.

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1000mm UNLESS SHOWN OTHERWISE ON DRAWINGS.
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- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

FLR/10	A	CEILING MOUNTED (SUSPENSION) SIGN	FLR/10	F	GLASS A SELF CLOSING FIRE DOOR
FLR/10	B	WALL MOUNTED SIGN	FLR/10	G	GLASS E SELF CLOSING FIRE DOOR
FLR/10	C	SIGN MOUNTED ABOVE DOOR	FLR/10	H	120MM FIRE RATED LEFT LANDING DOOR
FLR/10	D	CEILING MOUNTED (SUSPENSION) SIGN	FLR/10	I	DOUBLE SWING DOORS
FLR/10	E	FIXED PERPENDICULAR TO WALL	FLR/10	J	GLASS D SELF CLOSING FIRE DOOR

A GLASS A SELF CLOSING FIRE DOOR
B GLASS B SELF CLOSING FIRE DOOR
C GLASS C SELF CLOSING FIRE DOOR
D GLASS D SELF CLOSING FIRE DOOR
E GLASS E SELF CLOSING FIRE DOOR
F GLASS A SELF CLOSING FIRE DOOR
G GLASS E SELF CLOSING FIRE DOOR
H 120MM FIRE RATED LEFT LANDING DOOR
I DOUBLE SWING DOORS
J GLASS D SELF CLOSING FIRE DOOR
K EMERGENCY GATE DOOR RELEASE GREEN BREAK GLASS UNIT

DRAWING STATUS

Description	Approved AS, BY
Issued For Concept Only	
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Issued For Final Construction	
AS Built Drawing	

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client

consultant

REG NO.: CK-200810143703

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discipline: **MECHANICAL ENGINEER**

service: **SIVE / MALUTI SPECIAL SCHOOL PHASE-2**

WCS number: _____

drawing title: **MALE DORMITORY - 5 FIRE EQUIPMENT LAYOUT**

ref no: B assigned: Mr. M.C Mntu
scale: N.T.C. drawn: Mr. L. Maja
date: April 2023 checked: Mr. N. Kekane

drawing number: **ME-0031-FE-04**



FIRE INSTALLATION NOTES																																														
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REG NO.: CK 300810143703

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discipline: **MECHANICAL ENGINEER**

service

**SIVE / MALUTI
SPECIAL SCHOOL PHASE-2**

WCS number

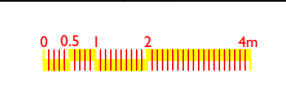
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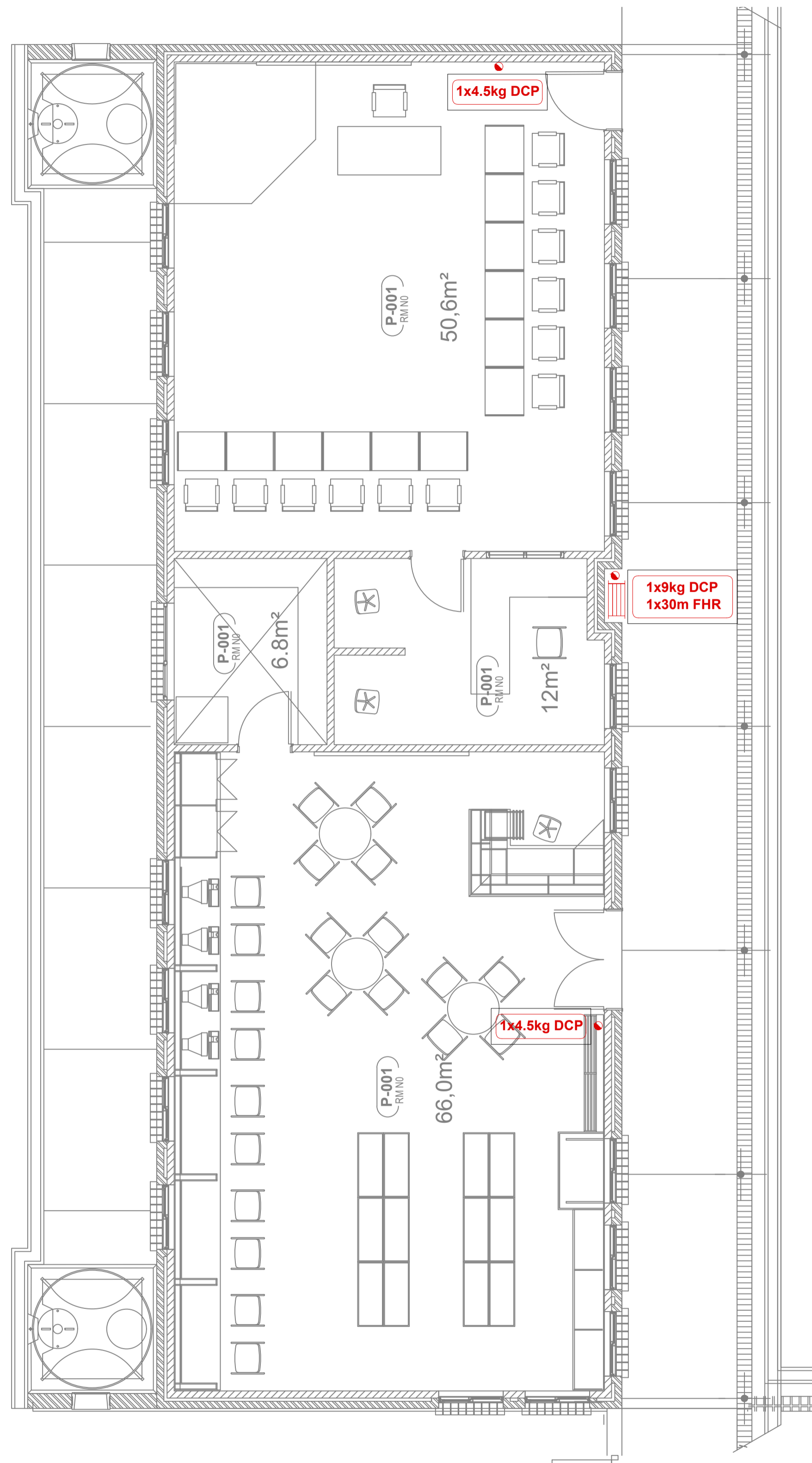
**CLASSROOMS-1
FIRE EQUIPMENT LAYOUT**

ref no: B assigned: Mr. M.C Mntu
scale: N.T.C drawn: Mr. L. Maja
date: April 2023 checked: Mr. N. Kekane

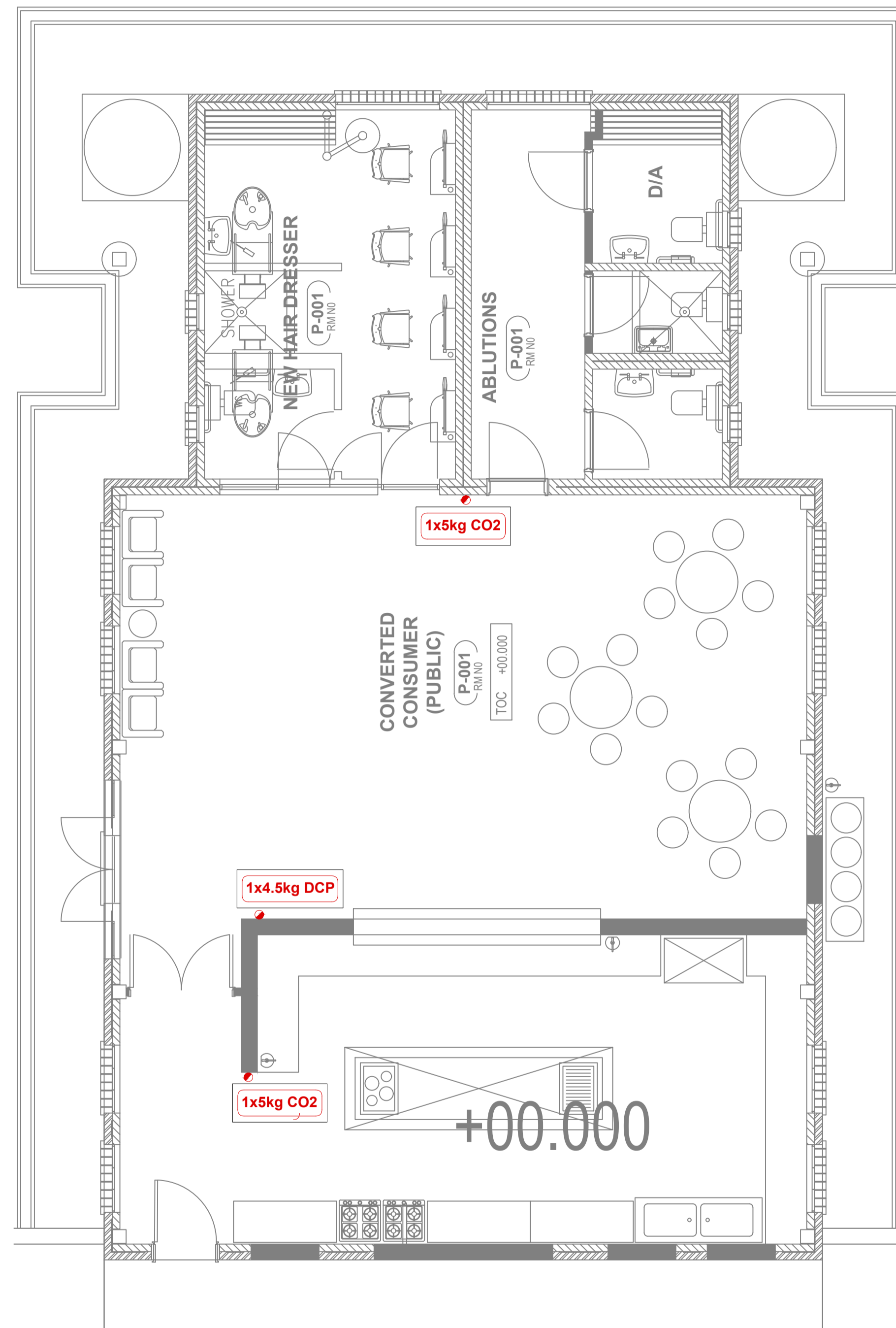
drawing number

ME-0031-FE-05





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FIRE EQUIPMENT LAYOUT



PUBLIC INTERACTION
FIRE EQUIPMENT LAYOUT

FIRE INSTALLATION NOTES																																		
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Fax: +27 43 531 1198 Fax: +27 43 742 0023 Fax: +27 39 727 1965

discipline: **MECHANICAL ENGINEER**

service: **SIVE / MALUTI
SPECIAL SCHOOL PHASE-2**

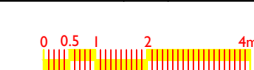
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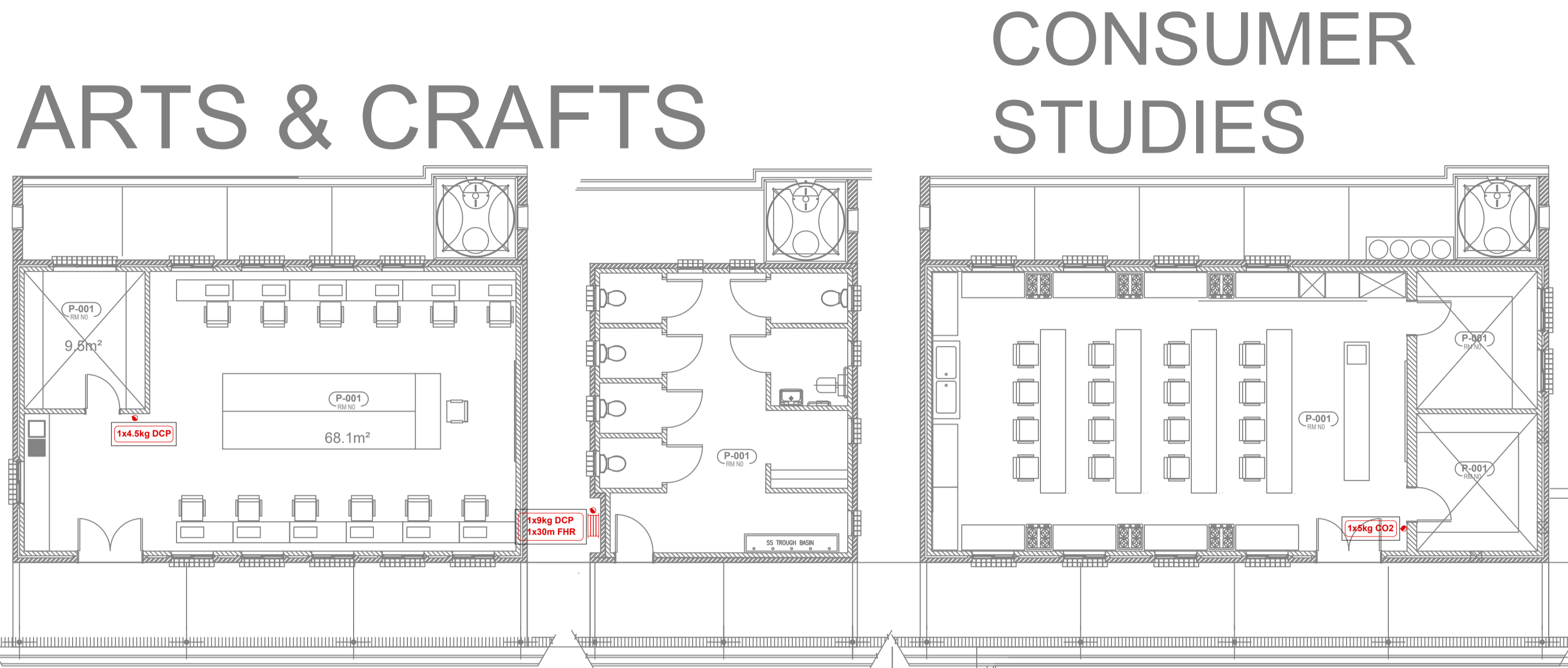
drawing title: **CLASSROOMS-2
FIRE EQUIPMENT LAYOUT**

designed	Mr. M.C. Mntu
scale	N.T.C.
date	April 2023
checked	Mr. L. Maja
drawn	Mr. N. Kekane

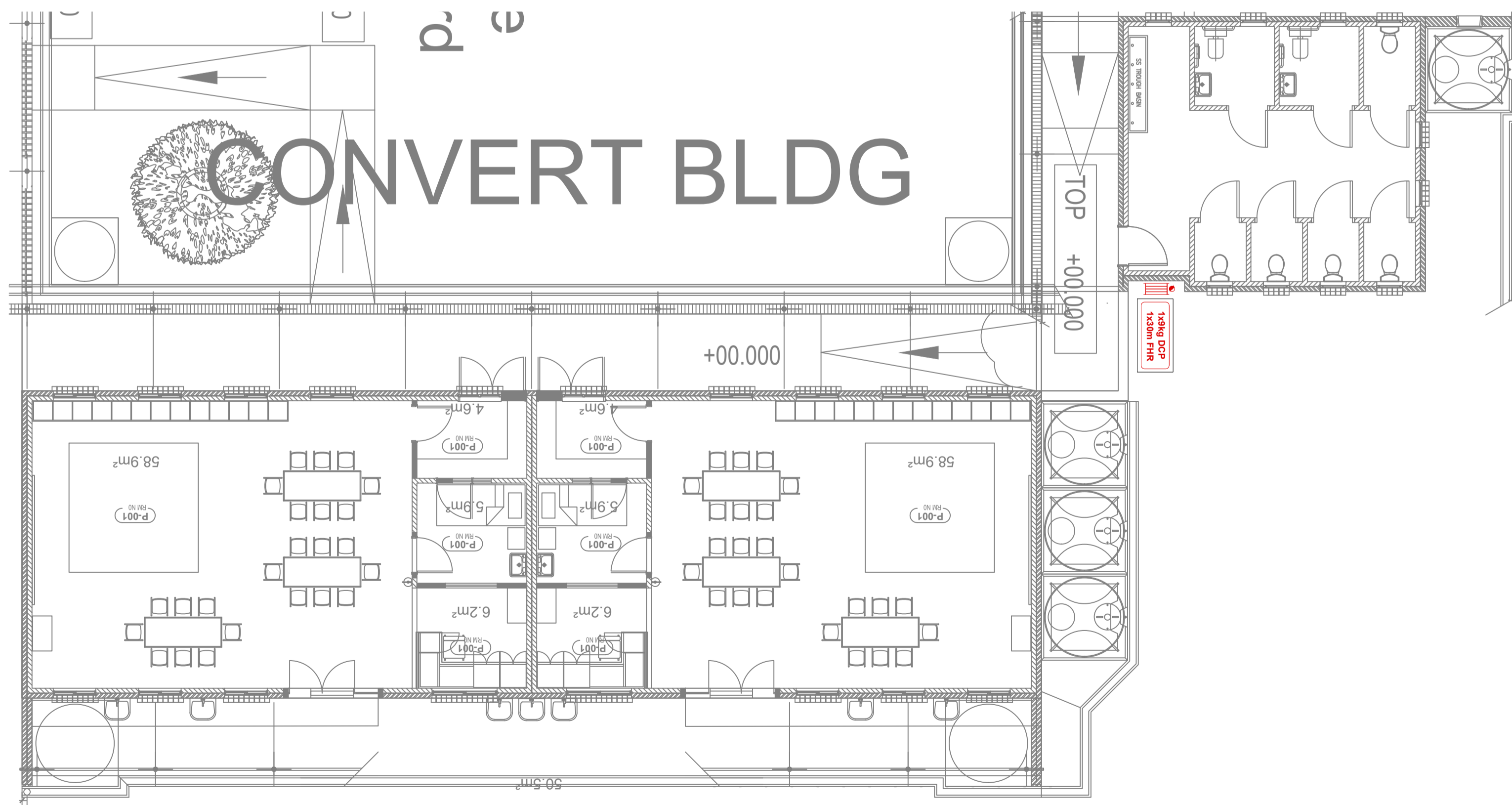
drawing number: **ME-0031-FE-06**

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ARTS CRAFT & CONSUMER STUDIES
FIRE EQUIPMENT LAYOUT



CONVERT BLDG
FIRE EQUIPMENT LAYOUT

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SYMBOLIC SAFETY SIGNAGE																																														
<ol style="list-style-type: none"> ALL FIRE SIGNS MUST BE PHOTO LUMINESCENT ALL SIGNS MUST BE MECHANICAL FIXED, SILICONE OR DOUBLE SIDED TYPE NOT ACCEPTABLE ALL SIGNS MUST BE INDICATE SABS STAMP OF APPROVAL ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS 																																														
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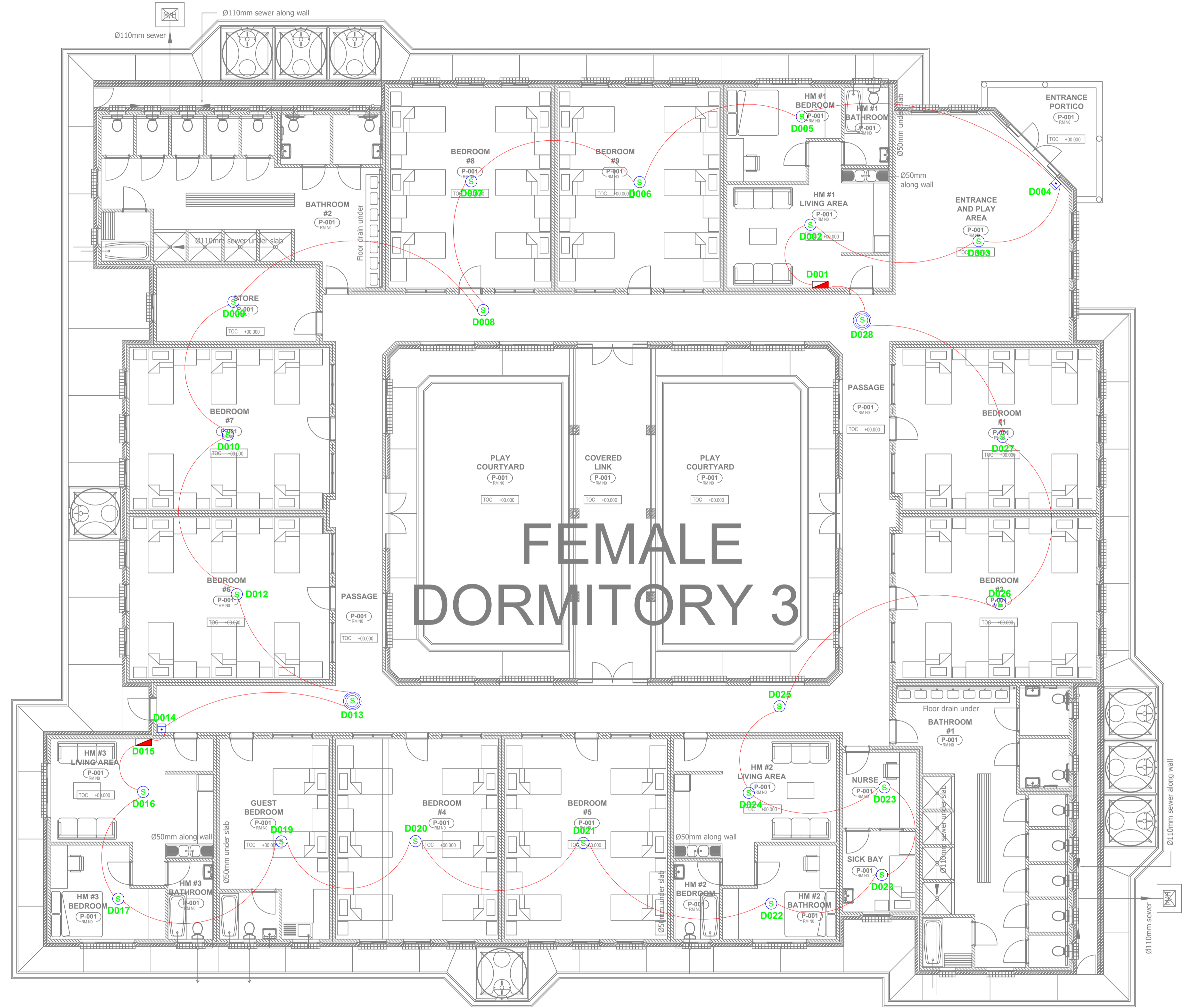
service: **SIVE / MALUTI
SPECIAL SCHOOL PHASE-2**

WCS number: _____

drawing title: **CLASSROOMS-3
FIRE EQUIPMENT LAYOUT**

ref no: B assigned: Mr. M.C Mntu
scale: N.T.C drawn: Mr. L. Maja
date: April 2023 checked: Mr. N. Kekane

drawing number: **ME-0031-FE-07**



FIRE INSTALLATION NOTES		
DESCRIPTION	SYMBOL	QTY
SMOKE DETECTORS	(S)	22
HEAT DETECTORS	(H)	3
MANUAL CAL POINT	(M)	2
SOUNDER	(SOUND)	2
PANEL	(P)	1

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS)
- THE LEFT SHAFT IS TO BE POSITIVELY PRESSURISED ON FIRE CONDITIONS
- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1910
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SABS S43 AND INSTALLED ACCORDING WITH SANS 10105-1
- ALL FIRE HOSE REELS SHALL BE COMPLETE WITH 30 METERS OF HOSE AND SHALL HAVE A MINIMUM FLOW RATE OF 0.316 AT 200kPa

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20L AT 200kPa

SYMBOLIC SAFETY SIGNAGE

- SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SABS 1186 PART V AND SHALL OF THE PHOTO LUMINESCENT TYPE
- SIGNAGE BE INSTALLED SUCH AS TO CLEARLY INDICATE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES
- EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE STAIRS
- SIGNAGE ON DRAWINGS IS AN INDICATION OF SIGNAGE REQUIRED
- FIRE 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 FIRE ESCAPE OFFICER

FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10119

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

- EMERGENCY LIGHTING
- FIRE DETECTION AND ALARM
- PRESSURIZATION OR SMOKE EXTRACT FANS
- HOMING OF LIFTS
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- EMERGENCY ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES
- FEEDER ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE WORKMONGERY

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1100mm UNLESS SHOWN OTHERWISE ON DRAWINGS
- ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS

SYMBOLIC SAFETY SIGNAGE

- ALL FIRE SIGNS MUST BE PHOTO LUMINESCENT
- ALL SIGNS MUST BE MECHANICAL FIXED, SIGNAGE OR DOUBLE SIDED TAPE NOT ACCEPTABLE
- ALL SIGNS MUST BE INDICATE SIGNS STAMP OF APPROVAL
- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

A	CEILING MOUNTED (SUSPENSION) SIGN	G	GLASS E SELF CLOSING FIRE DOOR
B	WALL MOUNTED SIGN	H	GLASS B SELF CLOSING FIRE DOOR
C	SIGN MOUNTED ABOVE DOOR	I	120MIN FIRE RATED LIFT LANDING DOOR
D	CEILING MOUNTED (SUSPENSION) SIGN	J	DOUBLE SWING DOORS
E	FIXED PERPENDICULAR TO WALL	K	INDICATES DOUBLE SIDED
L	GLASS A SELF CLOSING FIRE DOOR	M	GLASS D SELF CLOSING FIRE DOOR
M	GLASS C SELF CLOSING FIRE DOOR	N	EMERGENCY GATE/DOOR RELEASE
N	GLASS D SELF CLOSING FIRE DOOR	O	GREEN BREAK GLASS UNIT

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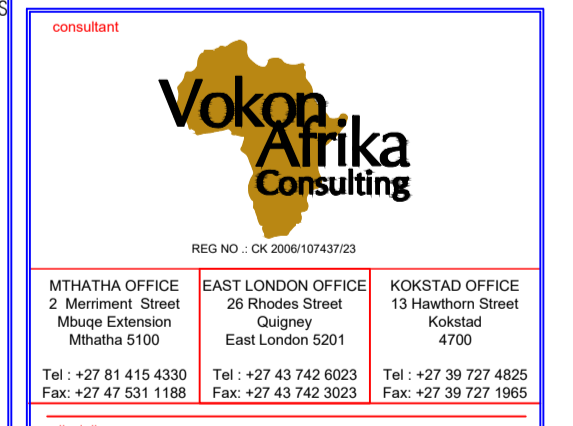
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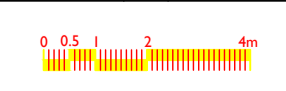
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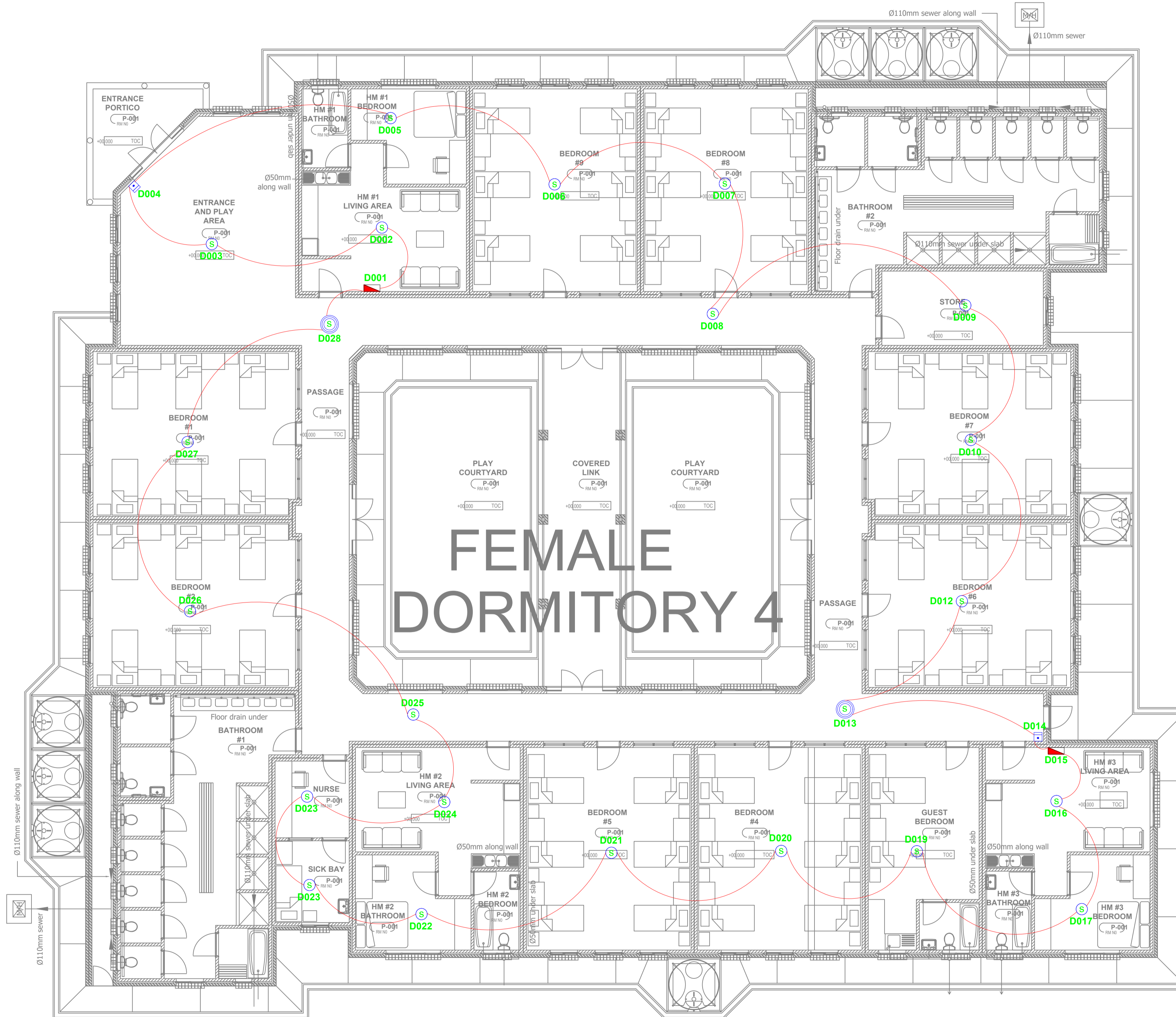
ref no: B assigned: Mr. M.C Mntu

scale: N.T.C drawn: Mr. L. Maja

date: April 2023 checked: Mr. N. Kekane

drawing number: **ME-0031-FD-02**





FEMALE DORMITORY 4

FIRE INSTALLATION NOTES		
DESCRIPTION	SYMBOL	QTY
SMOKE DETECTORS	(S)	22
HEAT DETECTORS	(H)	3
MANUAL CAL POINT	(M)	2
SOUNDER	(S)	2
PANEL	(P)	1

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT.
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS).
- THE LIFT SHAFT IS TO BE POSITIVELY PRESSURISED ON FIRE CONDITIONS.
- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1910.
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SABS S43 AND INSTALLED ACCORDING WITH SANS 10105-1.
- ALL FIRE HOSE REELS SHALL BE COMPLETE WITH 30 METERS OF HOSE AND SHALL HAVE A MINIMUM FLOW RATE OF 0.316 AT 200kPa.

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20kPa AT 200kPa.

SYMBOLIC SAFETY SIGNAGE

- SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SABS 1186 PART V AND SHALL OF THE PHOTO LUMINESCENT TYPE.
- SIGNAGE BE INSTALLED SUCH AS TO CLEARLY INDICATE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES.
- EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE STAIRS, SIGNAGE ON DRAWINGS IS AN INDICATION OF SIGNAGE REQUIRED.
- FIRE 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 FIRE OFFICER.

FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10119.

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

- EMERGENCY LIGHTING
- FIRE DETECTION AND ALARM
- PRESSURIZATION OR SMOKE EXTRACT FANS
- HOMING OF LIFTS
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- EMERGENCY ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES.
- FEEDER ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES.

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE ROOMWASHERY.

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1100mm UNLESS SHOWN OTHERWISE ON DRAWINGS.
- ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS.

SYMBOLIC SAFETY SIGNAGE

- ALL FIRE SIGNS MUST BE PHOTO LUMINESCENT
- ALL SIGNS MUST BE MECHANICALLY FIXED, SIGNAGE OR DOUBLE SIDED TAPE NOT ACCEPTABLE
- ALL SIGNS MUST BE INDICATE SABS STAMP OF APPROVAL
- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS.

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

(A)	CEILING MOUNTED (SUSPENSION SIGN)	(G)	GLASS E SELF CLOSING FIRE DOOR
(B)	WALL MOUNTED SIGN	(H)	GLASS S SELF CLOSING FIRE DOOR
(C)	SIGN MOUNTED ABOVE DOOR	(I)	120MM FIRE RATED LIFT LANDING DOOR
(D)	CEILING MOUNTED (SUSPENSION SIGN)	(J)	DOUBLE SWING DOORS
(E)	FIXED PERPENDICULAR TO WALL	(K)	GLASS D SELF CLOSING FIRE DOOR
(F)		(L)	EMERGENCY GATE/DOOR RELEASE GREEN BREAK GLASS UNIT

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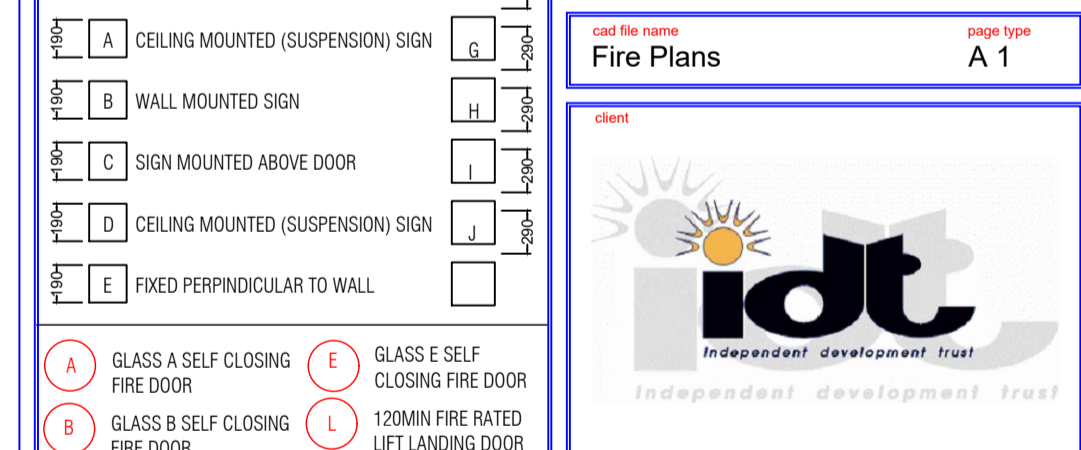
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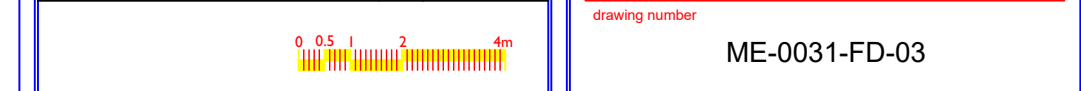
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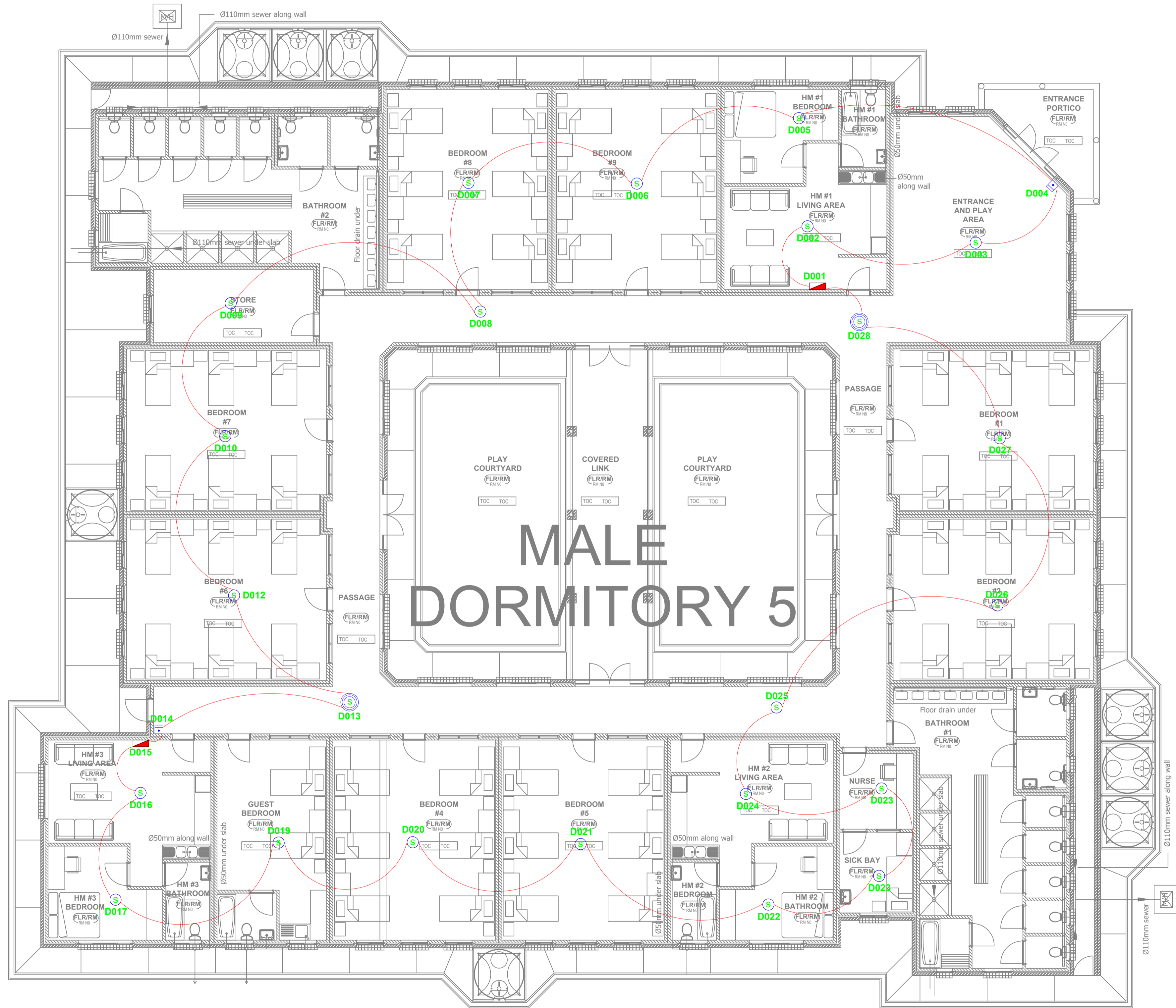
FEMALE DORMITORY - 4 FIRE DETECTION LAYOUT

ref no: B assigned: Mr. M.C Mntu
 scale: N.T.C drawn: Mr. L. Maja
 date: April 2023 checked: Mr. N. Kekane
 drawing number

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FIRE INSTALLATION NOTES		
DESCRIPTION	SYMBOL	QTY
SMOKE DETECTORS	(S)	22
HEAT DETECTORS	(H)	3
MANUAL CAL POINT	(M)	2
SOUNDER	(S)	2
PANEL	(P)	1

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT.
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS).
- THE LIFT SHAFT IS TO BE POSITIVELY PRESSURISED ON FIRE CONDITIONS.
- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1910.
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SABS S43 AND INSTALLED ACCORDING WITH SANS 10105-1.
- ALL FIRE HOSE REELS SHALL BE COMPLETE WITH 30 METERS OF HOSE AND SHALL HAVE A MINIMUM FLOW RATE OF 0.3 l/s AT 200kPa.

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20 l/s AT 200kPa.

SYMBOLIC SAFETY SIGNAGE

- SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SABS 1186 PART V AND SHALL OF THE PHOTOLUMINESCENT TYPE.
- SIGNAGE BE INSTALLED SUCH AS TO CLEARLY INDICATE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES.
- EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE STAIRS, SIGNAGE ON DRAWINGS IS AN INDICATION OF SIGNAGE REQUIRED.
- FIRE 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 FIRE OFFICER.

FIRE DOORS OF THE RATING AND WIDTH AS INDICATED ON THE DRAWINGS. SHALL BE INSTALLED AND SHALL COMPLY WITH SANS 10119.

FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10119.

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

- EMERGENCY LIGHTING
- FIRE DETECTION AND ALARM
- PRESSURIZATION OR SMOKE EXTRACT FANS
- HOMING OF LIFTS
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- EMERGENCY ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES.
- FEEDER ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES.

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE WORKMONGERY.

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STARWAYS SHALL HAVE MINIMUM WIDTH OF 1100mm UNLESS SHOWN OTHERWISE ON DRAWINGS.
- ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS.

SYMBOLIC SAFETY SIGNAGE

- ALL FIRE SIGNS MUST BE PHOTO LUMINESCENT
- ALL SIGNS MUST BE MECHANICALLY FIXED, SIGNAGE OR DOUBLE SIDED TAPE NOT ACCEPTABLE
- ALL SIGNS MUST BE INDICATE SABS STAMP OF APPROVAL
- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS.

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

(A)	CEILING MOUNTED (SUSPENSION) SIGN	(G)	GLASS E SELF CLOSING FIRE DOOR
(B)	WALL MOUNTED SIGN	(H)	GLASS B SELF CLOSING FIRE DOOR
(C)	SIGN MOUNTED ABOVE DOOR	(I)	120MIN FIRE RATED LIFT LANDING DOOR
(D)	CEILING MOUNTED (SUSPENSION) SIGN	(J)	GLASS C SELF CLOSING FIRE DOOR
(E)	FIXED PERPENDICULAR TO WALL	(K)	GLASS D SELF CLOSING FIRE DOOR
(F)	FIXED PERPENDICULAR TO WALL	(L)	INDICATES DOUBLE SIDED
(G)	GLASS A SELF CLOSING FIRE DOOR	(M)	EMERGENCY GATE/DOOR RELEASE
(H)	GLASS B SELF CLOSING FIRE DOOR	(N)	GREEN BREAK GLASS UNIT
(I)	120MIN FIRE RATED LIFT LANDING DOOR		
(J)	GLASS C SELF CLOSING FIRE DOOR		
(K)	GLASS D SELF CLOSING FIRE DOOR		

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SPECIAL SCHOOL PHASE-2**

WCS number

drawing title

**MALE DORMITORY- 5
FIRE DETECTION LAYOUT**

ref no: B assigned: Mr. M.C Mntu
scale: N.T.C drawn: Mr. L. Maja
date: April 2023 checked: Mr. N. Kekane

drawing number

ME-0031-FD-04



FIRE INSTALLATION NOTES		
DESCRIPTION	SYMBOL	QTY
SMOKE DETECTORS		48
HEAT DETECTORS		3
MANUAL CAL POINT		2
SOUNDER		3
PANEL		1

GENERAL NOTES

- ALL PRIMARY CO-ORDINATION TO BE THE RESPONSIBILITY OF THE PRINCIPLE AGENT
- ALL VERTICAL OPENINGS AND SERVICE SHAFTS BETWEEN FLOORS SHALL BE FIRE STOPPED (2 HOURS)
- THE LEFT SHAFT IS TO BE POSITIVELY PRESSURISED ON FIRE CONDITIONS
- HAND HELD FIRE EXTINGUISHERS AND HYDRANTS ARE TO BE PROVIDED AS INDICATED ON THE RELEVANT PLAN DRAWINGS.

PORTABLE FIRE EXTINGUISHER

- FIRE EXTINGUISHERS SHALL BE 4.5kg AND 9kg DRY CHEMICAL POWDER TYPE AND SHALL COMPLY WITH SANS 1910.
- ALL FIRE EXTINGUISHERS SHALL BE MOUNTED ON A WOODEN BACKING BOARD.

FIRE HOSE REELS

- FIRE HOSE REELS SHALL CONFORM TO SANS 543 AND INSTALLED ACCORDING WITH SANS 10105-1.
- ALL FIRE HOSE REELS SHALL BE COMPLETE WITH 30 METERS OF HOSE AND SHALL HAVE A MINIMUM FLOW RATE OF 0.3 l/s AT 200kPa.

FIRE HYDRANTS

- FIRE HYDRANTS SHALL COMPLY WITH SANS 1128 AND HAVE MINIMUM FLOW RATE OF 20 l/s AT 200kPa.

SYMBOLIC SAFETY SIGNAGE

- SYMBOLIC SAFETY SIGNAGE SHALL COMPLY WITH SANS 1186 PART V AND SHALL OF THE PHOTO LUMINESCENT TYPE
- SIGNAGE BE INSTALLED SUCH AS TO CLEARLY INDICATE POSITIONS OF ALL FIRE EQUIPMENT AND ESCAPE ROUTES.
- EACH FLOOR LEVEL SHALL BE NUMBERED IN THE ESCAPE SIGNAGE. SIGNAGE ON DRAWINGS IS AN INDICATION OF SIGNAGE REQUIRED.
- FIRE 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 FIRE OFFICER.

FIRE DOORS OF THE RATING AND WIDTH AS INDICATED ON THE DRAWINGS. SHALL BE INSTALLED AND SHALL COMPLY WITH SANS 10119.

FIRE ALARM OR FIRE DETECTION

- FIRE DETECTION AND ALARM SYSTEM SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH SANS 10119.

EMERGENCY POWER

THE FOLLOWING SHALL BE SUPPLIED WITH AN EMERGENCY POWER SUPPLY FOR 60 MINUTES:

- EMERGENCY LIGHTING
- FIRE DETECTION AND ALARM
- PRESSURIZATION OR SMOKE EXTRACT FANS
- HOMING OF LIFTS
- FIREMANS LIFT

EMERGENCY LIGHTING

EMERGENCY LIGHTING SHALL BE INSTALLED IN:

- EMERGENCY ROUTES TO PROVIDE A MINIMUM OF 50 lux FOR A PERIOD OF 120 MINUTES
- FEEDER ROUTES TO PROVIDE A MINIMUM OF 0.3 lux AT AN UNIFORM RATIO OF NOT MORE THAN 40:1 FOR MORE THAN PERIOD OF 120 MINUTES

ESCAPE DOORS

- ALL ESCAPE DOORS SHALL BE COMPLETE WITH FIRE ESCAPE WORKMONGERY.

FIRE ESCAPE ROUTES

- FIRE ESCAPE ROUTES, INCLUDING CORRIDORS AND STAIRWAYS SHALL HAVE MINIMUM WIDTH OF 1100mm UNLESS SHOWN OTHERWISE ON DRAWINGS.
- ALL EMERGENCY ROUTES SHALL HAVE A FIRE RESISTANCE AS INDICATED ON THE DRAWINGS.

SYMBOLIC SAFETY SIGNAGE

- ALL FIRE SIGNS MUST BE PHOTO LUMINESCENT
- ALL SIGNS MUST BE MECHANICALLY FIXED, SILICONE OR DOUBLE SIDED TAPE NOT ACCEPTABLE
- ALL SIGNS MUST BE INDICATE SIGNS STAMP OF APPROVAL
- ALL SIGNS TO BE WALL MOUNTED AND CEILING MOUNTED ACCORDING TO ARCHITECTS SIGNAGE DETAILS.

RATIONAL FIRE OR FIRE SIGNAGE LEGEND

	CEILING MOUNTED (SUSPENSION) SIGN		WALL MOUNTED SIGN
	SIGN MOUNTED ABOVE DOOR		CEILING MOUNTED (SUSPENSION) SIGN
	FIXED PERPENDICULAR TO WALL		GLASS A SELF CLOSING FIRE DOOR
	GLASS B SELF CLOSING FIRE DOOR		GLASS C SELF CLOSING FIRE DOOR
	GLASS D SELF CLOSING FIRE DOOR		GLASS E SELF CLOSING FIRE DOOR
	GLASS L 120MIN FIRE RATED LIFT LANDING DOOR		DOUBLE SWING DOORS
	EMERGENCY GATE/DOOR RELEASE GREEN BREAK GLASS UNIT		INDICATES DOUBLE SIDED

DRAWING STATUS	
Description	Approved AS, BY
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Issued For Information Only	
Issued For Preliminary Only	
Issued For Tender Only	
Issued For Construction	
AS Built Drawing	

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NO.	AMENDMENT	ENG

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REG NO: CK 300810143703

MITHATHA OFFICE 2 Merrimont Street Mthatha 5100	EAST LONDON OFFICE 26 Rhodes Street Dunoiy East London 5201	KOKSTAD OFFICE 13 Hawthorn Street Kokstad 4700
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Tel: +27 81 415 4330 Tel: +27 43 742 0023 Tel: +27 39 727 4825
 Fax: +27 43 531 1198 Fax: +27 43 742 0023 Fax: +27 39 727 1965

discipline: MECHANICAL ENGINEER

service: SIVE / MALUTI SPECIAL SCHOOL PHASE-2

WCS number: _____

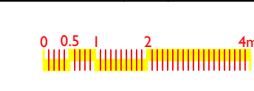
drawing title: CLASSROOM - 1 FIRE DETECTION LAYOUT

ref no: B assigned: Mr. M.C Mntu

scale: N.T.C drawn: Mr. L. Maja

date: April 2023 checked: Mr. N. Kekane

drawing number: ME-0031-FD-05



ARTS & CRAFTS

CONSUMER STUDIES

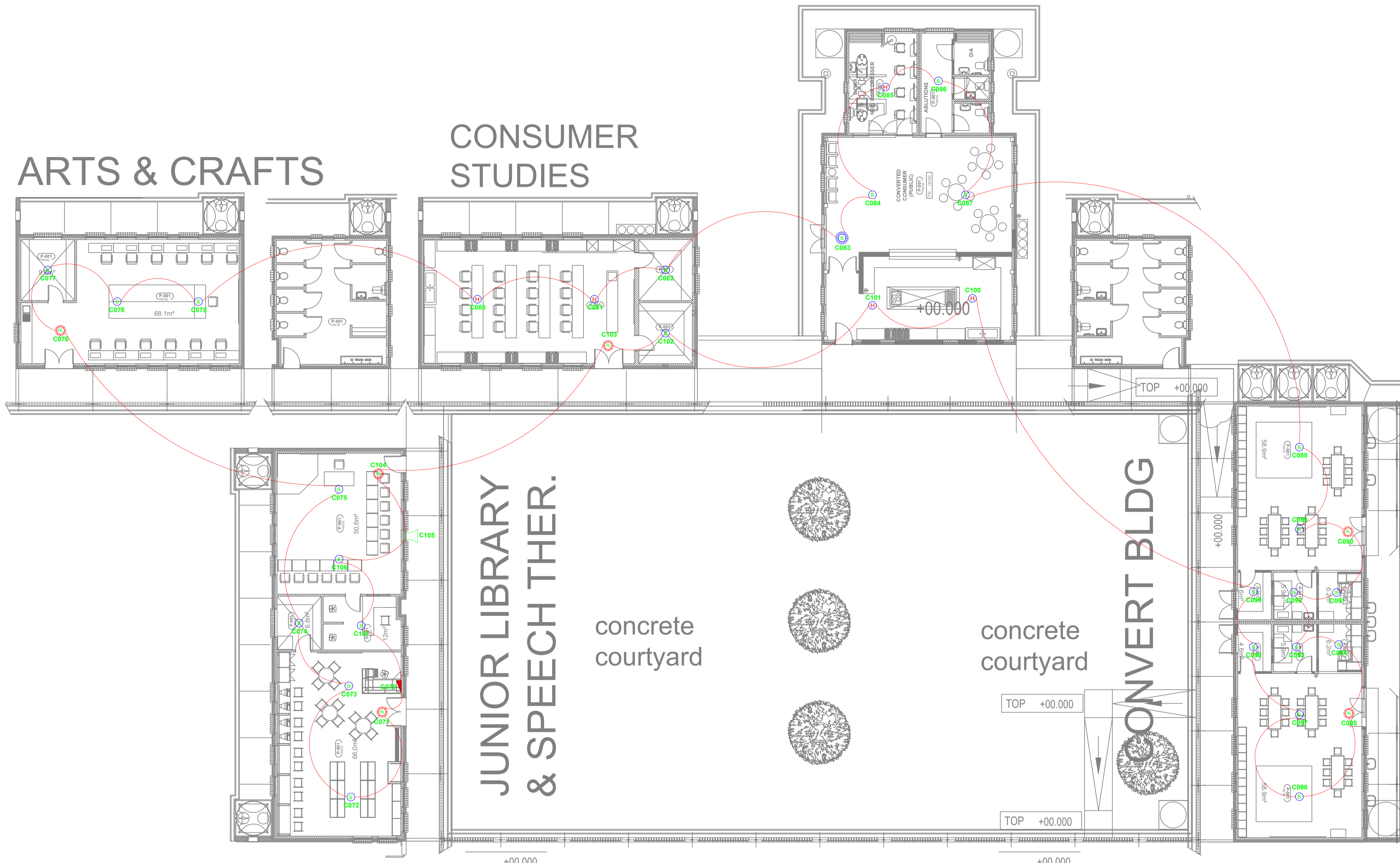
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CONVERT BLDG

concrete courtyard

concrete courtyard



FIRE INSTALLATION NOTES		
DESCRIPTION	SYMBOL	QTY
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HEAT DETECTORS		3
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FIRE ALARM OR FIRE DETECTION

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EMERGENCY POWER

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RATIONAL FIRE OR FIRE SIGNAGE LEGEND

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Description	Approved AS, BY	
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Issued For Tender Only		
Issued For Construction		
Issued For Final Construction		
AS Built Drawing		

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discipline: MECHANICAL ENGINEER

service: SIVE / MALUTI SPECIAL SCHOOL PHASE-2

WCS number: _____

drawing title: CLASSROOM - 2 FIRE DETECTION LAYOUT

ref no: B assigned: Mr. M.C Mntu

scale: N.T.C drawn: Mr. L. Maja

date: April 2023 checked: Mr. N. Kekane

drawing number: ME-0031-FD-06