

I.G.M HOSPITAL

FIRE FIGHTING SYSTEM

FIRE DETECTOR & ALARM SYSTEM

REVISION
28 JULY 2021



Indhira Gandhi
Memorial Hospital

I.G.M HOSPITAL

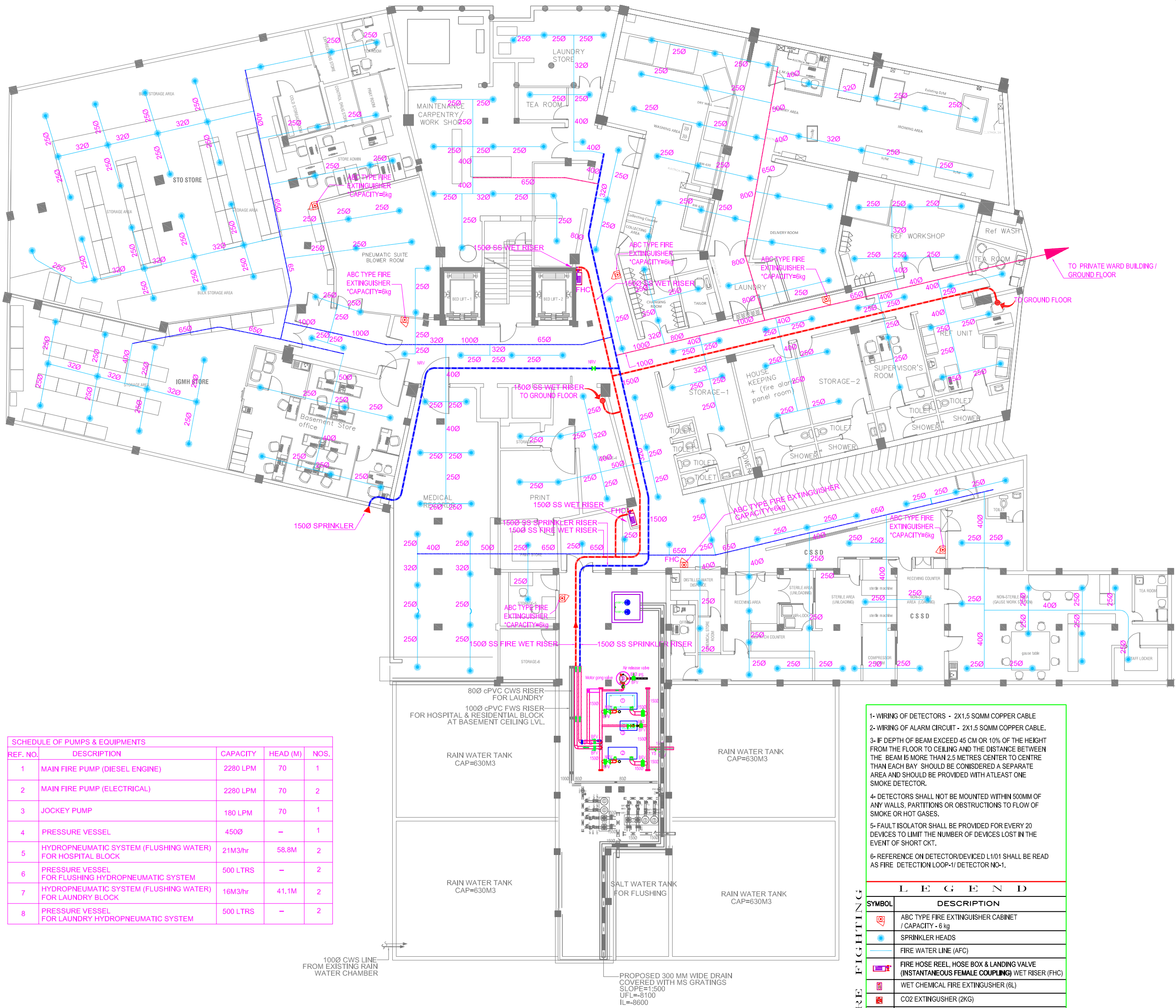
FIRE FIGHTING SYSTEM



Indhira Gandhi
Memorial Hospital

BASEMENT - FIRE FIGHTING SYSTEM

SCALE: 1: 200



SCHEDULE OF PUMPS & EQUIPMENTS			
REF. NO.	DESCRIPTION	CAPACITY	HEAD (M)
1	MAIN FIRE PUMP (DIESEL ENGINE)	2280 LPM	70
2	MAIN FIRE PUMP (ELECTRICAL)	2280 LPM	70
3	JOCKEY PUMP	180 LPM	70
4	PRESSURE VESSEL	4500	—
5	HYDRO-PNEUMATIC SYSTEM (FLUSHING WATER) FOR HOSPITAL BLOCK	21M3@ 58.8M	2
6	PRESSURE VESSEL FOR FLUSHING HYDRO-PNEUMATIC SYSTEM	500 LTRS	—
7	HYDRO-PNEUMATIC SYSTEM (FLUSHING WATER) FOR LAUNDRY BLOCK	16M3@ 41.1M	2
8	PRESSURE VESSEL FOR LAUNDRY HYDRO-PNEUMATIC SYSTEM	500 LTRS	—

1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE
2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE
3- IF DEPTH OF BEAM EXCEED 45 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER THEN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH ATLEAST ONE SMOKE DETECTOR
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 50MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRC
6- REFERENCE ON DETECTOR (DEVIDED L101 SHALL BE READ AS FIRE DETECTION LOOP-1/ DETECTOR NO-1.

SYMBOL	DESCRIPTION
ABC TYPE FIRE EXTINGUISHER CABINET	ABC TYPE FIRE EXTINGUISHER CABINET / CAPACITY - 6kg
SPRINKLER HEAD	SPRINKLER HEAD
FIRE WATER LINE (AWC)	FIRE WATER LINE (AWC)
FIRE HOSE REEL HOSE BOX & LANDING VALVE (INSTANTANEOUS FEMALE COUPLING) WET RISER (PHG)	FIRE HOSE REEL HOSE BOX & LANDING VALVE (INSTANTANEOUS FEMALE COUPLING) WET RISER (PHG)
WET CHEMICAL FIRE EXTINGUISHER (KG)	WET CHEMICAL FIRE EXTINGUISHER (KG)
CO2 EXTINGUISHER (KG)	CO2 EXTINGUISHER (KG)
FIRE BLANKET	FIRE BLANKET
FOAM TROLLEY FIRE EXTINGUISHER (50 L)	FOAM TROLLEY FIRE EXTINGUISHER (50 L)
DOP TROLLEY FIRE EXTINGUISHER (50 KG)	DOP TROLLEY FIRE EXTINGUISHER (50 KG)
2 WAY OUTDOOR PILLAR FIRE HYDRANT (2x2.5" control valve with female BS)	2 WAY OUTDOOR PILLAR FIRE HYDRANT (2x2.5" control valve with female BS)

Project :
DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :
FIRE FIGHTING DRAWING

Location :
IGM Hospital (Maldives)

Designed :
M. Naushad
M. Husham
Checked :
Fire & Rescue Service
M. N. D. F

scale - AS SHOWN
print - A1

Date: 07.08.2021

Revisions:
R4 - 28 JULY 2021

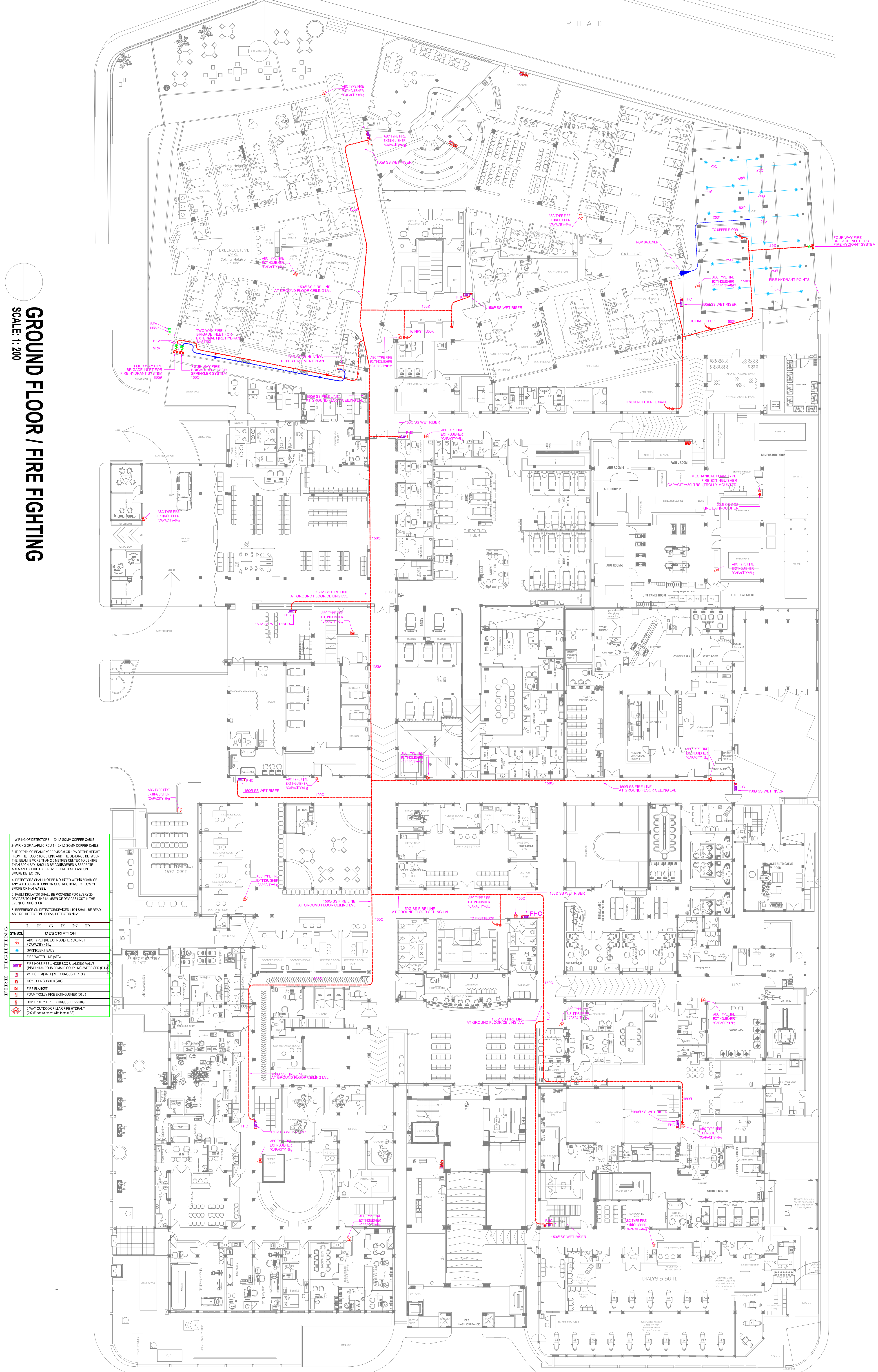
Note :
This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

APPROVED :

The contractors must check all dimensions on site prior to the commencement of any work.



Indira Gandhi
Memorial Hospital



GROUND FLOOR / FIRE FIGHTING

SCALE: 1: 200

- 1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE
- 2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE
- 3- IF DEPTH OF BEAM EXCEEDS 4CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM MORE THAN 2 METRES CENTER TO CENTER THAN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH AT LEAST ONE SMOKE DETECTOR
- 4- DETECTORS SHALL NOT BE MOUNTED WITHIN 50MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.
- 5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT Ckt.
- 6- REFERENCE ON DETECTOR/DEVICE LIST SHALL BE READ AS FIRE DETECTION LOOP/ DETECTION NO.

LEGEND	
SYMBOL	DESCRIPTION
	ABC TYPE FIRE EXTINGUISHER CABINET / CAPACITY - 45kg
	SPRINKLER HEADS
	FIRE WATER LINE (F.W.)
	FIRE HOSE REEL, HOSE BOX & LANDING VALVE (INSTANTANEOUS RELEASE COUPLING) WET RISER (F.H.C)
	WET CHEMICAL FIRE EXTINGUISHER (W.C.)
	CO2 EXTINGUISHER (CO2)
	FIRE BLANKET
	FOAM TROLLEY FIRE EXTINGUISHER (S.L.)
	DOP TROLLEY FIRE EXTINGUISHER (S.KG)
	2 WAY OUTDOOR DELAY FIRE HYDRANT (D.O.D) control valve with remote BS

Project :
DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :
FIRE FIGHTING DRAWING

Location :
IGM Hospital (Maldives)

Designed :
M. Naushad
M. Husham

Checked :
Fire & Rescue Service
M.N.D.F

scale - AS SHOWN
print - A1

Date : 07.08.2021

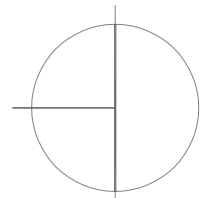
Revisions :
R4 - 28 JULY 2021

Note :
This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

APPROVED :

The contractors must check all dimensions on site prior to the commencement of any work.

Indira Gandhi Memorial Hospital



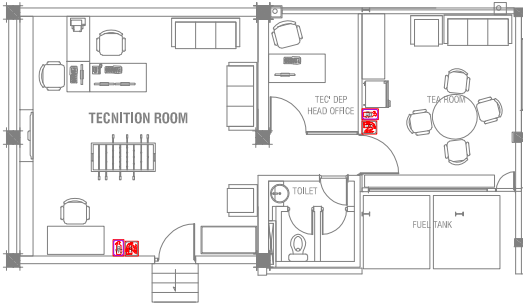
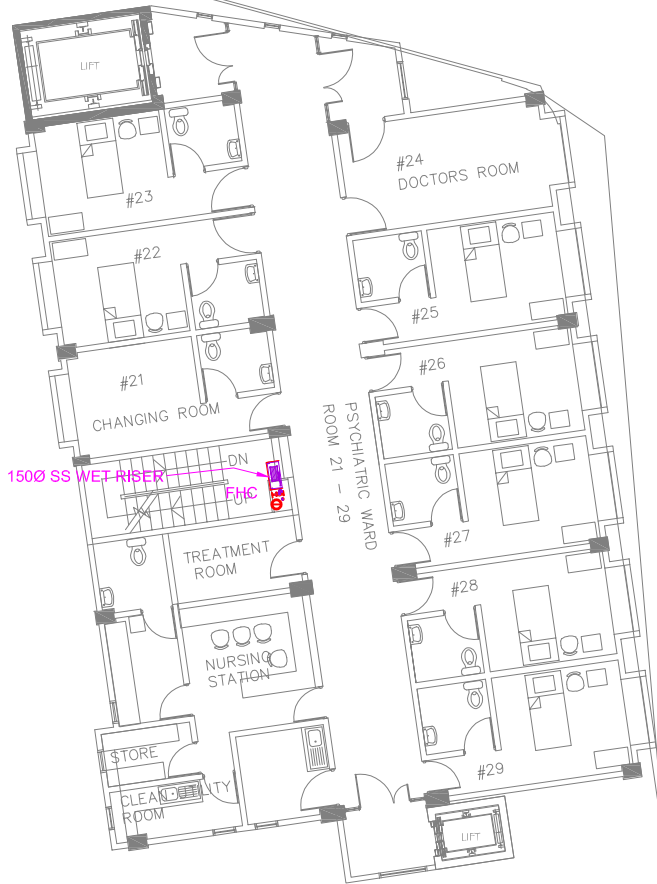
MEZZANINE FLOOR / FIRE FIGHTING

SCALE: 1: 200

FIRE FIGHTING

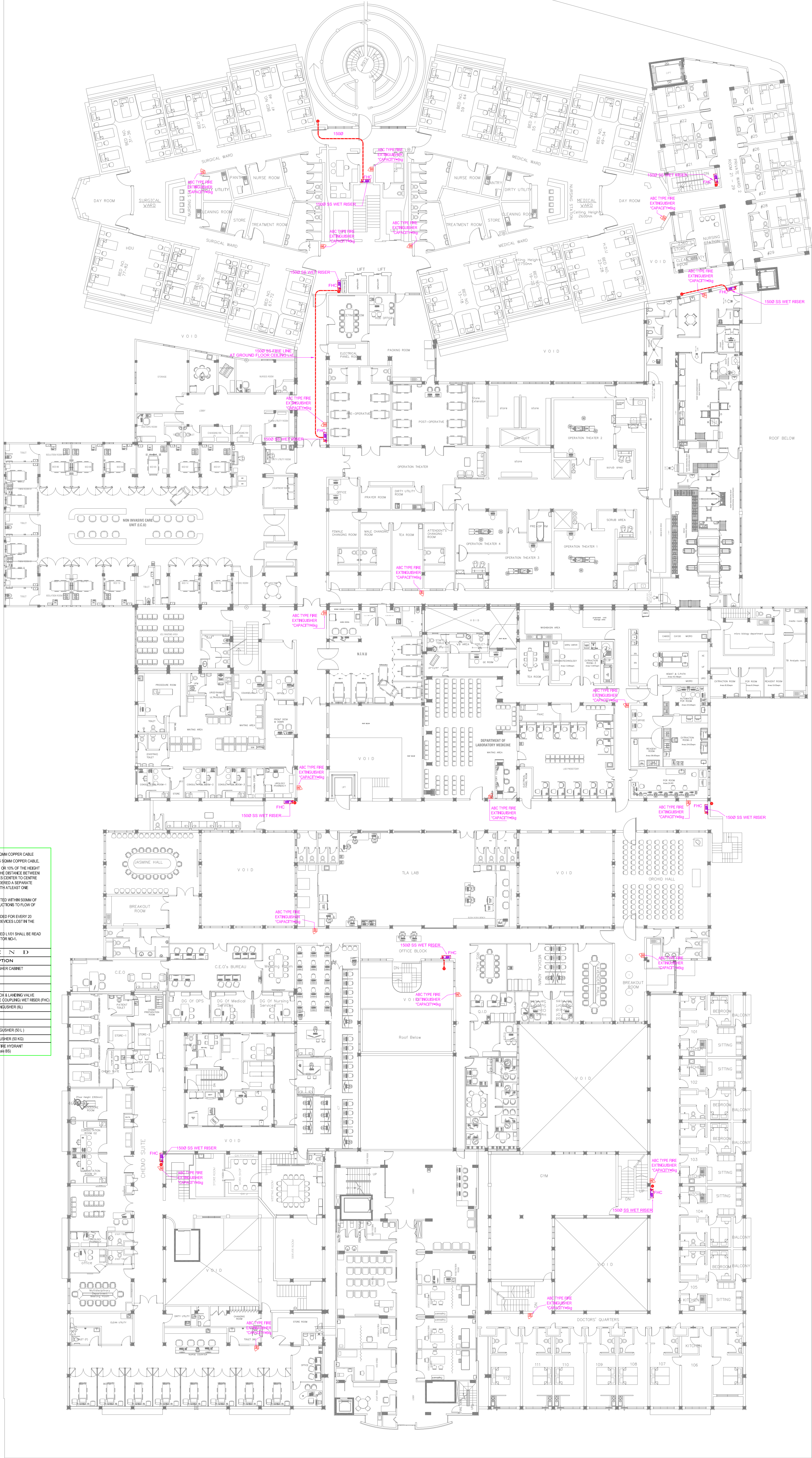
1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE	
2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE	
3- IF DEPTH OF BEAM EXCEEDS 40 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.0 METRES CENTER TO CENTER, THEN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH ATLEAST ONE SMOKE DETECTOR.	
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 50MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.	
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRCUIT.	
6- REFERENCE ON DETECTOR/DEVICES L101 SHALL BE READ AS FIRE DETECTION LOOP-II DETECTOR NO-1.	

L E G E N D	
SYMBOL	DESCRIPTION
	ABC TYPE FIRE EXTINGUISHER CABINET (CAPACITY - 40 kg)
	SPRINKLER HEADS
	FIRE WATER LINE (AFC)
	FIRE HOSE REEL, HOSE BOX & LANDING VALVE (INSTANTANEOUS TWINLE COUPLING) NET RISER (PHC)
	WET CHEMICAL FIRE EXTINGUISHER (W)
	CO2 EXTINGUISHER (2KG)
	FIRE BLANKET
	FOAM TROLLEY FIRE EXTINGUISHER (50 L)
	DCP TROLLEY FIRE EXTINGUISHER (50 KG)
	2 WAY OUTDOOR PILLAR FIRE HYDRANT (20.0" control valve with female BS)



FIRST FLOOR / FIRE FIGHTING

SCALE: 1: 200



LEGEND	
1- WIRING OF DETECTORS - 2X1/2 SOHM COPPER CABLE	
2- WIRING OF ALARM CIRCUIT - 2X1/2 SOHM COPPER CABLE	
3- F DEPTH OF BEAM EXCEED 45 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER. EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH AT LEAST ONE SMOKE DETECTOR.	
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 300MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.	
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT Ckt.	
6- REFERENCE ON DETECTOR DEVICES L101 SHALL BE READ AS FIRE DETECTION LOOP-1 DETECTOR NO-1.	
SYMBOL	DESCRIPTION
	ABC TYPE FIRE EXTINGUISHER CABINET (CAPACITY-4kg)
	SPRINKLER HEADS
	FIRE WATER LINE (AWC)
	FIRE HOSE REEL, HOSE BOX & LANDING VALVE (INSTANTANEOUS FEMALE COUPLING WET RISER (FHC))
	WET CHEMICAL FIRE EXTINGUISHER (IL)
	CO2 EXTINGUISHER (2KG)
	FIRE BLANKET
	FOAM TROLLEY FIRE EXTINGUISHER (50 L)
	DOP TROLLEY FIRE EXTINGUISHER (50 KG)
	2 WAY OUTDOOR PILLAR FIRE HYDRANT (200' SERVICE AREA WITH TOWER 50)

Project :
DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :
FIRE FIGHTING DRAWING

Location :
IGM Hospital (Maldives)

Designed :
M. Naushad
M. Husham
Checked :
Fire & Rescue Service
M. N. D. F.

scale - AS SHOWN
print - A1

Date: 07.08.2021

Revisions:
R4 - 28 JULY 2021

Note :
This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

APPROVED :

The contractors must check all dimensions on site prior to the commencement of any work.



Indira Gandhi
Memorial Hospital

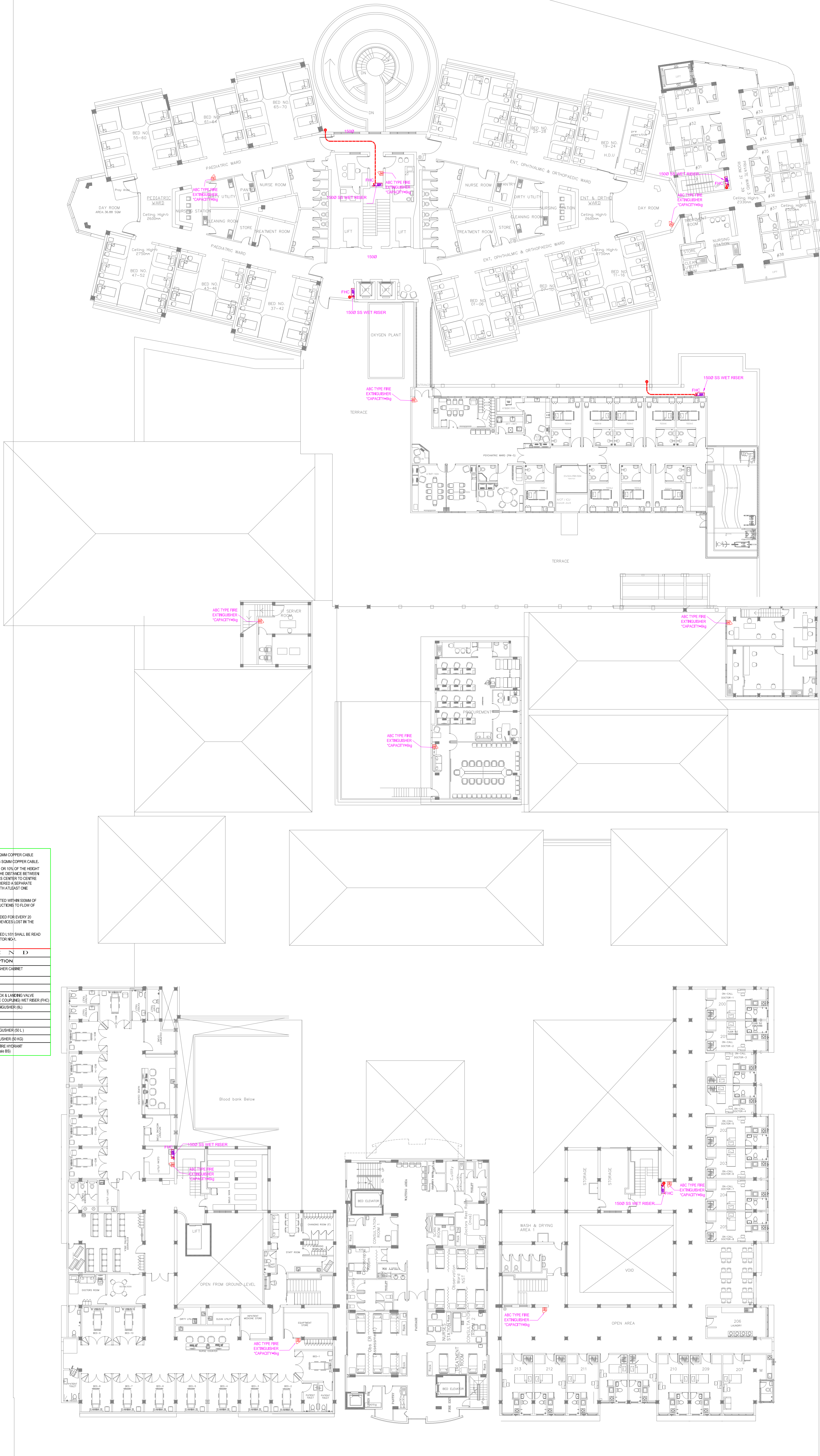
SECOND FLOOR / FIRE FIGHTING

SCALE: 1: 200

FIRE FIGHTING

- 1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE.
2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE.
3- IF DEPTH OF BEAM EXCEED 45 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER. THE BEAM MAY BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH ATLEAST ONE SMOKE DETECTOR.
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 500MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRCUT.
6- REFERENCE ON DETECTOR/DEVICES L101 SHALL BE READ AS FIRE DETECTION LOOP-11 DETECTOR NCH.

SYMBOL	DESCRIPTION
	ABC TYPE FIRE EXTINGUISHER CABINET (CAPACITY-2 kg)
	SPRINKLER HEAD
	FIRE WATER LINE (AFC)
	FIRE HOSE REEL HOSE BOX & LANDING VALVE (INSTANTANEOUS FEMALE COUPLING) WET RISER (FHC)
	WET CHEMICAL FIRE EXTINGUISHER (5L)
	CO2 EXTINGUISHER (2KG)
	FIRE BLANKET
	FOAM TROLLEY FIRE EXTINGUISHER (50 L)
	DCP TROLLEY FIRE EXTINGUISHER (50 KG)
	2 WAY OUTDOOR PILLAR FIRE HYDRANT (202.5" control valve with female BS)



Project :
DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :
FIRE FIGHTING DRAWING

Location :
IGM Hospital (Maldives)

Designed :
M. Naushad
M. Husham

Checked :
Fire & Rescue Service
M. N. D. F

scale - AS SHOWN
print - A1

Date: 07.08.2021

Revision:
R4 - 28 JULY 2021

Note :
This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

APPROVED :

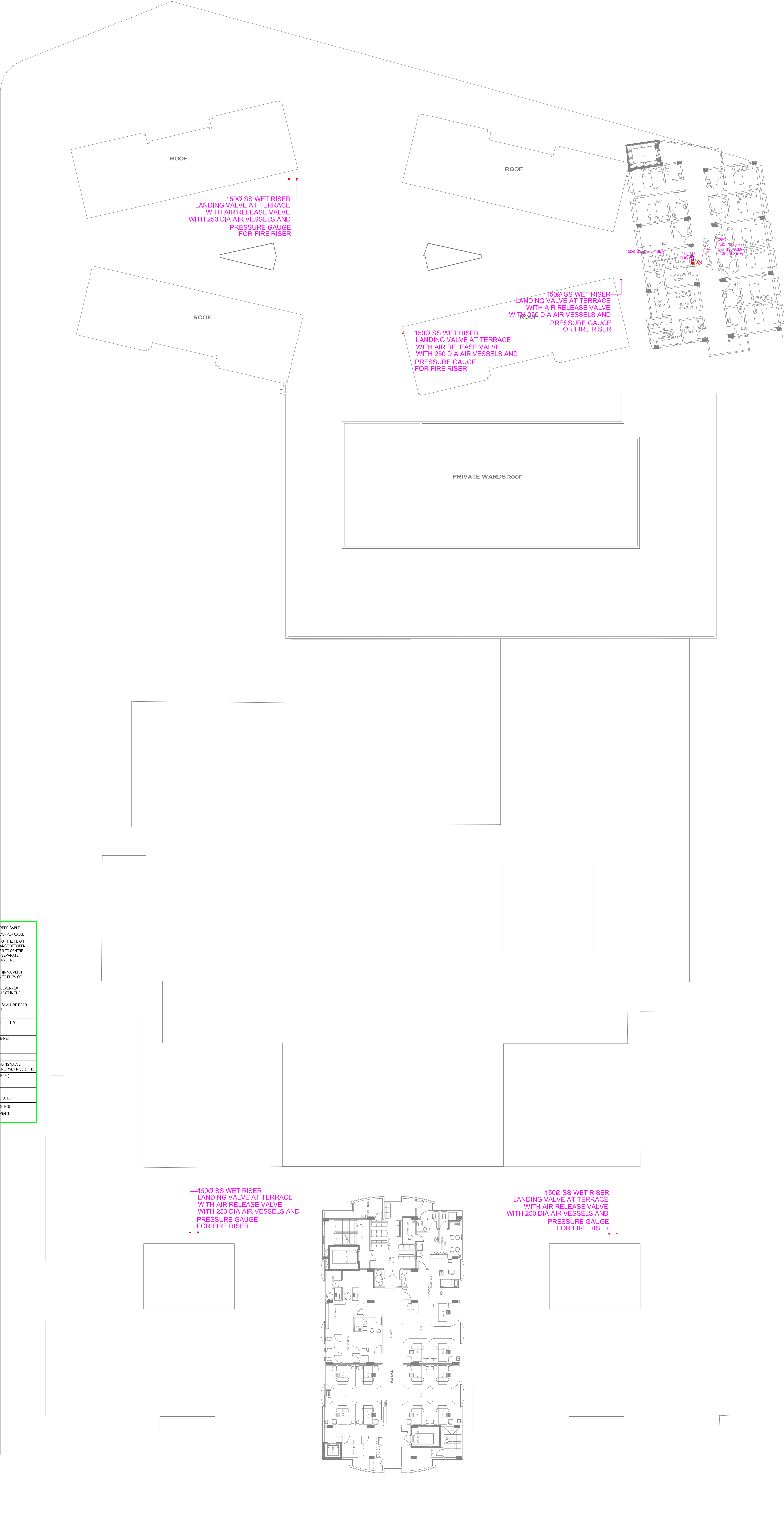
The contractors must check all dimensions on site prior to the commencement of any work.

Indhira Gandhi Memorial Hospital

THIRD FLOOR / FIRE FIGHTING

SCALE: 1: 200

1- WIRING OF DETECTORS - 2X1.5 SOAM COPPER CABLE	
2- WIRING OF ALARM CIRCUIT - 2X1.5 SOAM COPPER CABLE	
3- IF DEPTH OF BEAM EXCEEDS 45 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER, THAN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH ATLEAST ONE SMOKE DETECTOR.	
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 500MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.	
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRCUIT.	
6- REFERENCE ON DETECTOR(DEVICE) L101 SHALL BE READ AS FIRE DETECTION LOOP-1 DETECTOR NO-1.	
SYMBOL	DESCRIPTION
	ABC TYPE FIRE EXTINGUISHER CABINET (CAPACITY 4.5L)
	SPRINKLER HEADS
	FIRE WATER LINE (AFC)
	FIRE HOSE REEL, HOSE BOX & LANDING VALVE (INSTANTANEOUS RELEASE COUPLING) (NET RISKER (PHC))
	WET CHEMICAL FIRE EXTINGUISHER (RL)
	CO2 EXTINGUISHER (2KG)
	FIRE BLANKET
	FOAM TROLLEY FIRE EXTINGUISHER (50 L)
	DCP TROLLEY FIRE EXTINGUISHER (50 KG)
	2 WAY OUTDOOR PILLAR FIRE HYDRANT (200' control valve with remote RS)



Project :

DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :

FIRE FIGHTING DRAWING

Location :

IGM Hospital (Maldives)

Designed :

M. Naushad
M. Husham

Checked :

Fire & Rescue Service
M. N. D. F

scale - AS SHOWN

print - A1

Date :

07.08.2021

Revisions:

R4 - 28 JULY 2021

Note :

This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

APPROVED :

The contractors must check all dimensions on site prior to the commencement of any work.



Indhira Gandhi Memorial Hospital

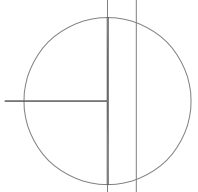
I.G.M HOSPITAL

FIRE DETECTOR & ALARM SYSTEM

REVISION
28 JULY 2021



Indhira Gandhi
Memorial Hospital



BASEMENT - FIRE DETECTOR & ALARM SYSTEM

SCALE: 1: 200



1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE	
2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE	
3- IF DEPTH OF BEAM EXCEEDS 45 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER, THEN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH AT LEAST ONE SMOKE DETECTOR.	
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 50MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.	
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRC.	
6- REFERENCE ON DETECTOR (DEVICE) 1,101 SHALL BE READ AS FIRE DETECTION LOOP-1 DETECTOR NO-1.	
L E G E N D	
SYMBOL	DESCRIPTION
	PHOTO THERMAL SMOKE DETECTOR (SMOKE + HEAT)
	HEAT DETECTOR
	RESPONSE INDICATOR
	CONTROL MODULE (CRCT)
	FAULT ISOLATOR MODULE
	SPEAKER
	1.5 Sqmm 2 CORE ARMORED CABLE LOOP
	PISTONER & PISTONER MODULE
	RESETTABLE MANUAL CALL POINT

FIRE DETECTOR & ALARM

Project :
DESIGN &
INSTALLATION OF NEW
FIRE FIGHTING SYSTEM

Title :
FIRE DETECTOR &
ALARM SYSTEM

Location :
IGM Hospital
(Maldives)

Designed :
M. Naushad
M. Husham
Checked :
Fire & Rescue Service
M. N. D. F.

scale - AS SHOWN
print - A1

Date: 07.08.2021

Revisions:
R4 - 28 JULY 2021

Note :
This Project Draft
Sketch is for
Stakeholders to
Discuss and
Comment Only

APPROVED :

The contractors must
check all dimensions
on
site prior to the
commencement of
any work.



Indhira Gandhi
Memorial Hospital

GROUND FLOOR / FIRE DETECTOR & ALARM SYSTEM

SCALE: 1:200

1. WIRING OF DETECTORS - 2X1.50MM COPPER CABLE
2. WIRING OF ALARM CIRCUIT - 2X1.50MM COPPER CABLE
3. IF DEPTH OF BEAM EXCEED 40 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER THEN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH AT LEAST ONE SMOKE DETECTOR.
4. DETECTORS SHALL NOT BE MOUNTED WITHIN 50MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.
5. FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 30 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRCUIT.
6. REFERENCE ON DETECTOR/NOTICE L101 SHALL BE READ AS FIRE DETECTION LOOP/1 DETECTOR NO-1.

LEGEND	
SYMBOL	DESCRIPTION
	PHOTO THERMAL SMOKE DETECTOR (SMOKE + HEAT)
	HEAT DETECTOR
	RESPONSE INDICATOR
	CONTROL MODULE (GRNT)
	FAULT ISOLATOR MODULE
	SPEAKER
	1.5 Sq mm 2 CORE ARMORED CABLE LOOP
	HOOTER & HOOTER MODULE
	RESETTABLE MANUAL CALL POINT



Project :
DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :
FIRE DETECTOR & ALARM SYSTEM

Location :
IGM Hospital (Maldives)

Designed :
M. Naushad
M. Husham

Checked :
Fire & Rescue Service
M.N.D.F

scale - AS SHOWN
print - A1

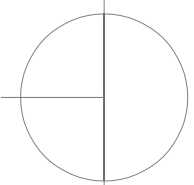
Date: 07.08.2021

Revisions:
R4 - 28 JULY 2021

Note :
This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

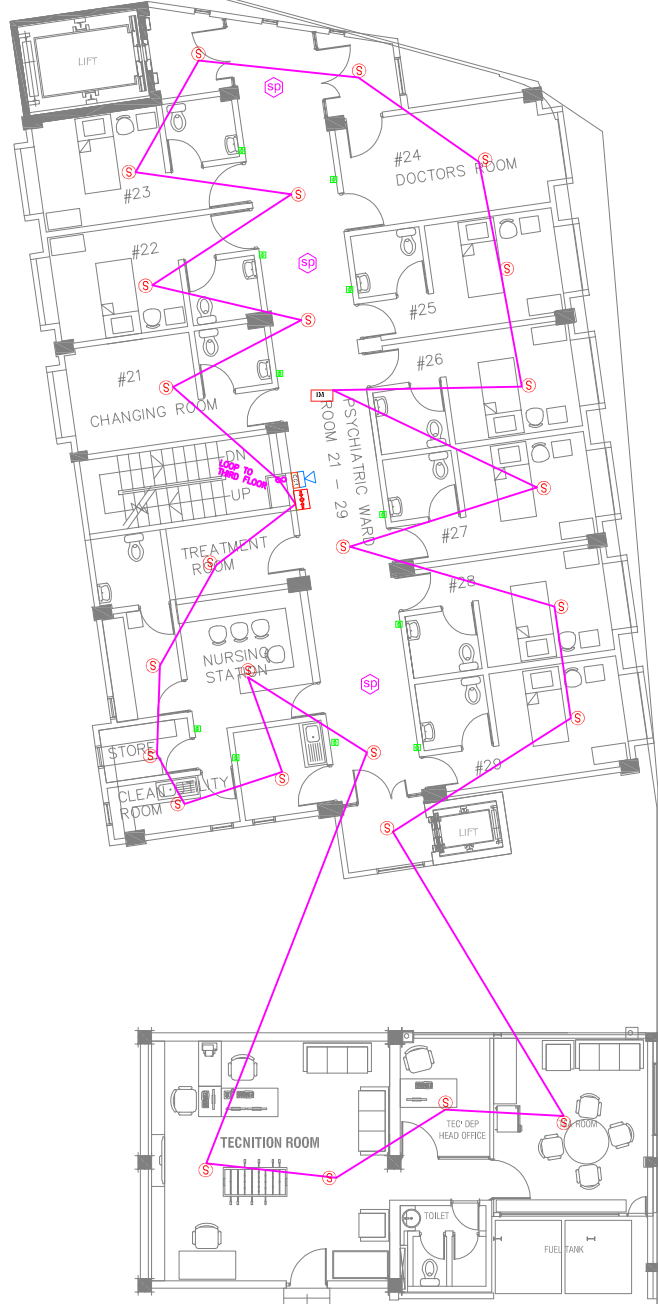
APPROVED :

The contractors must check all dimensions on site prior to the commencement of any work.



MEZZANINE FLOOR / FIRE DETECTOR & ALARM SYSTEM

SCALE: 1:200



1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE	
2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE	
3- IF DEPTH OF BEAM EXCEED 45 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM MORE THAN 2.5 METERS CENTER TO CENTER, THAN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH ATLEAST ONE SMOKE DETECTOR.	
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 500MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.	
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRCUIT.	
6- REFERENCE ON DETECTOR/DEVICES L101 SHALL BE READ AS FIRE DETECTION LOOP-1 DETECTOR/MDA	
SYMBOL	DESCRIPTION
	PHOTO THERMAL SMOKE DETECTOR (SMOKE + HEAT)
	HEAT DETECTOR
	RESPONSE INDICATOR
	CONTROL MODULE (CRMT)
	FAULT ISOLATOR MODULE
	SPEAKER
	1.5 Sqmm 2 CORE ARMORED CABLE LOOP
	HOOTER & HOOTER MODULE
	RESETTABLE MANUAL CALL POINT

FIRE DETECTOR & ALARM

Project :
DESIGN &
INSTALLATION OF NEW
FIRE FIGHTING SYSTEM

Title :
FIRE DEECTOR &
ALARM SYSTEM

Location :
IGM Hospital
(Maldives)

Designed :
M. Naushad
M. Husham
Checked :
Fire & Rescue Service
M. N. D. F

scale - AS SHOWN
print - A1

Date: 07.08.2021

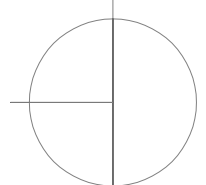
Revisions:
R4 - 28 JULY 2021

Note :
This Project Draft
Sketch is for
Stakeholders to
Discuss and
Comment Only

APPROVED :

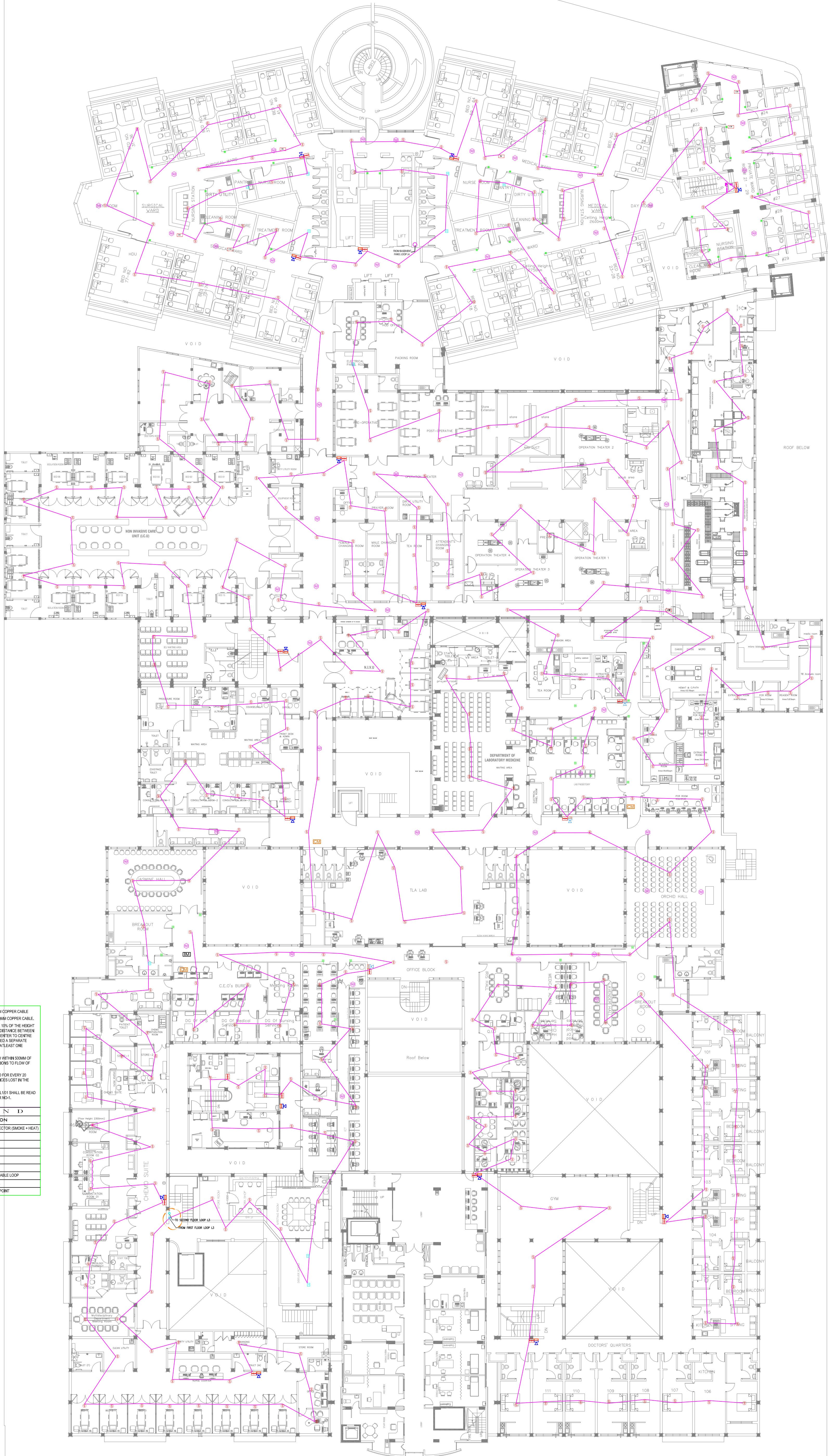
The contractors must
check all dimensions
on
site prior to the
commencement of
any work.


Indhira Gandhi
Memorial Hospital



FIRST FLOOR / FIRE DETECTOR & ALARM SYSTEM

SCALE: 1:200



- 1- WIRING OF DETECTORS - 2X1.5 SOAM COPPER CABLE
2- WIRING OF ALARM CIRCUIT - 2X1.5 SOAM COPPER CABLE
3- IF DEPTH OF BEAM EXCEEDS 40 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTRE TO CENTRE THAN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH AT LEAST ONE SMOKE DETECTOR.
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 50MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CKT.
6- REFERENCE ON DETECTOR (DEVICES L1/L1) SHALL BE READ AS FIRE DETECTION LOOP-1 DETECTOR NO-1.

LEGEND	
SYMBOL	DESCRIPTION
	PHOTO THERMAL SMOKE DETECTOR (SMOKE + HEAT)
	HEAT DETECTOR
	RESPONSE INDICATOR
	CONTROL MODULE (CMCT)
	FAULT ISOLATOR MODULE
	SPEAKER
	1.5 Sqmm 2 CORE ARMORED CABLE LOOP
	HOOTER & HOOTER MODULE
	RESETTABLE MANUAL CALL POINT

Project :
DESIGN &
INSTALLATION OF NEW
FIRE FIGHTING SYSTEM

Title :
FIRE DETECTOR &
ALARM SYSTEM

Location :
IGM Hospital
(Maldives)

Designed :
M. Naushad
M. Husham

Checked :
Fire & Rescue Service
M.N.D.F

scale - AS SHOWN
print - A1

Date: 07.08.2021

Revisions:
R4 - 28 JULY 2021

Note :
This Project Draft
Sketch is for
Stakeholders to
Discuss and
Comment Only

APPROVED :

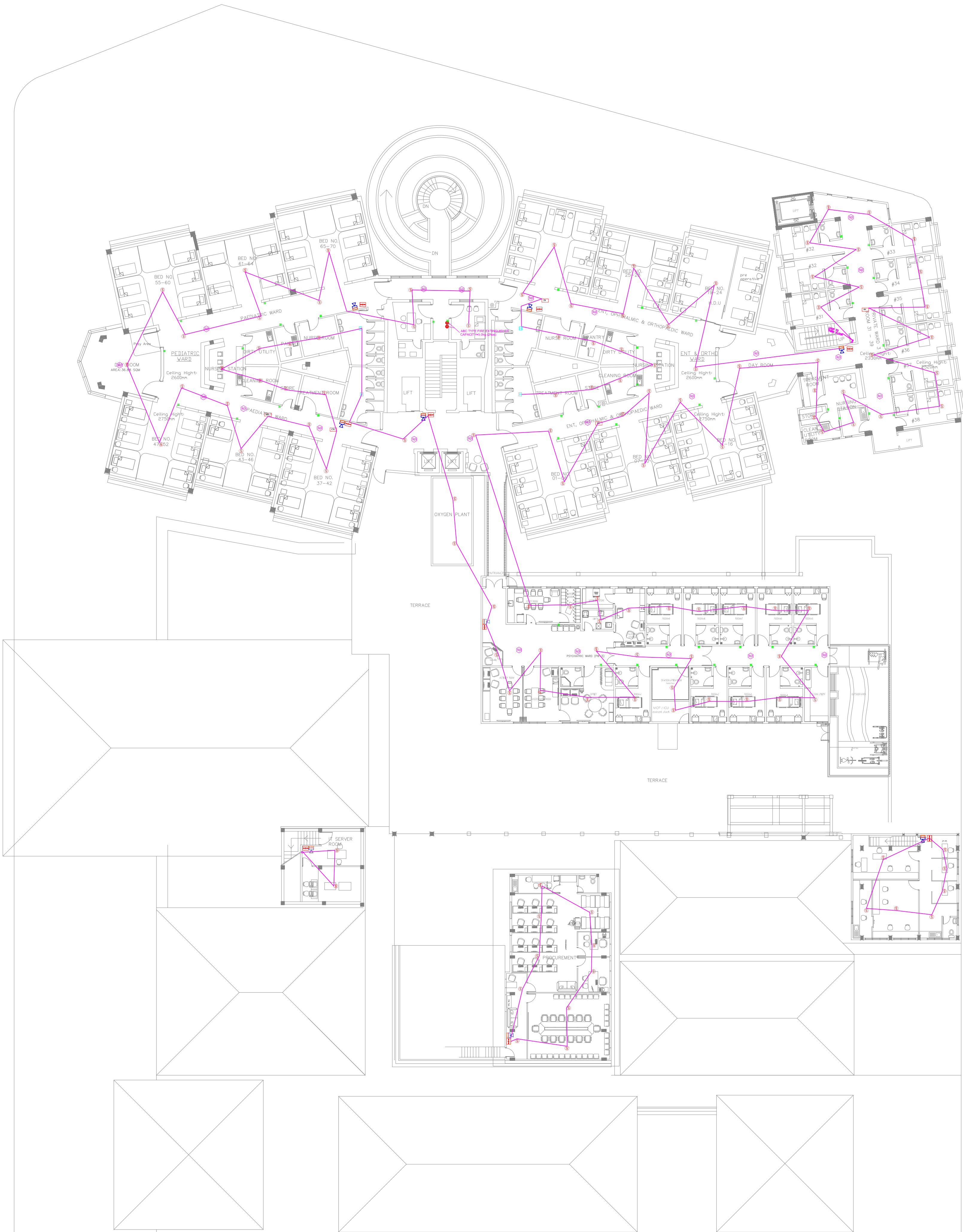
The contractors must
check all dimensions
on
site prior to the
commencement of
any work.



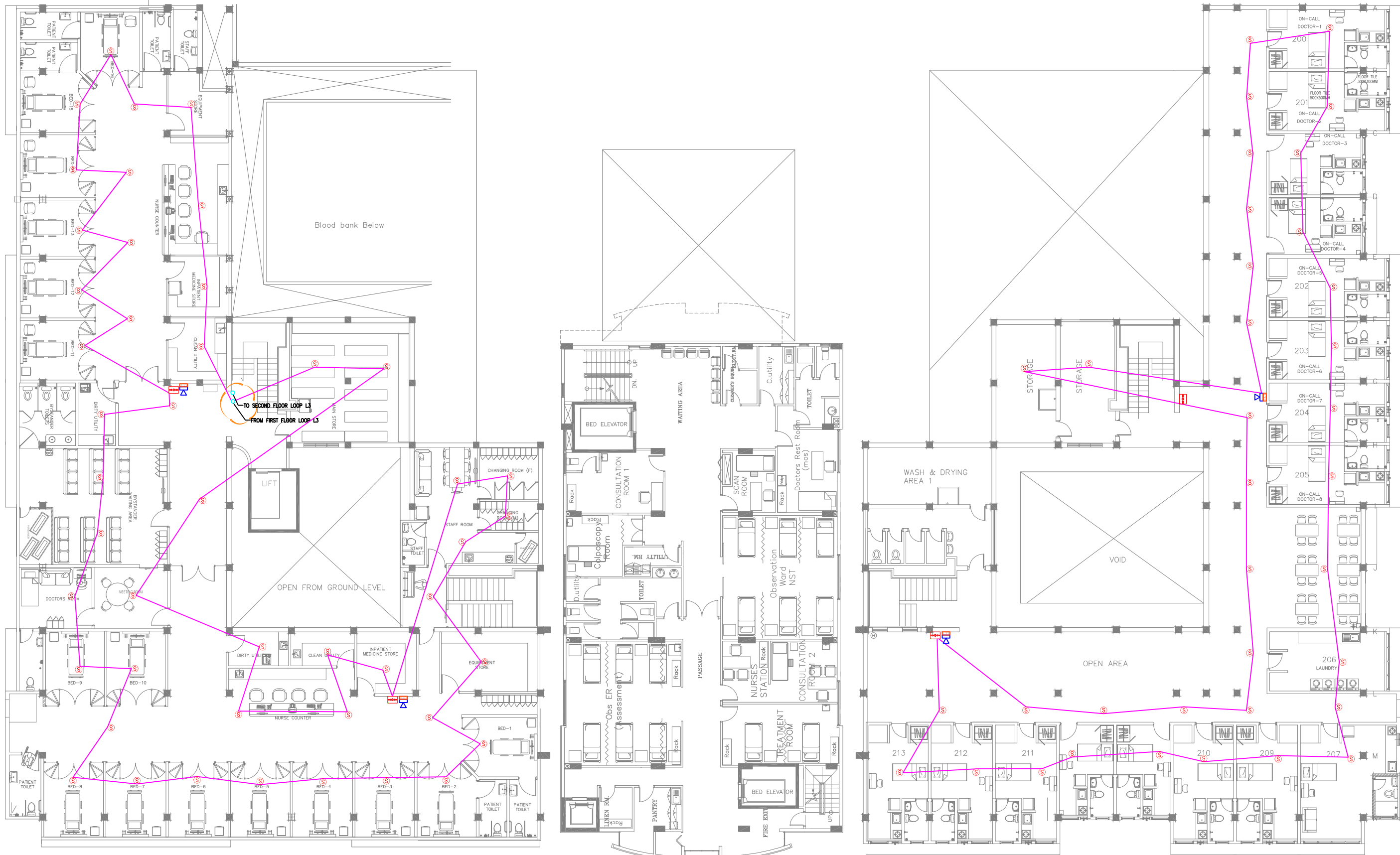
Indira Gandhi
Memorial Hospital

SECOND FLOOR / FIRE DETECTOR & ALARM SYSTEM

SCALE 1: 200



FIRE DETECTOR & ALARM	
LEGEND	
SYMBOL	DESCRIPTION
	PHOTO THERMAL SMOKE DETECTOR (SMOKE + HEAT)
	HEAT DETECTOR
	RESPONSE INDICATOR
	CONTROL MODULE (CMT)
	FAULT ISOLATOR MODULE
	SPEAKER
	1.5 Sqmm 2 CORE ARMORED CABLE LOOP
	HOOTER & HOOTER MODULE
	RESETTABLE MANUAL CALL POINT



Project :
DESIGN &
INSTALLATION OF NEW
FIRE FIGHTING SYSTEM

Title :
FIRE DETECTOR &
ALARM SYSTEM

Location :
IGM Hospital
(Maldives)

Designed :
M. Naushad
M. Husham
Checked :
Fire & Rescue Service
M. N. D. F

scale - AS SHOWN
print - A1


Date: 07.08.2021

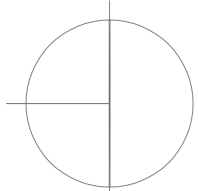
Revision:
R4 - 28 JULY 2021

Note :
This Project Draft
Sketch is for
Stakeholders to
Discuss and
Comment Only

APPROVED :

The contractors must
check all dimensions
on
site prior to the
commencement of
any work.

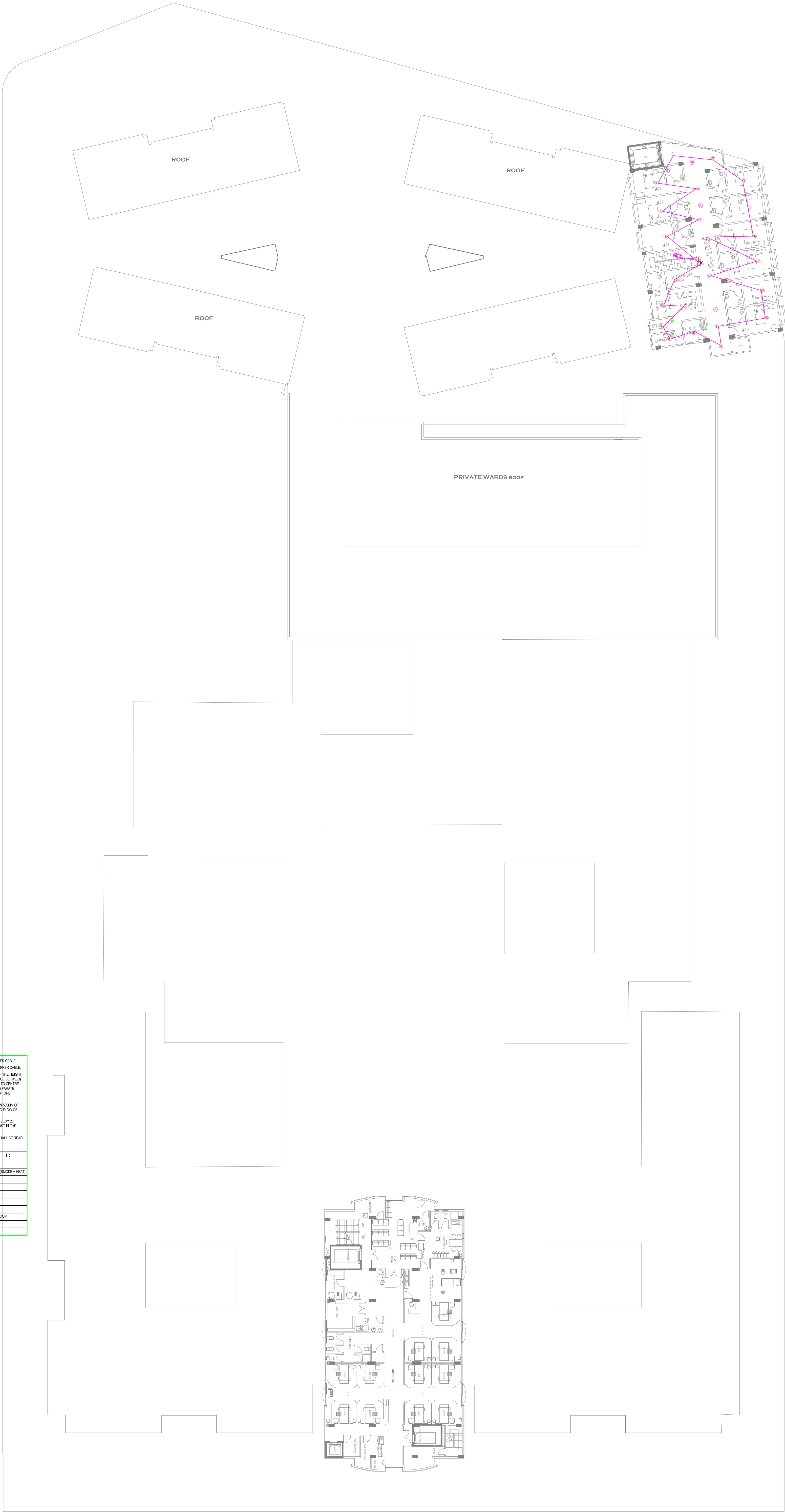

Indhira Gandhi
Memorial Hospital



THIRD FLOOR / FIRE DETECTOR & ALARM SYSTEM

SCALE: 1: 200

1- WIRING OF DETECTORS - 2X1.5 SQMM COPPER CABLE	
2- WIRING OF ALARM CIRCUIT - 2X1.5 SQMM COPPER CABLE	
3- IF DEPTH OF BEAM EXCEEDS 40 CM OR 10% OF THE HEIGHT FROM THE FLOOR TO CEILING AND THE DISTANCE BETWEEN THE BEAM IS MORE THAN 2.5 METRES CENTER TO CENTER THEN EACH BAY SHOULD BE CONSIDERED A SEPARATE AREA AND SHOULD BE PROVIDED WITH ATLEAST ONE SMOKE DETECTOR	
4- DETECTORS SHALL NOT BE MOUNTED WITHIN 500MM OF ANY WALLS, PARTITIONS OR OBSTRUCTIONS TO FLOW OF SMOKE OR HOT GASES.	
5- FAULT ISOLATOR SHALL BE PROVIDED FOR EVERY 20 DEVICES TO LIMIT THE NUMBER OF DEVICES LOST IN THE EVENT OF SHORT CIRC.	
6- REFERENCE ON DETECTOR DEVICED L101 SHALL BE READ AS FIRE DETECTION LOOP-1/ DETECTOR NO-1.	
L E G E N D	
SYMBOL	DESCRIPTION
(S)	PHOTO THERMAL SMOKE DETECTOR (SMOKE + HEAT)
(H)	HEAT DETECTOR
(R)	RESPONSE INDICATOR
(CM)	CONTROL MODULE (CRCT)
(IM)	FAULT ISOLATOR MODULE
(SP)	SPEAKER
(L5)	1.5 Sqmm 2 CORE ARMORED CABLE LOOP
(H1)	HOOTER & HOOTER MODULE
(M)	RESETTABLE MANUAL CALL POINT



Project :

DESIGN & INSTALLATION OF NEW FIRE FIGHTING SYSTEM

Title :

FIRE DEDECTOR & ALARM SYSTEM

Location :

IGM Hospital (Maldives)

Designed :

M. Naushad
M. Husham

Checked :

Fire & Rescue Service
M. N. D. F

scale - AS SHOWN

print - A1

Date:

07.08.2021

Revision:


R4 - 28 JULY 2021

Note :

This Project Draft Sketch is for Stakeholders to Discuss and Comment Only

APPROVED :

The contractors must check all dimensions on site prior to the commencement of any work.



Indira Gandhi Memorial Hospital