



# Proposed Eight Storey Extension At CHSE SERVICES DRAWINGS Client: Ministry Of Education

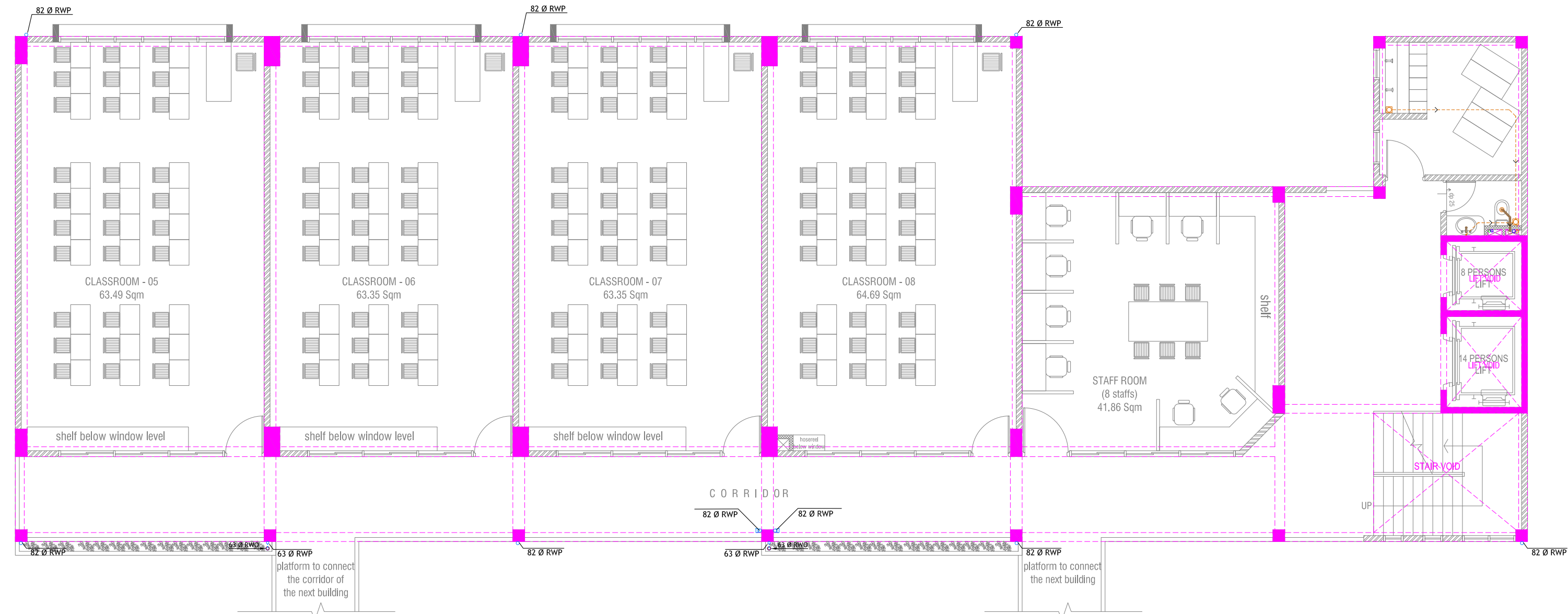


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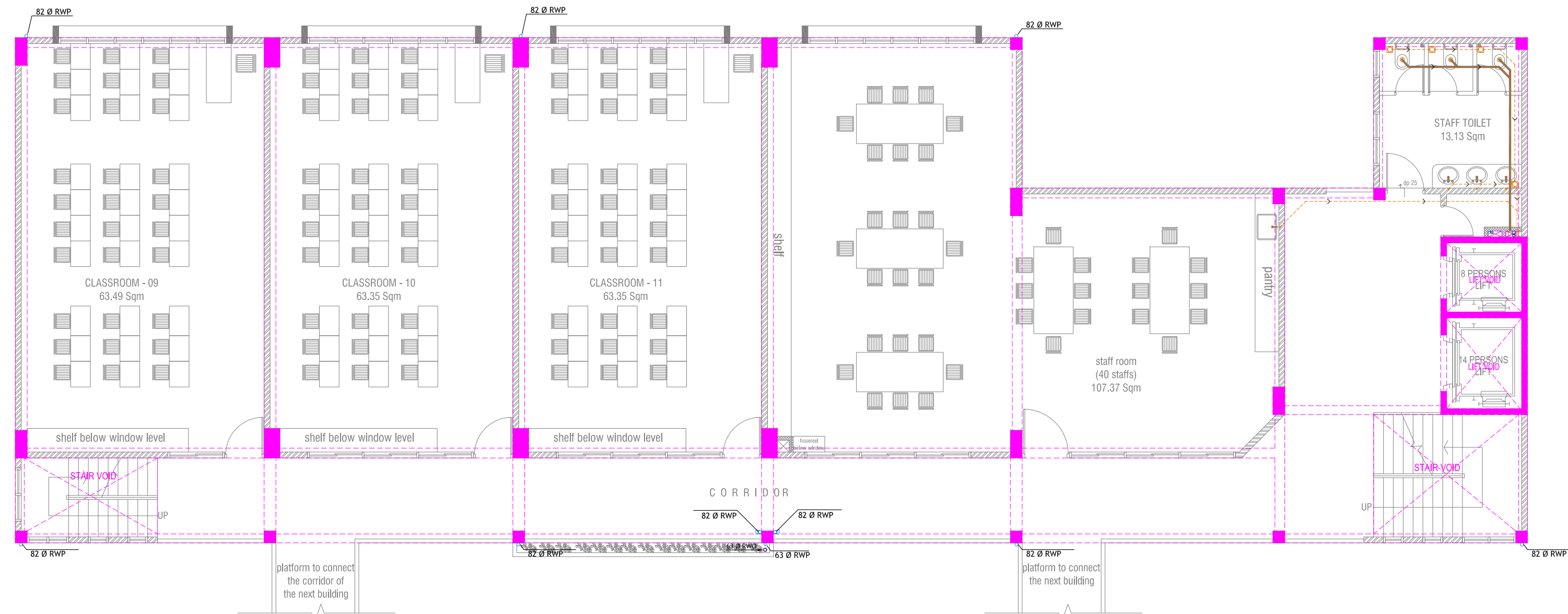
## DETAIL 01

- LEGEND**
- |      |                           |
|------|---------------------------|
| FG   | FLOOR GULLY               |
| FD   | FLOOR DRAIN               |
| AWP  | 63 Ø CPVC ACID WASTE PIPE |
| SP   | 110 Ø SOIL PIPE           |
| WP   | 82 Ø WASTE PIPE           |
| WP   | 82 Ø WASTE PIPE           |
| WP   | 40 Ø WASTE PIPE           |
| RWP  | 82 Ø RAINWATER PIPE       |
| MHPV | 82 Ø MANHOLE VENT PIPE    |



**SECOND FLOOR DRAINAGE LAYOUT**

SCALE 1:100



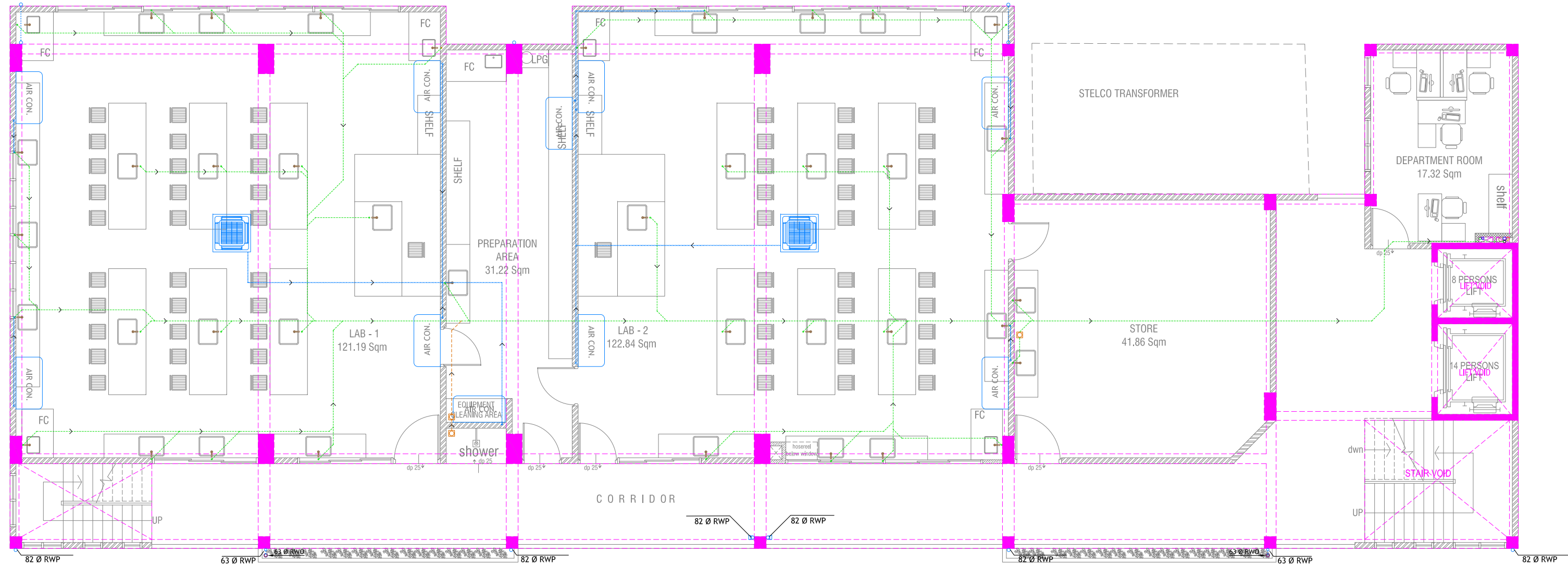
**THIRD FLOOR DRAINAGE LAYOUT**

SCALE 1:100



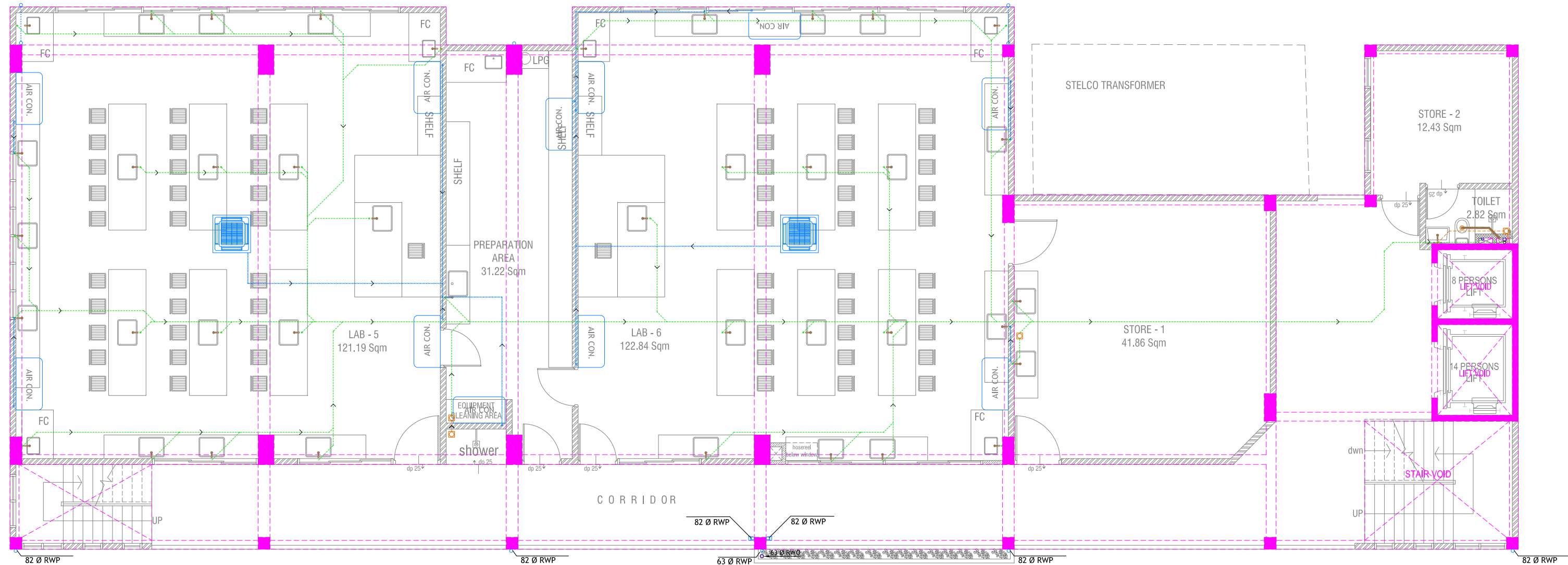
- LEGEND**
- FGØ FLOOR GULLY
  - FDØ FLOOR DRAIN
  - AWP 63 Ø CPVC ACID WASTE PIPE
  - SP 110 Ø SOIL PIPE
  - WP 82 Ø WASTE PIPE
  - WP 82 Ø WASTE PIPE
  - WP 40 Ø WASTE PIPE
  - RWP 82 Ø RAINWATER PIPE
  - MHVP 82 Ø MANHOLE VENT PIPE





FOURTH FLOOR DRAINAGE LAYOUT

SCALE 1:100



FIFTH FLOOR DRAINAGE LAYOUT

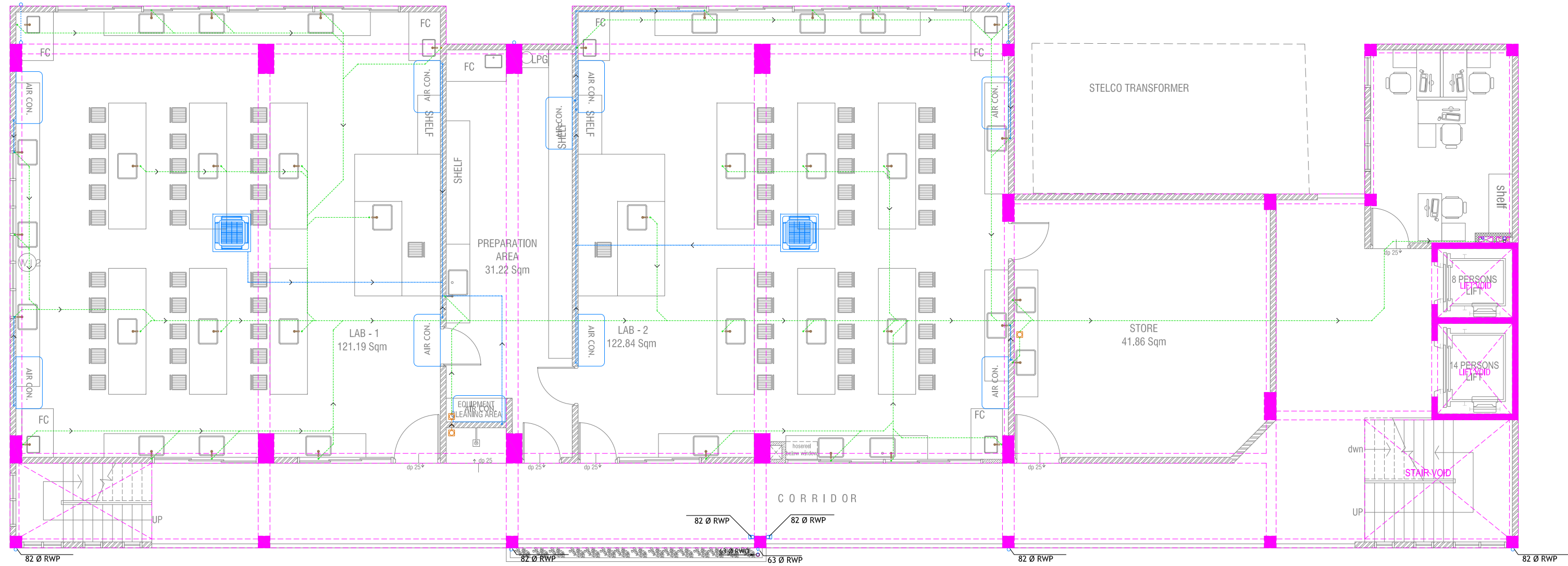
SCALE 1:100



LEGEND	
FG	FLOOR GULLY
FD	FLOOR DRAIN
AWP	63 Ø CPVC ACID WASTE PIPE
SP	110 Ø SOIL PIPE
WP	82 Ø WASTE PIPE
WP	82 Ø WASTE PIPE
WP	40 Ø WASTE PIPE
RWP	82 Ø RAINWATER PIPE
MHVP	82 Ø MANHOLE VENT PIPE

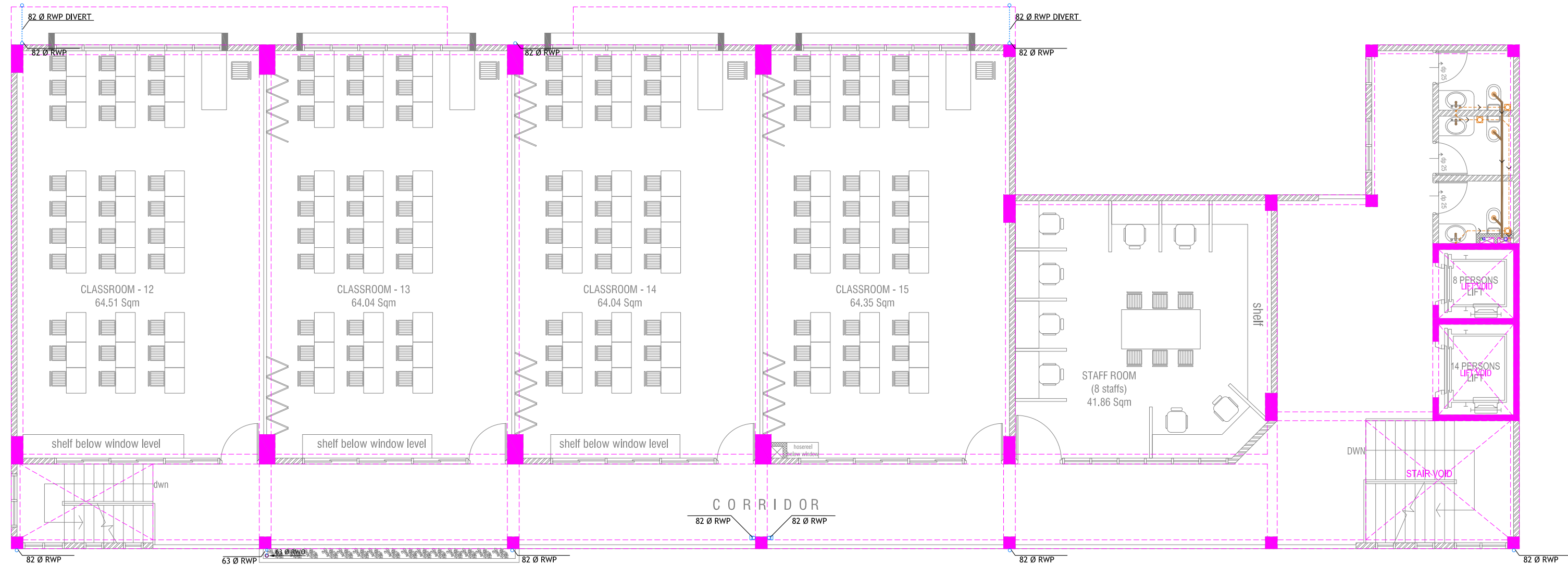
Proposed Eight Storey Extension At CHSE		Rev no	Date
Client: Ministry Of Education		-	-
Project Number: R/2016/005		-	-
Date: April 2016		-	-
Architect: Fahimath Leena Jaleel		-	-
Engineer: Ihsan Waheed		-	-
Drawn by: Fahimath Leena Jaleel		-	-





# SIXTH FLOOR DRAINAGE LAYOUT

SCALE 1:100



# SEVENTH FLOOR DRAINAGE LAYOUT

SCALE 1:100



**LEGEND**

FG	FG	FLOOR GULLY
FD	FD	FLOOR DRAIN
AWP	AWP	63 Ø CPVC ACID WASTE PIPE
SP	SP	110 Ø SOIL PIPE
WP	WP	82 Ø WASTE PIPE
WP	WP	82 Ø WASTE PIPE
WP	WP	40 Ø WASTE PIPE
RWP	RWP	82 Ø RAINWATER PIPE
MHVP	MHVP	82 Ø MANHOLE VENT PIPE

## Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

Drawn by: Fahimath Leena Jaleel

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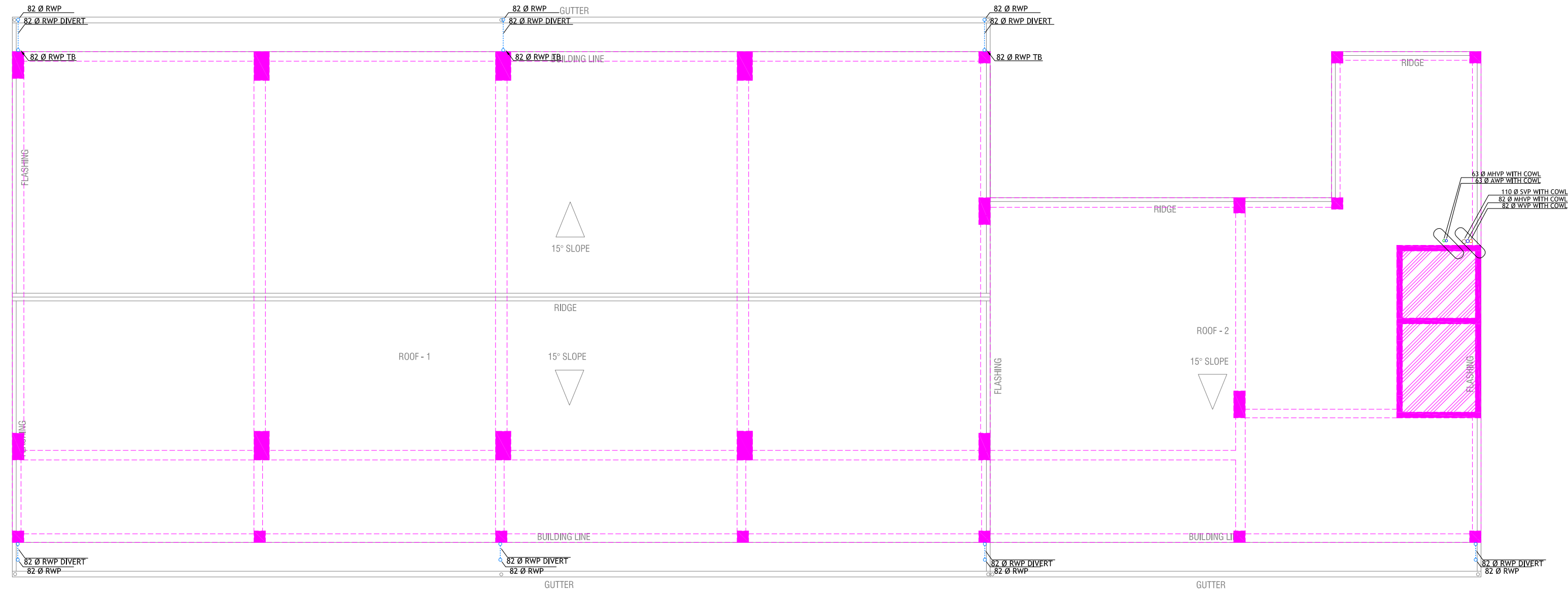
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3rd floor, 61, South Avenue, Malé

Title: Sixth & Seventh floor

drainage layout

Page: DR. 04/05



### ROOF DRAINAGE LAYOUT

SCALE 1:100



LEGEND	
FG	FLOOR GULLY
FD	FLOOR DRAIN
AWP	63 Ø CPVC ACID WASTE PIPE
SP	110 Ø SOIL PIPE
WP	82 Ø WASTE PIPE
WP	82 Ø WASTE PIPE
WP	40 Ø WASTE PIPE
RWP	82 Ø RAINWATER PIPE
MHVP	82 Ø MANHOLE VENT PIPE

### Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education  
Project Number: R/2016/005  
Date: April 2016

Rev no	Date
-	-
-	-
-	-
-	-

Architect: Fathimath Leena Jaleel  
Engineer: Ihsan Waheed  
Drawn by: Fathimath Leena Jaleel

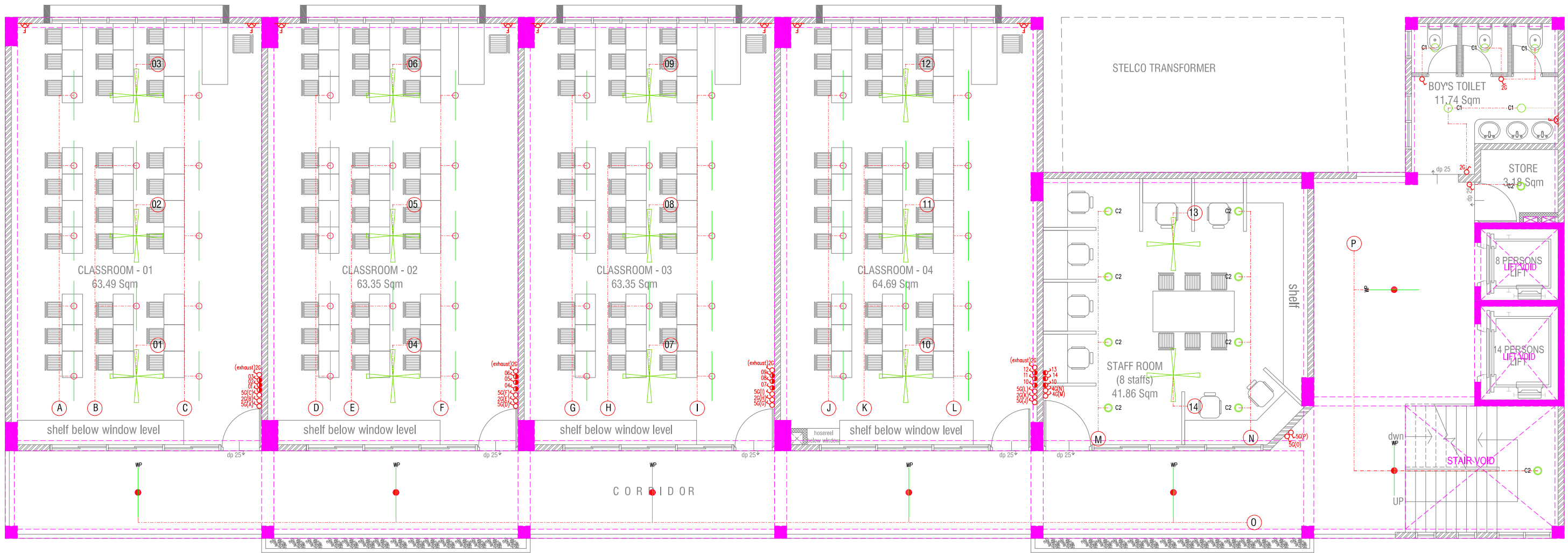
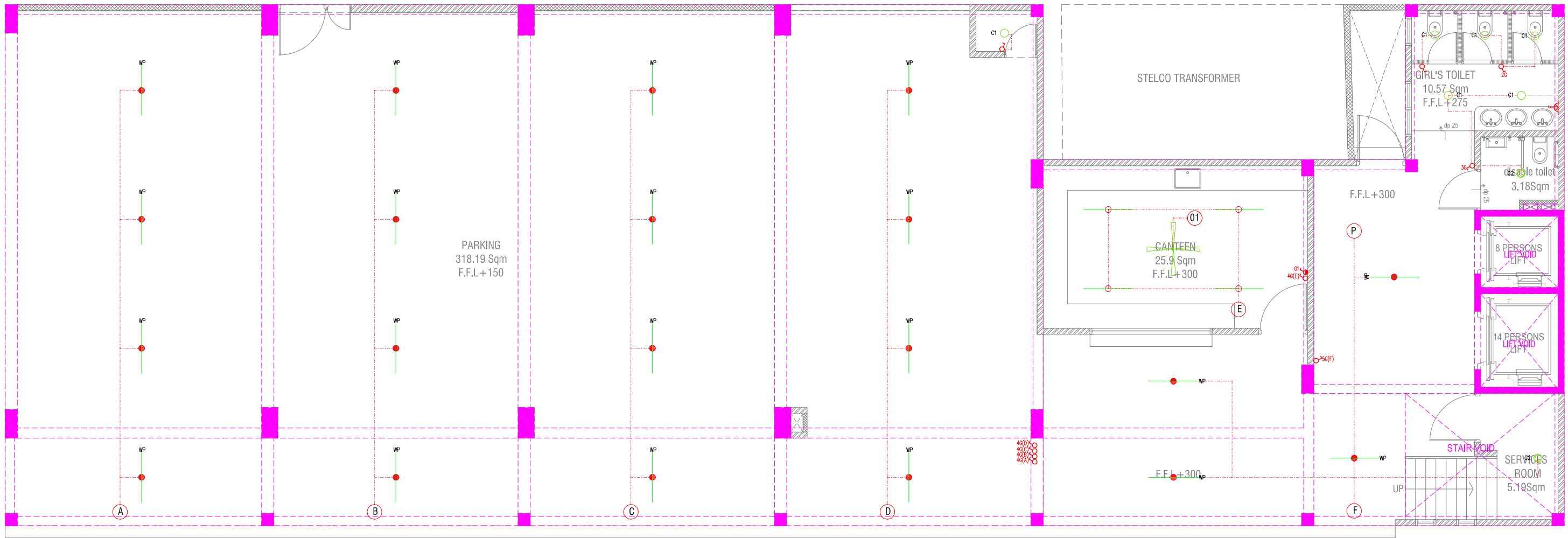


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Title: Roof drainage layout

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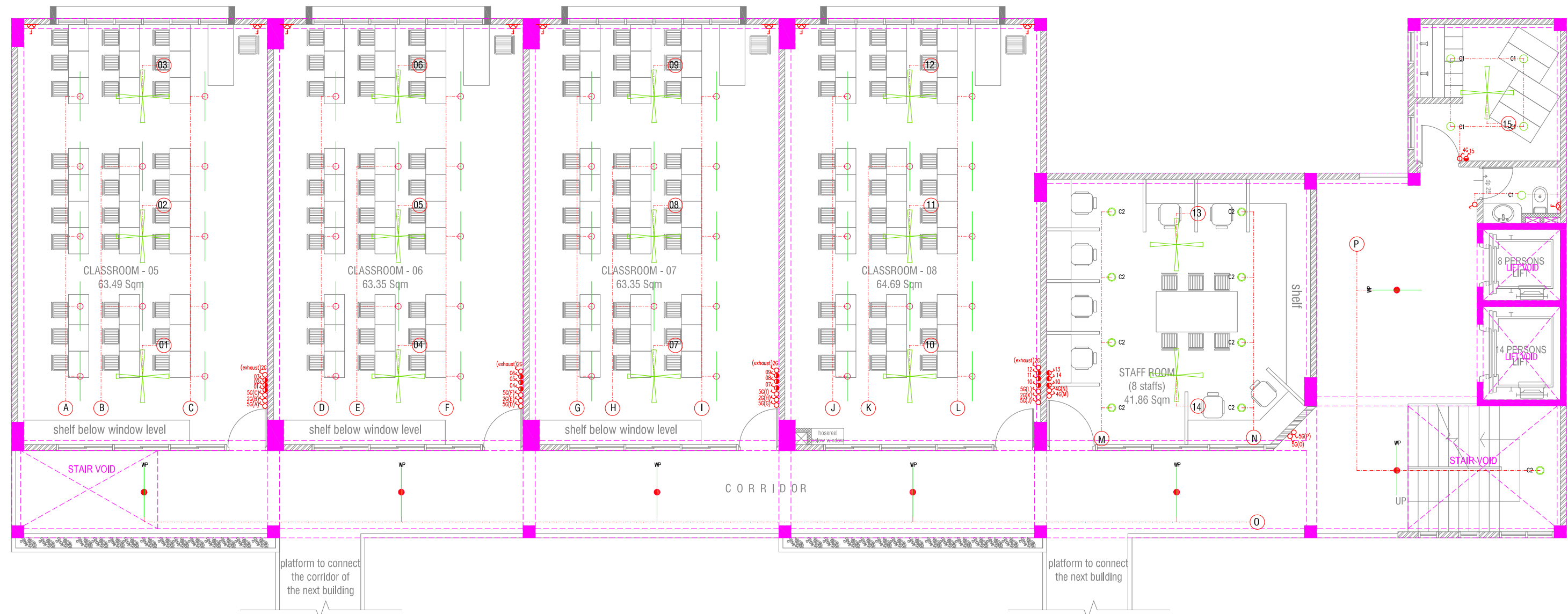
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- LEGEND
- c1 ○ RECESSED CEILING DOWN LIGHT ( 18W )
  - 2 X 4' TUBE LIGHT WITH OPAL CASING
  - WP —●— 2 X 4' TUBE LIGHT WITH WEATHER PROOF OPAL CASING
  - c2 ○ CEILING DOWN LIGHT ( 18W )
  - WP6 ● OUT DOOR WALL LIGHT
  - c2 ○ LIGHT SWITCH
  - c2 ○ CEILING FAN SWITCH
  - c2 ○ 2 WAY SWITCH
  - ✚ CEILING FAN (R=650MM)

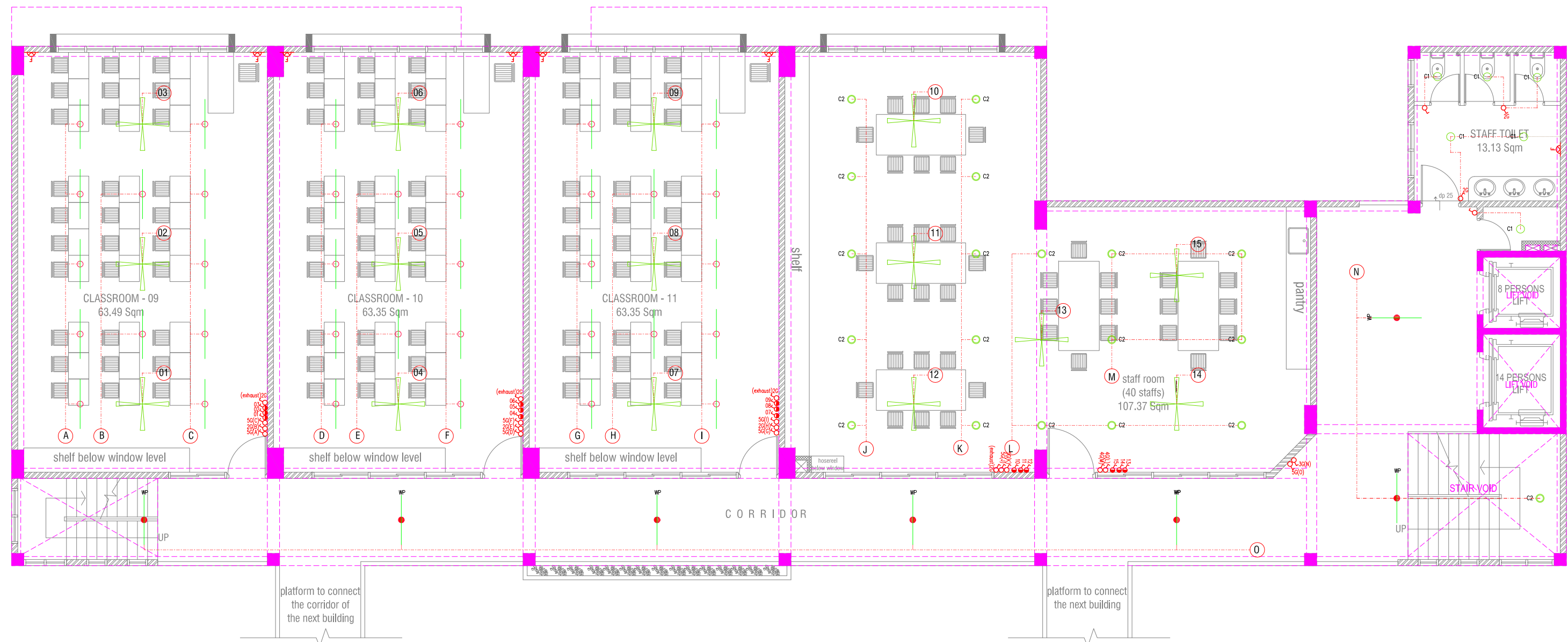
ALL THE LIGHTS SHOULD BE FLASH PROOF





**SECOND FLOOR LIGHTING LAYOUT**

SCALE 1:100  
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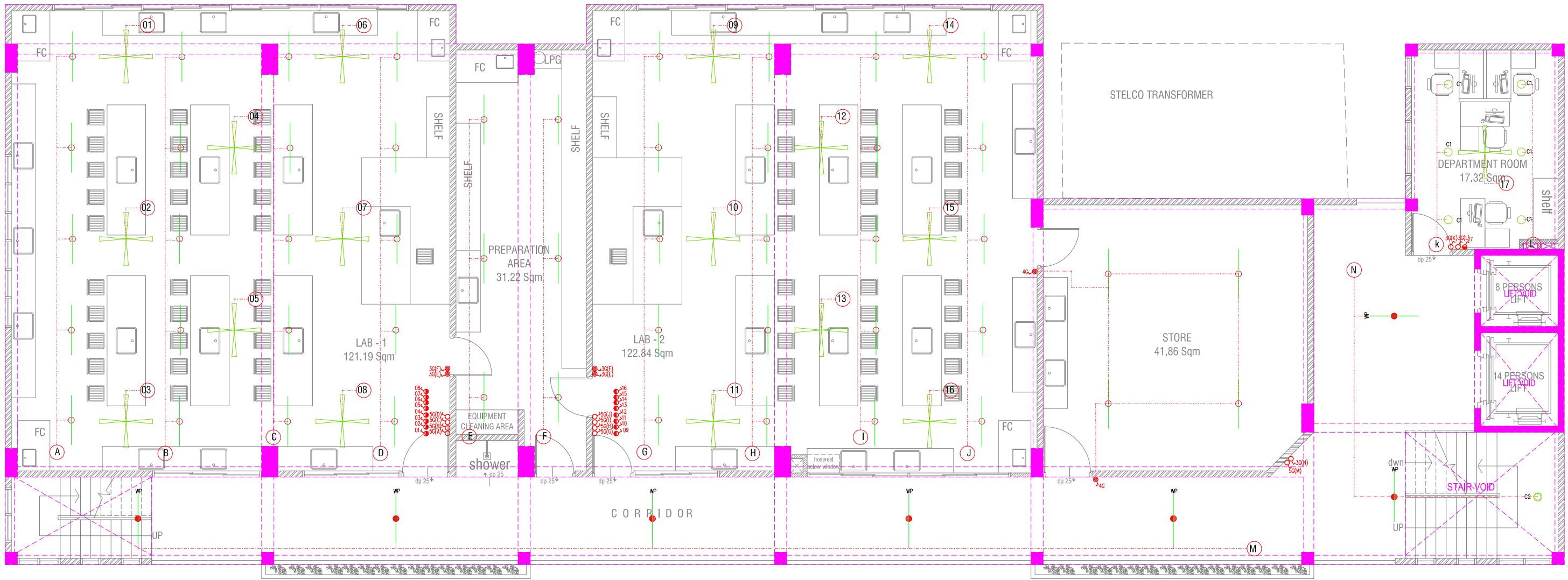


**THIRD FLOOR LIGHTING LAYOUT**

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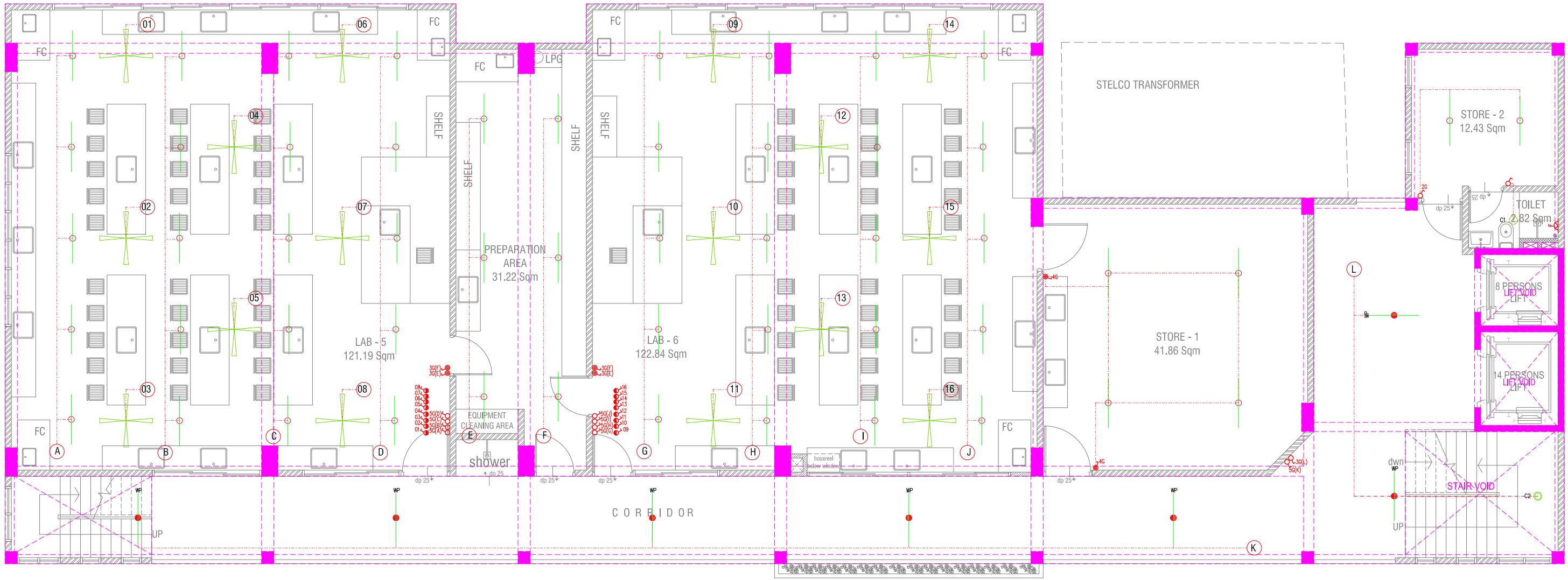
- LEGEND**
- C1 ○ RECESSED CEILING DOWN LIGHT ( 18W )
  - C2 ○ 2 X 4' TUBE LIGHT WITH OPAL CASING
  - WP ○ 2 X 4' TUBE LIGHT WITH WEATHER PROOF OPAL CASING
  - C2 ○ CEILING DOWN LIGHT ( 18W )
  - WP ○ OUT DOOR WALL LIGHT
  - C1 ○ LIGHT SWITCH
  - C2 ○ CEILING FAN SWITCH
  - C2 ○ 2 WAY SWITCH
  - C2 ○ CEILING FAN (R=650MM)

ALL THE LIGHTS SHOULD BE FLASH PROOF



**FOURTH FLOOR LIGHTING LAYOUT**

SCALE 1:100



**FIFTH FLOOR LIGHTING LAYOUT**

SCALE 1:100



- LEGEND
- c1 ○ RECESSED CEILING DOWN LIGHT ( 18W )
  - 2 X 4' TUBE LIGHT WITH OPAL CASING
  - WP ○ 2 X 4' TUBE LIGHT WITH WEATHER PROOF OPAL CASING
  - c2 ○ CEILING DOWN LIGHT ( 18W )
  - WP ○ OUT DOOR WALL LIGHT
  - c3 ○ LIGHT SWITCH
  - c4 ○ CEILING FAN SWITCH
  - c5 ○ 2 WAY SWITCH
  - CEILING FAN (R=650MM)

ALL THE LIGHTS SHOULD BE FLASH PROOF

Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: R/2016/035

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Irfan Waheed

Drawn by: Fahimath Leena Jaleel

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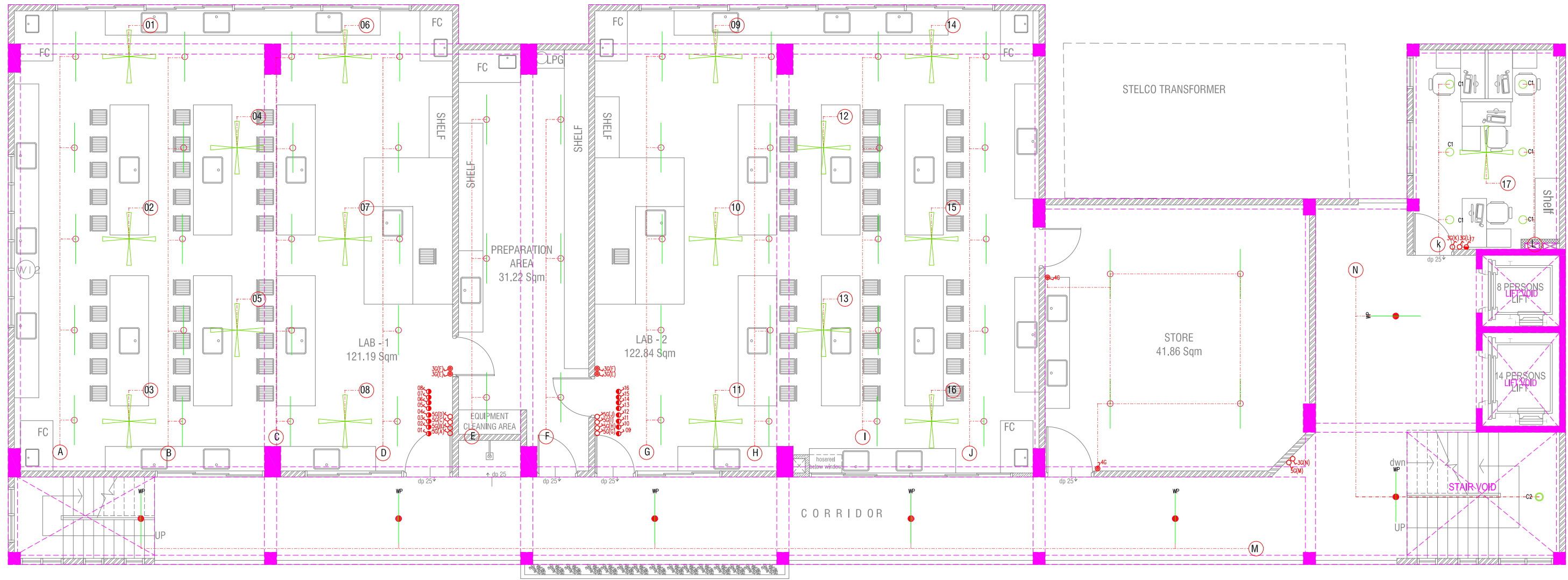


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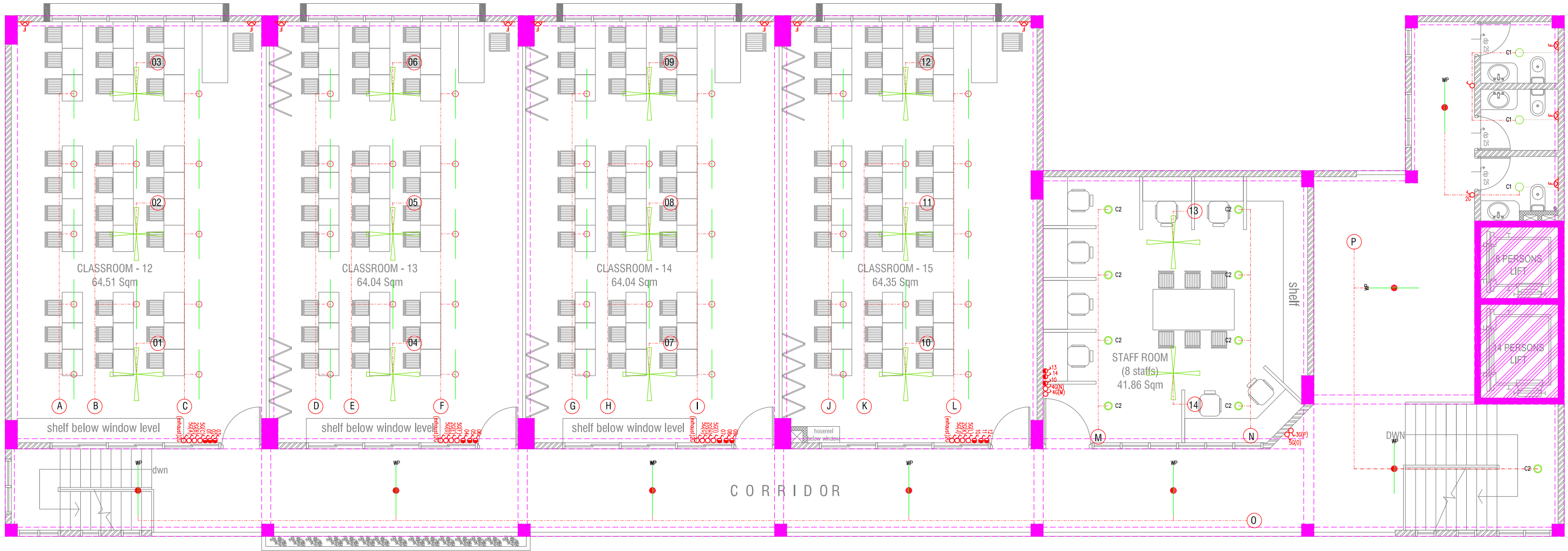
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Lighting layout  
Page: EL. 03/04





**SIXTH FLOOR LIGHTING LAYOUT**

SCALE 1:100



**SEVENTH FLOOR LIGHTING LAYOUT**

SCALE 1:100



- LEGEND**
- C1 ○ RECESSED CEILING DOWN LIGHT ( 18W)
  - 2 X 4' TUBE LIGHT WITH OPAL CASING
  - WP ● 2 X 4' TUBE LIGHT WITH WEATHER PROOF OPAL CASING
  - C2 ○ CEILING DOWN LIGHT ( 18W)
  - WP ● OUT DOOR WALL LIGHT
  - CS ○ LIGHT SWITCH
  - CS ○ CEILING FAN SWITCH
  - 2WS ○ 2 WAY SWITCH
  - CEILING FAN (R=650MM)

ALL THE LIGHTS SHOULD BE FLASH PROOF

Proposed Eight Storey Extension  
At CHSE

Client: Ministry Of Education

Project Number: R/2016/035

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Irfan Waheed

Drawn by: Fahimath Leena Jaleel



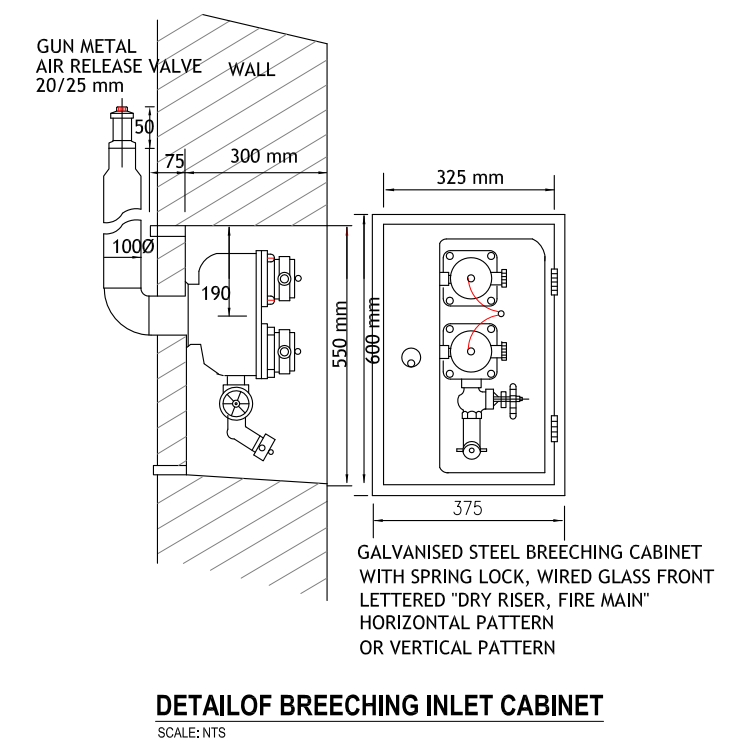
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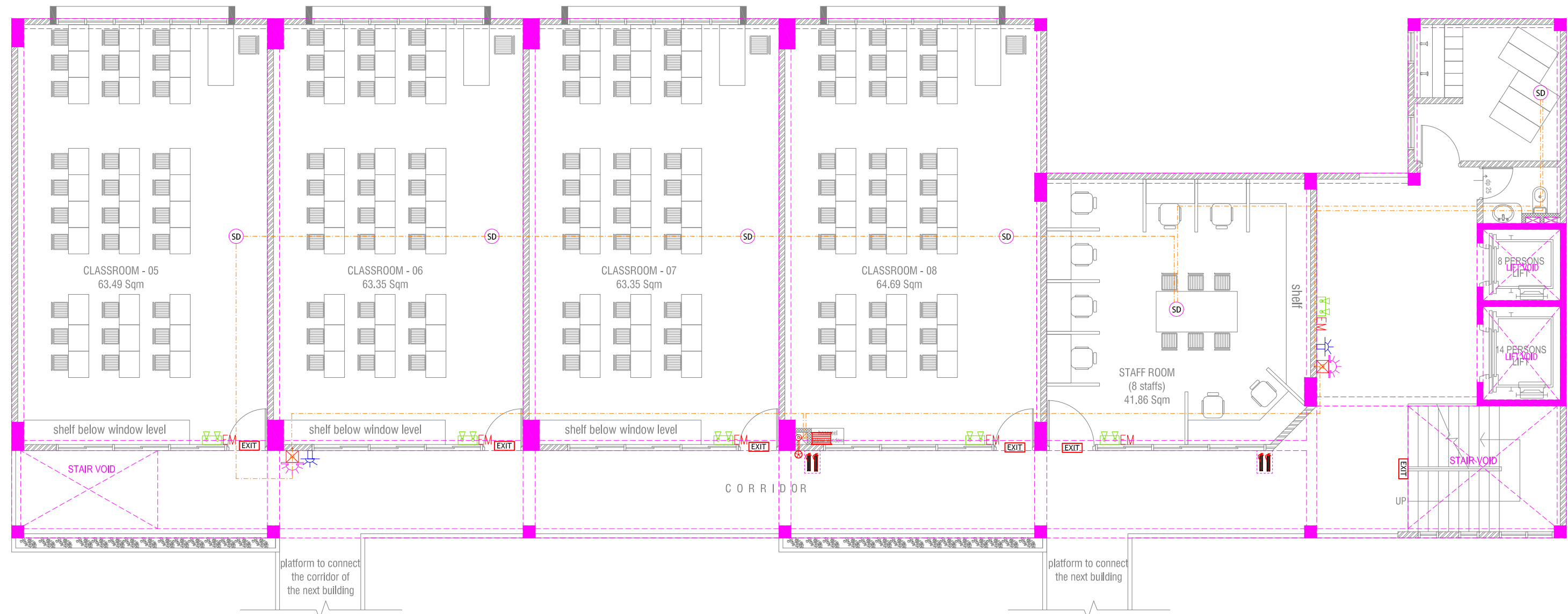


**SCALE 1:100**

0 0.5 1 2 3 4 5

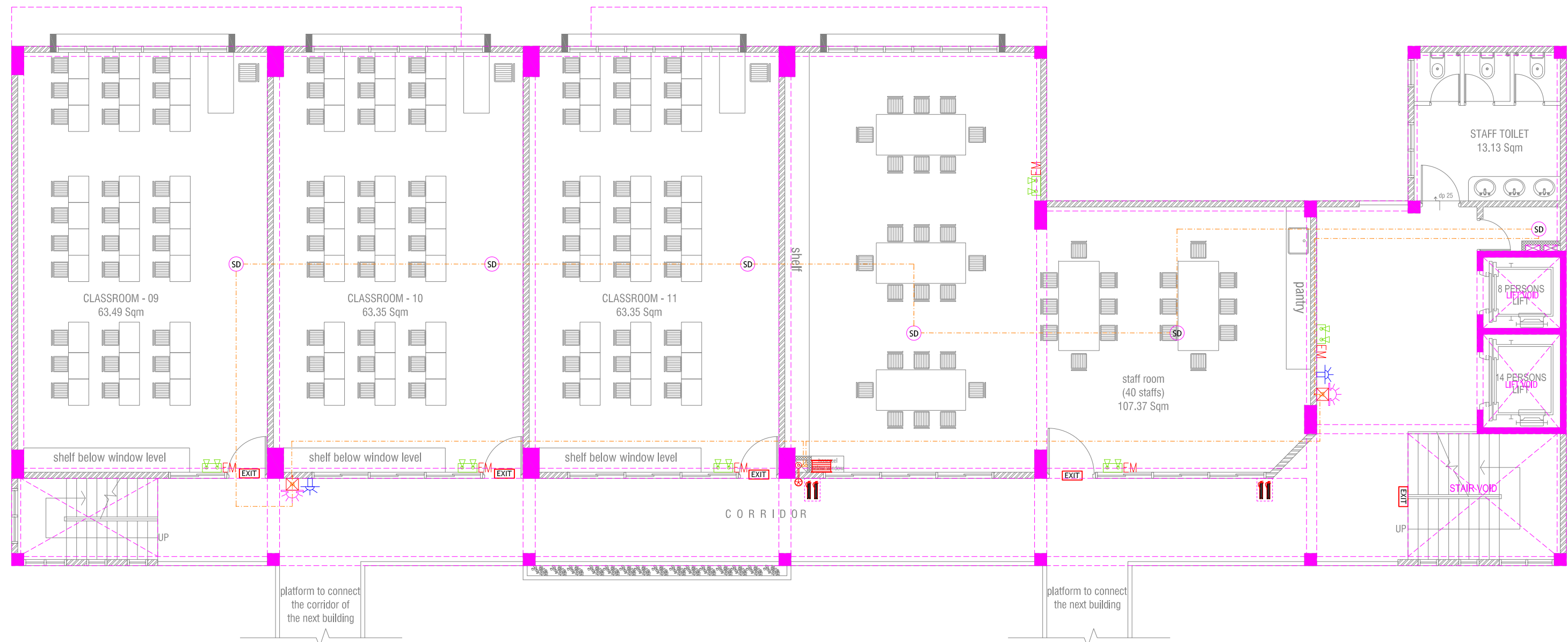


**SCALE 1:100**



**SECOND FLOOR FIRE LAYOUT**

SCALE 1:100



**THIRD FLOOR FIRE LAYOUT**

SCALE 1:100



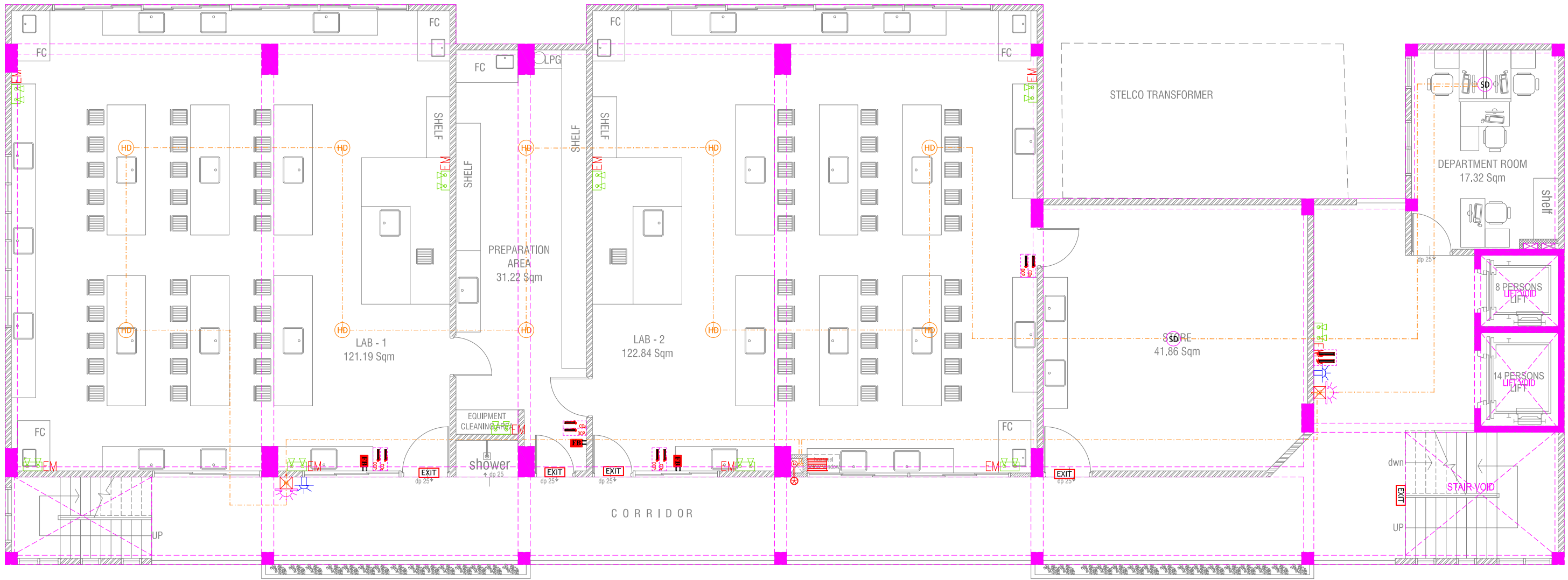
**LEGEND**

- SMOKE DETECTOR
- HEAT DETECTOR
- EXIT SIGN
- EMERGENCY LIGHT
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG)  
IN POLYCARBONATE ENCLOSURE(TYP.)
- DCP EXTINGUISHER (LOAD: 6KG)  
IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.2KG)
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2kg)  
H<sub>2</sub>O EXTINGUISHER (LOAD: 9L)  
IN POLYCARBONATE ENCLOSURE(TYP.)
- END OF LINE RESISTANCE
- FIRE ALARM CONTROL PANEL
- FIRE BLANKET
- MANUAL CALL POINT (RESETTABLE)
- BEACON
- SOUNDER/BELL (85 DB)
- LANDING VALVE
- HOSE REEL (30M)

**Proposed Eight Storey Extension  
At CHSE**

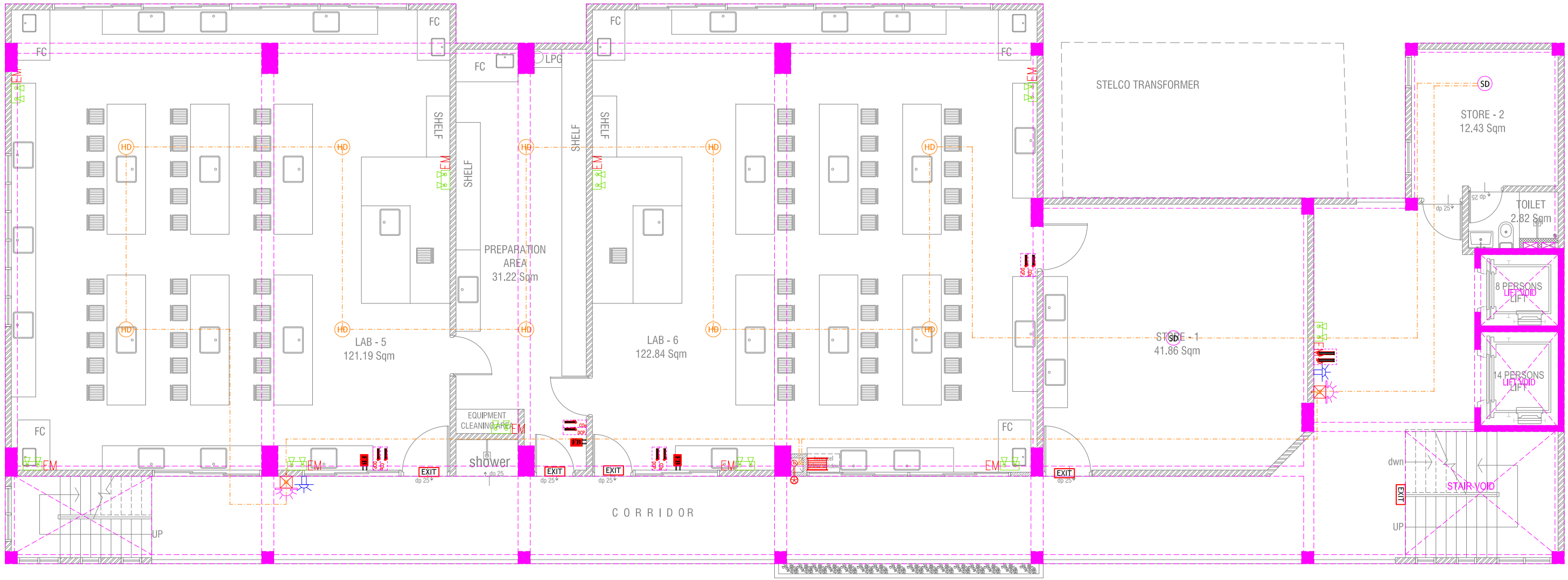
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4	11/01/2016
5	11/01/2016
6	11/01/2016
7	11/01/2016
8	11/01/2016
9	11/01/2016
10	11/01/2016

Client: Ministry Of Education  
Project Number: R/2016/005  
Date: April 2016  
Architect: Fahimath Leena Jaleel  
Engineer: Irfan Waheed  
Drawn by: Fahimath Leena Jaleel



FOURTH FLOOR FIRE LAYOUT

SCALE 1:100



FIFTH FLOOR FIRE LAYOUT

SCALE 1:100

LEGEND

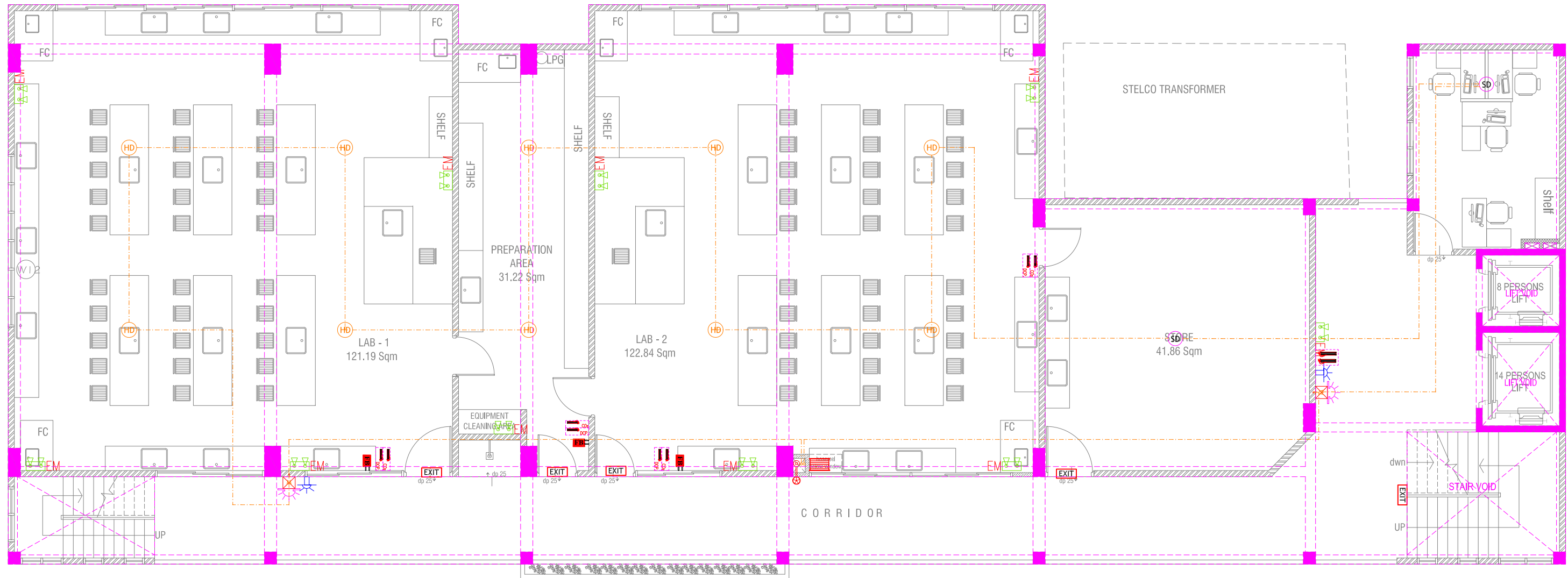
- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT EXIT SIGN
- ELM EMERGENCY LIGHT
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- DCP EXTINGUISHER (LOAD: 6KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.2KG)
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2kg)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)
- ELR END OF LINE RESISTANCE
- FACP FIRE ALARM CONTROL PANEL
- FB FIRE BLANKET
- MCP MANUAL CALL POINT (RESETTABLE)
- B Beacon
- S SOUNDER/BELL (85 DB)
- LV LANDING VALVE
- HR HOSE REEL (30M)

NOTE:

ALL DOORS & WINDOWS FOR LABS ARE 1.5 HOURS FIRE RATED

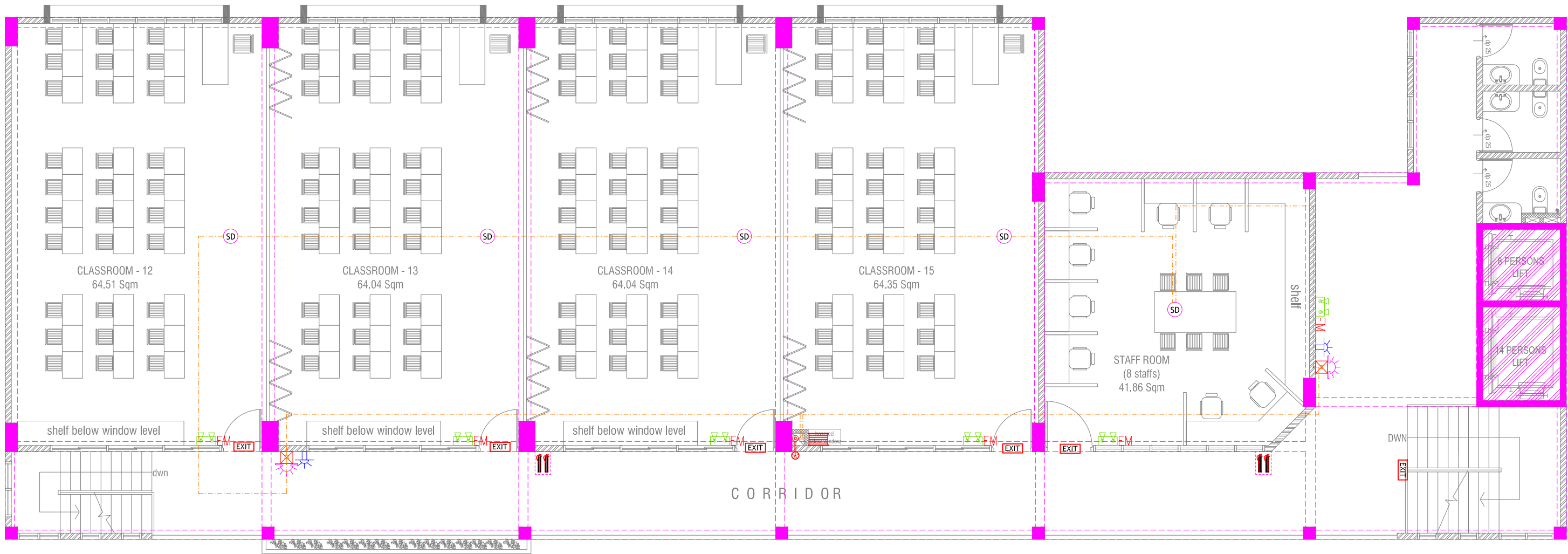
Proposed Eight Storey Extension At CHSE		Client: Ministry Of Education	
Project Number: R/2016/005	Date: April 2016	Rev no	Date
Architect: Fahimath Leena Jaleel	Engineer: Ihsan Wahheed	---	---
Drawn by: Fahimath Leena Jaleel	Checked by: Ihsan Wahheed	---	---





**SIXTH FLOOR LIGHTING LAYOUT**

SCALE 1:100



**SEVENTH FLOOR FIRE LAYOUT**

SCALE 1:100



**LEGEND**

- SMOKE DETECTOR
- HEAT DETECTOR
- EXIT SIGN
- EMERGENCY LIGHT
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- DCP EXTINGUISHER (LOAD: 6KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.2KG)
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2kg)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)
- END OF LINE RESISTANCE
- FIRE ALARM CONTROL PANEL
- FIRE BLANKET
- MANUAL CALL POINT (RESETTABLE)
- BEACON
- SOUNDER/BELL (85 DB)
- LANDING VALVE
- HOSE REEL (30M)

**NOTE:**

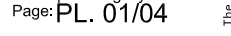
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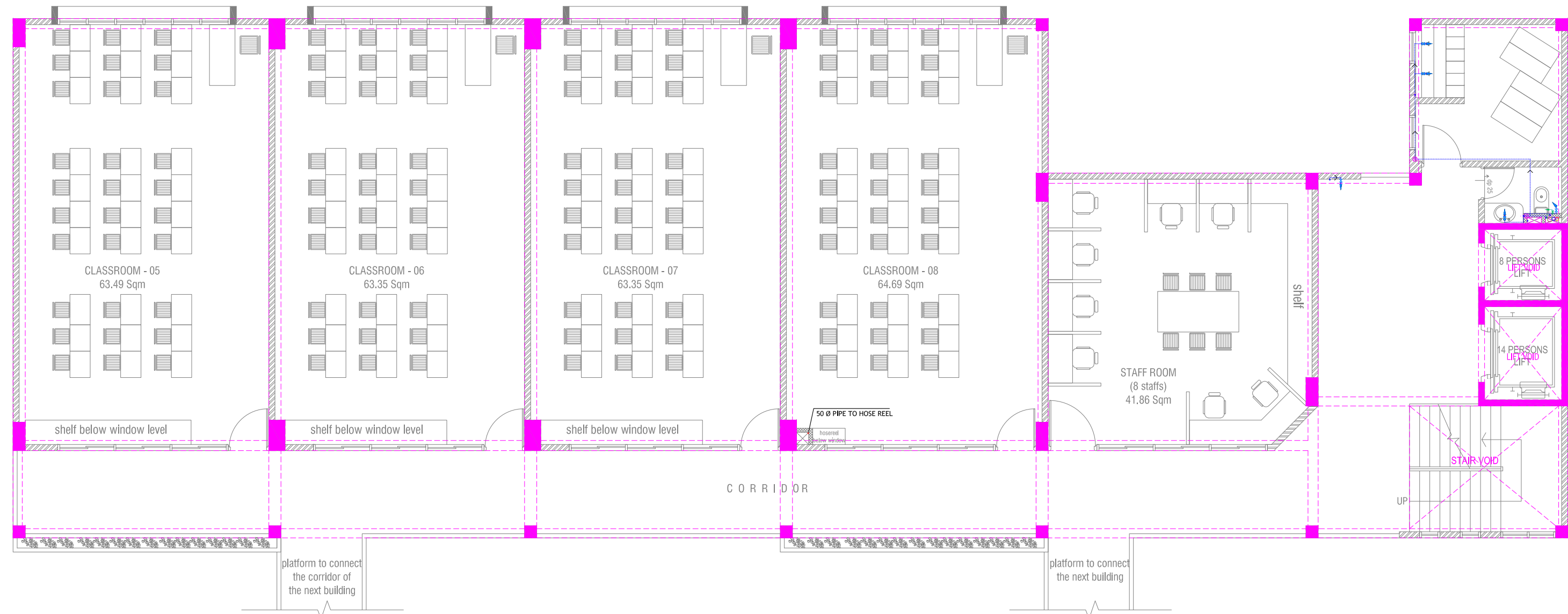
**Proposed Eight Storey Extension At CHSE**

Client: Ministry Of Education  
Project Number: R/2016/005  
Date: April 2016

Rev no  
Date  
Architect: Fahimath Leena Jaleel  
Engineer: Irfan Waheed  
Drawn by: Fahimath Leena Jaleel

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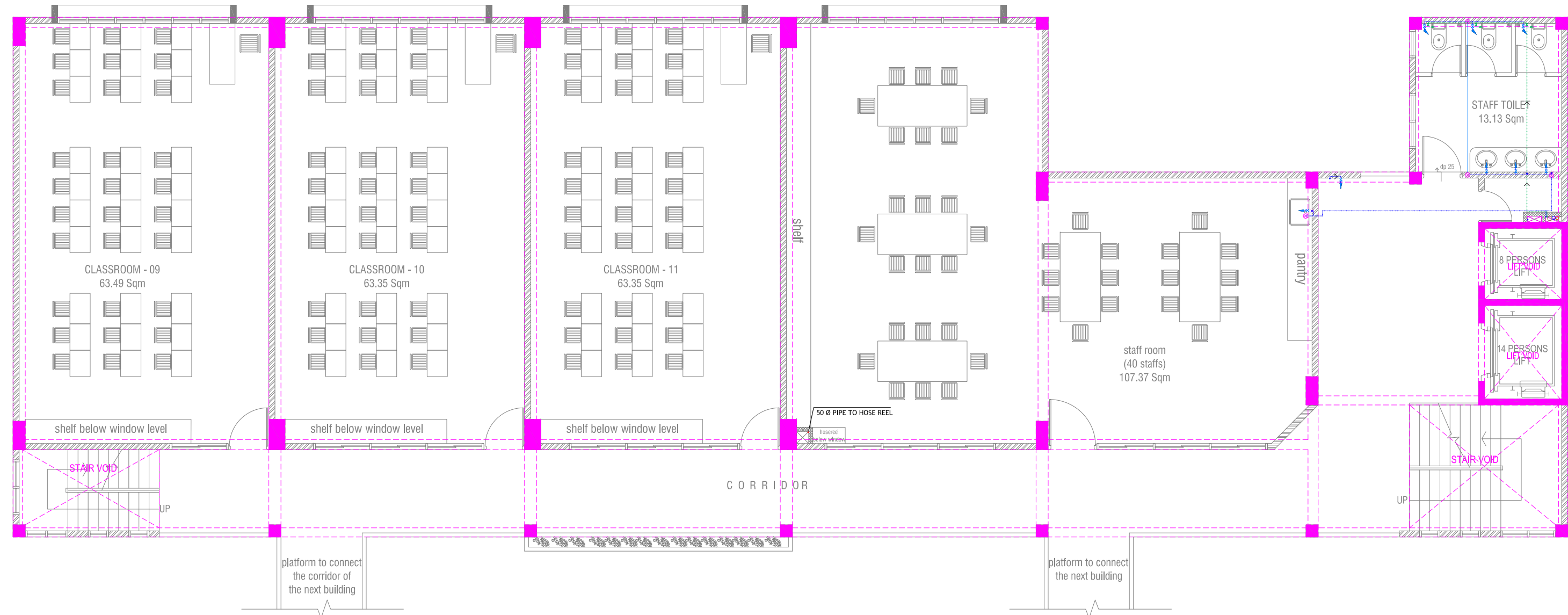




## SECOND FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5



## THIRD FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

### LEGEND

- 16 Ø RAIN WATER / GROUND WATER SUPPLY TO CISTERN
- 16 Ø GROUND WATER SUPPLY TO BIDET SHOWER
- 16 Ø GROUND WATER SUPPLY TO BASIN FAUCET / SINK / HEAD SHOWER / WALL TAP
- GATE VALVE
- 25 Ø RAIN WATER SUPPLY PIPES
- 25 Ø GROUND WATER SUPPLY PIPES
- 25 Ø COLD WATER SUPPLY PIPES RUN ABOVE FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- FOUNDATION / BEAM PLAN

### Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education  
Project Number: R/2016/005  
Date: April 2016

Architect: Fahimath Leena Jaleel  
Engineer: Irfan Waheed  
Drawn by: Fahimath Leena Jaleel

Rev no Date



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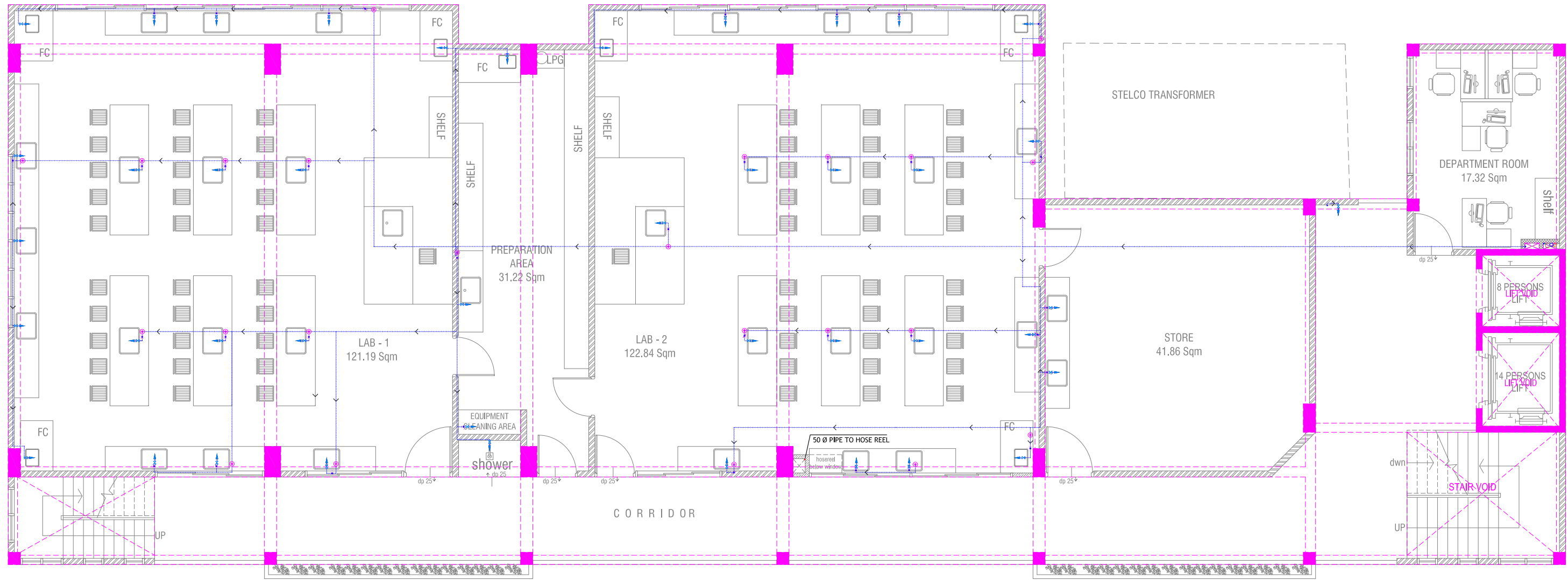
3rd floor, 10, Azumi, Aradomorgu, Male'

Title: Second & Third Floor  
plumbing layout

Page: PL. 02/04

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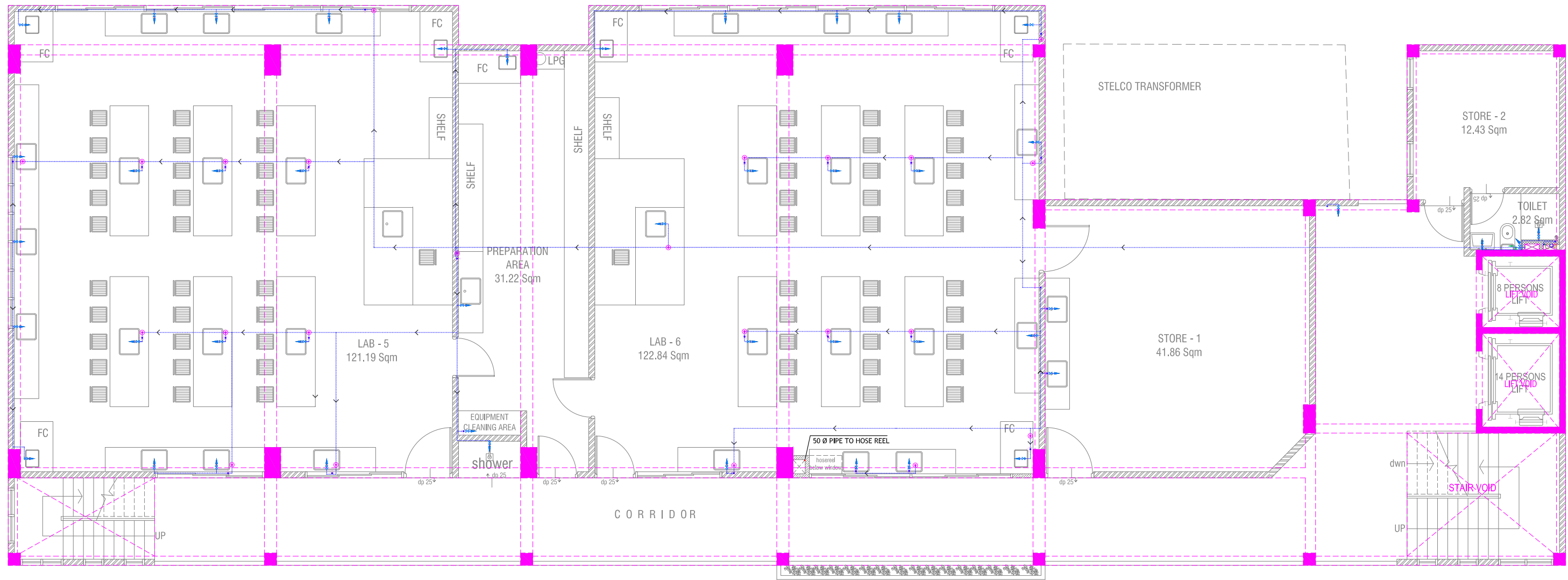




**FOURTH FLOOR PLUMBING LAYOUT**

SCALE 1:100

0 0.5 1 2 3 4 5



**FIFTH FLOOR PLUMBING LAYOUT**

SCALE 1:100

0 0.5 1 2 3 4 5

- LEGEND**
- 16 Ø RAIN WATER / GROUND WATER SUPPLY TO CISTERN
  - 16 Ø GROUND WATER SUPPLY TO BIDET SHOWER
  - 16 Ø GROUND WATER SUPPLY TO BASIN FAUCET / SINK / HEAD SHOWER / WALL TAP
  - GATE VALVE
  - 25 Ø RAIN WATER SUPPLY PIPES
  - 25 Ø GROUND WATER SUPPLY PIPES
  - 25 Ø COLD WATER SUPPLY PIPES RUN ABOVE FALSE CEILING
  - RISE IN WALL
  - DROP IN WALL
  - FOUNDATION / BEAM PLAN

Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Irfan Waheed

Drawn by: Fahimath Leena Jaleel

Checked by: Irfan Waheed

Approved by: Irfan Waheed

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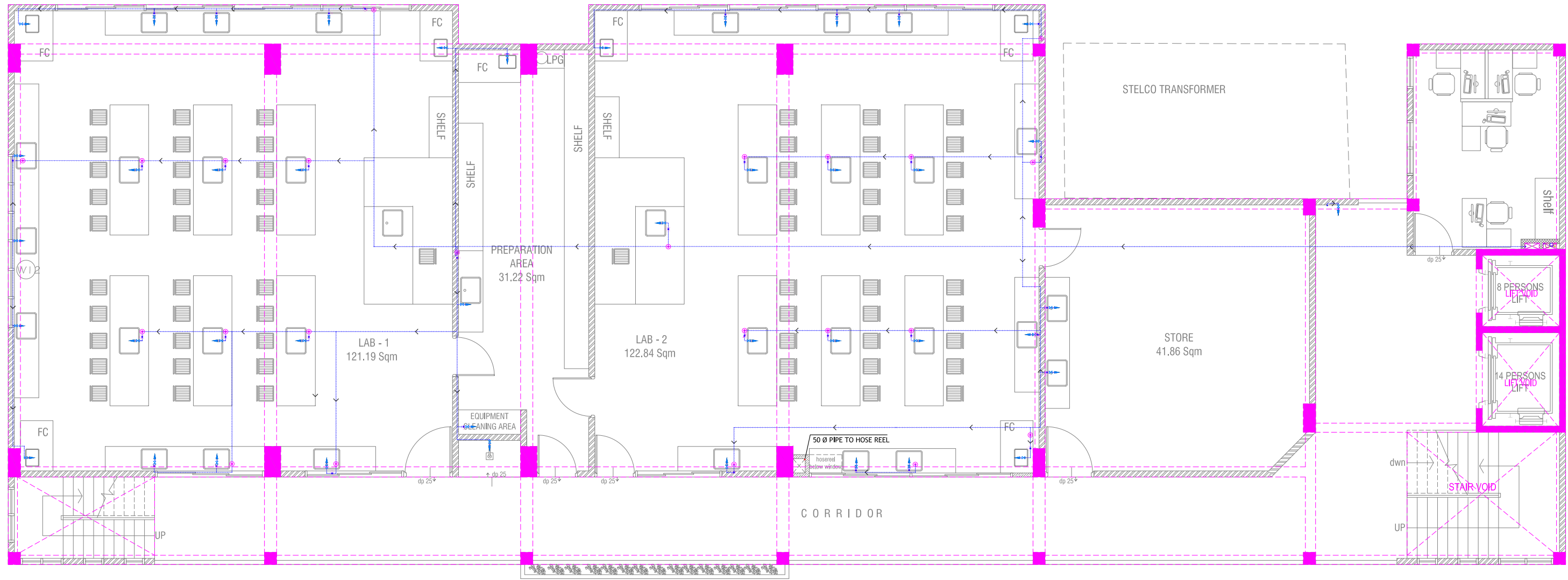
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3rd floor, 10, Azumi, Avenue, Malé

Title: Fourth - Sixth Floor

plumbing layout

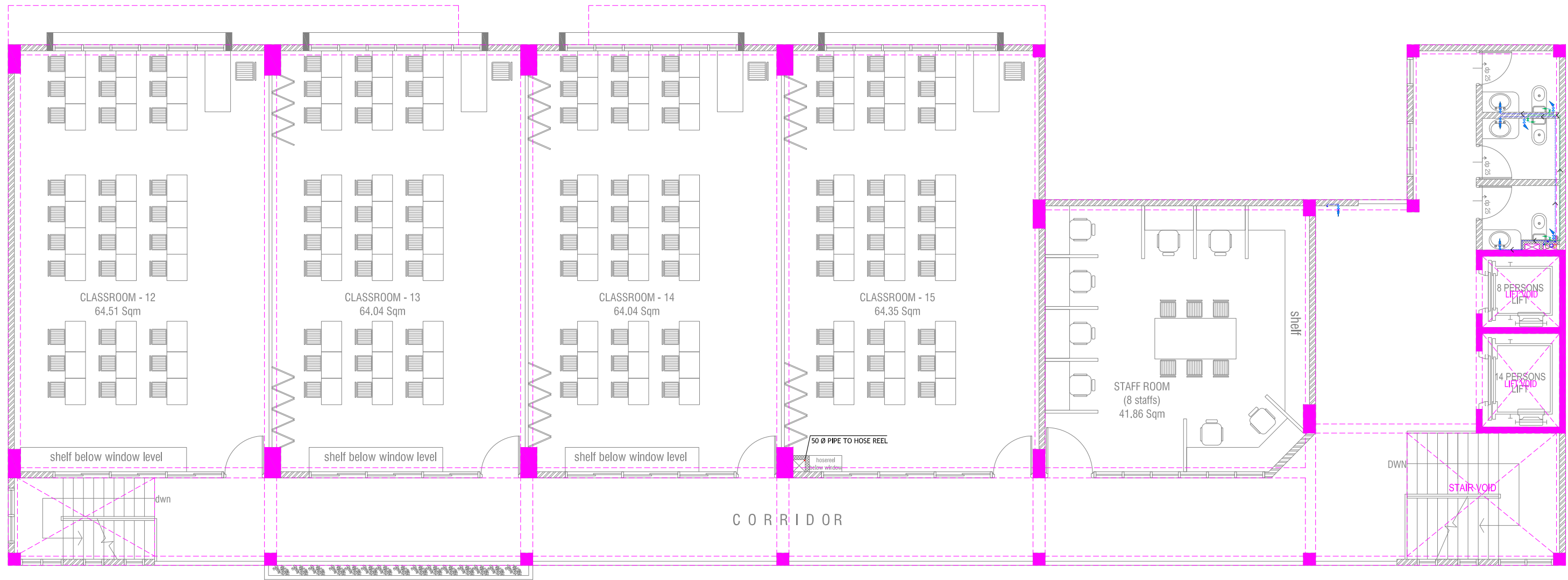
Page: PL. 03/04



# SIXTH FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5



# SEVENTH FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

## LEGEND

- 16 Ø RAIN WATER / GROUND WATER SUPPLY TO CISTERN
- 16 Ø GROUND WATER SUPPLY TO BIDET SHOWER
- 16 Ø GROUND WATER SUPPLY TO BASIN FAUCET / SINK / HEAD SHOWER / WALL TAP
- GATE VALVE
- 25 Ø RAIN WATER SUPPLY PIPES
- 25 Ø GROUND WATER SUPPLY PIPES
- 25 Ø COLD WATER SUPPLY PIPES RUN ABOVE FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- FOUNDATION / BEAM PLAN

Proposed Eight Storey Extension

At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

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Architect: Fahimath Leena Jaleel

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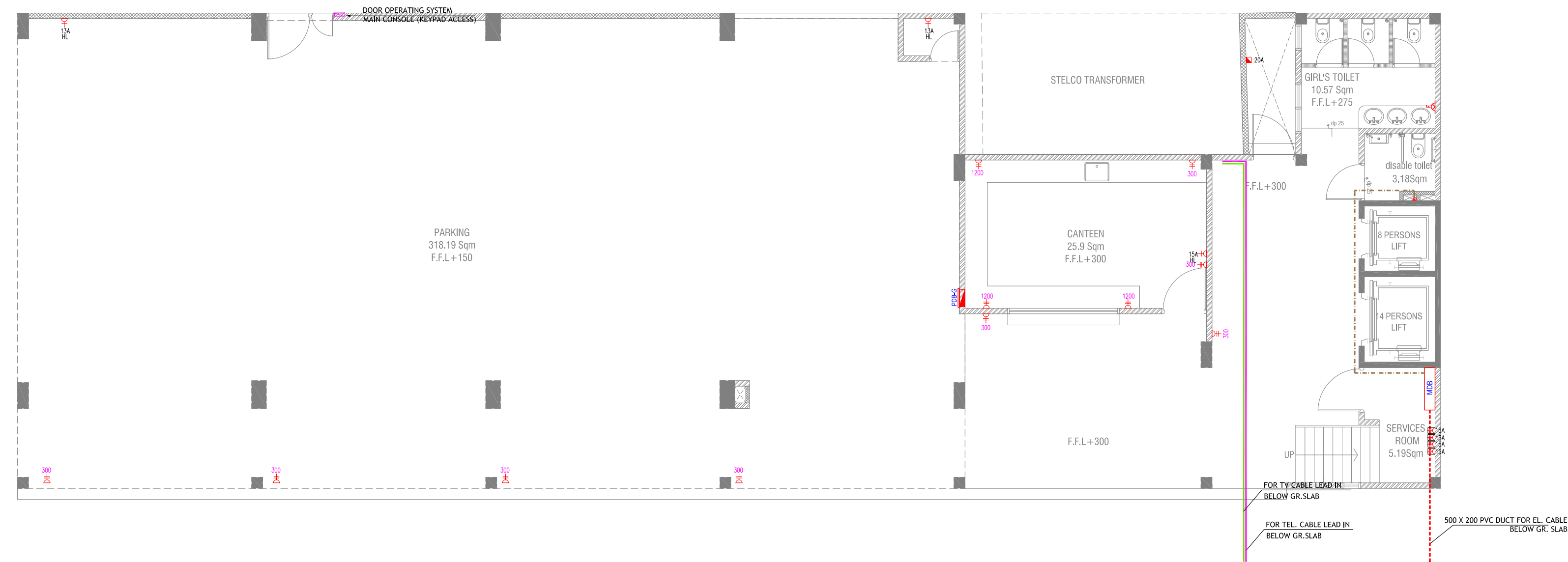
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3rd floor, 10, Azumi, Aradomorgu, Male'

Title: Sixth & Seventh Floor

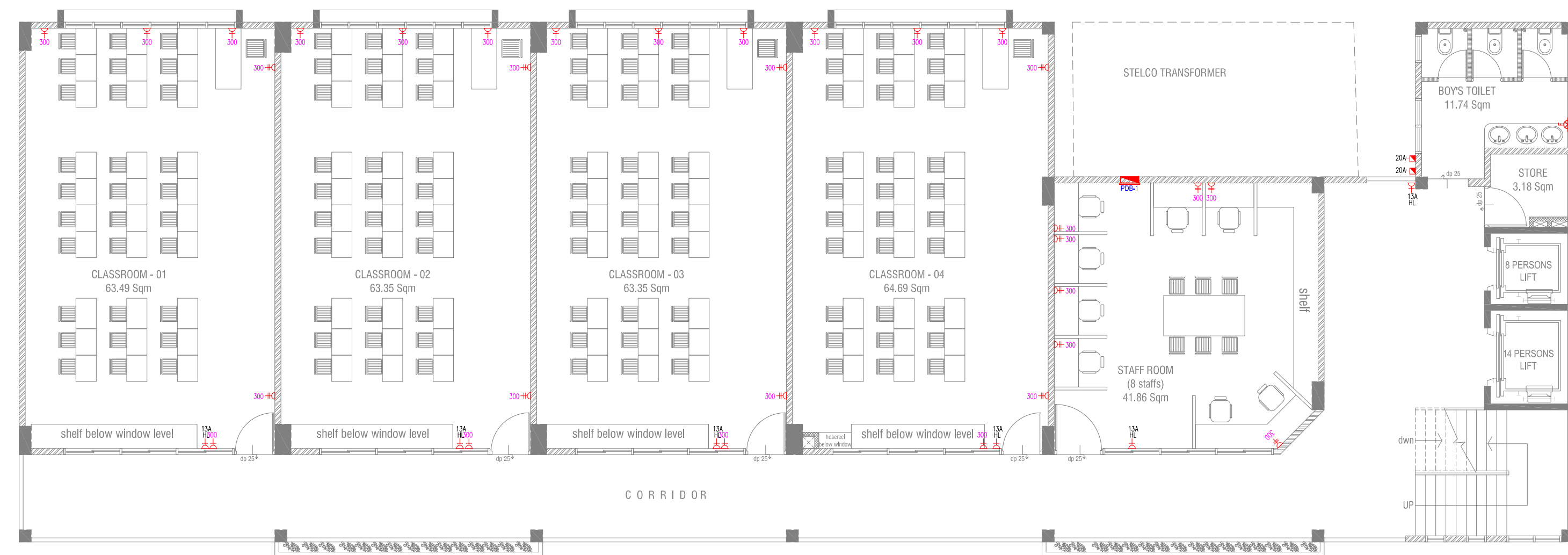
plumbing layout

Page: PL. 04/04



**GROUND FLOOR POWER LAYOUT**

SCALE 1:100



**FIRST FLOOR POWER LAYOUT**

SCALE 1:100



**LEGEND**

- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- TV POINT
- FLEX. POWER OUTLET W/ COVER PLATE
- DISTRIBUTION BOX
- TPN ISOLATOR
- SPN ISOLATOR
- POLYCARBONATE WP ENCLOSURE

**Proposed Eight Storey Extension  
At CHSE**

Client: Ministry Of Education

Project Number: R/2016/005

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed

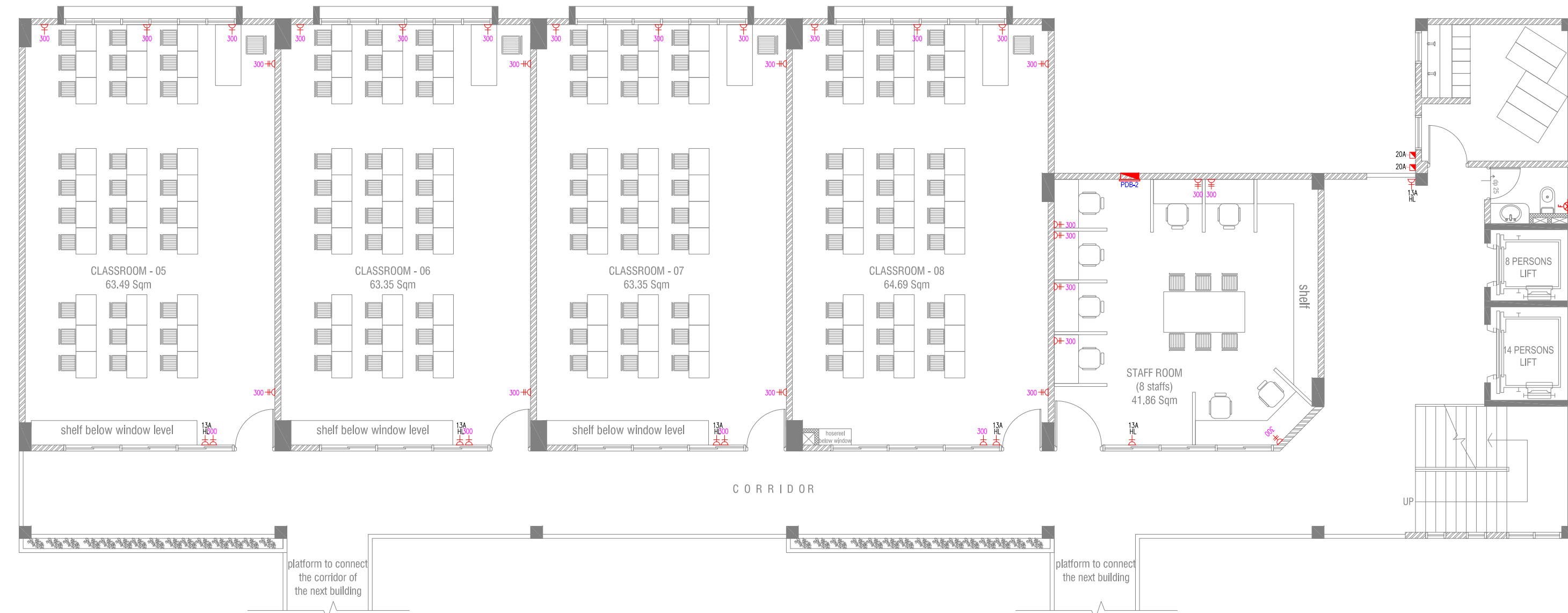


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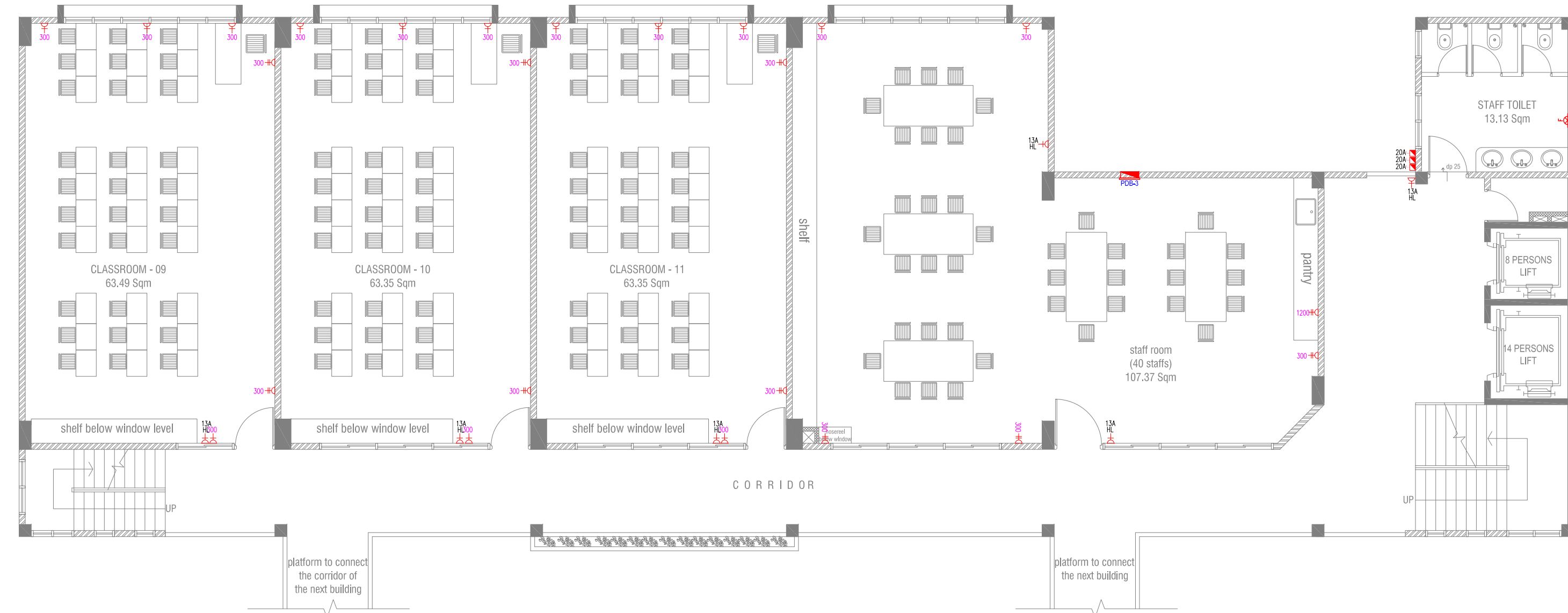
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**SECOND FLOOR POWER LAYOUT**

SCALE 1:100



**THIRD FLOOR POWER LAYOUT**

SCALE 1:100



**LEGEND**

- ▲ PHONE EXTENSION
- ▲ COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- ▲ TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- TV POINT
- FLEX. POWER OUTLET W/ COVER PLATE
- DISTRIBUTION BOX
- TPN ISOLATOR
- SPN ISOLATOR
- POLYCARBONATE WP ENCLOSURE

**Proposed Eight Storey Extension  
At CHSE**

Client: Ministry Of Education

Project Number: R/2016/005

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waheed



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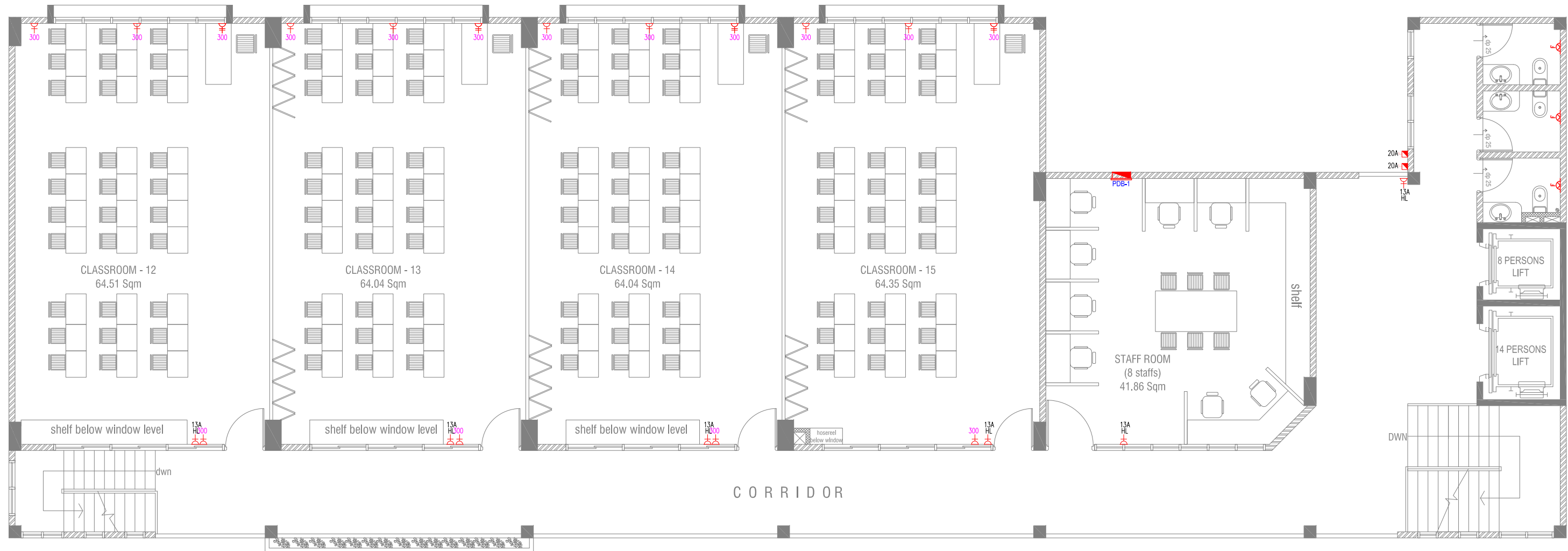
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**SIXTH FLOOR LIGHTING LAYOUT**

SCALE 1:100  
0 0.5 1 2 3 4 5



**SEVENTH FLOOR POWER LAYOUT**

SCALE 1:100  
0 0.5 1 2 3 4 5

**LEGEND**

- ▲ PHONE EXTENSION
- ▲ COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- ▲ TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- TV POINT
- FLEX. POWER OUTLET W/ COVER PLATE
- DISTRIBUTION BOX
- TPN ISOLATOR
- SPN ISOLATOR
- POLYCARBONATE WP ENCLOSURE

**Proposed Eight Storey Extension  
At CHSE**

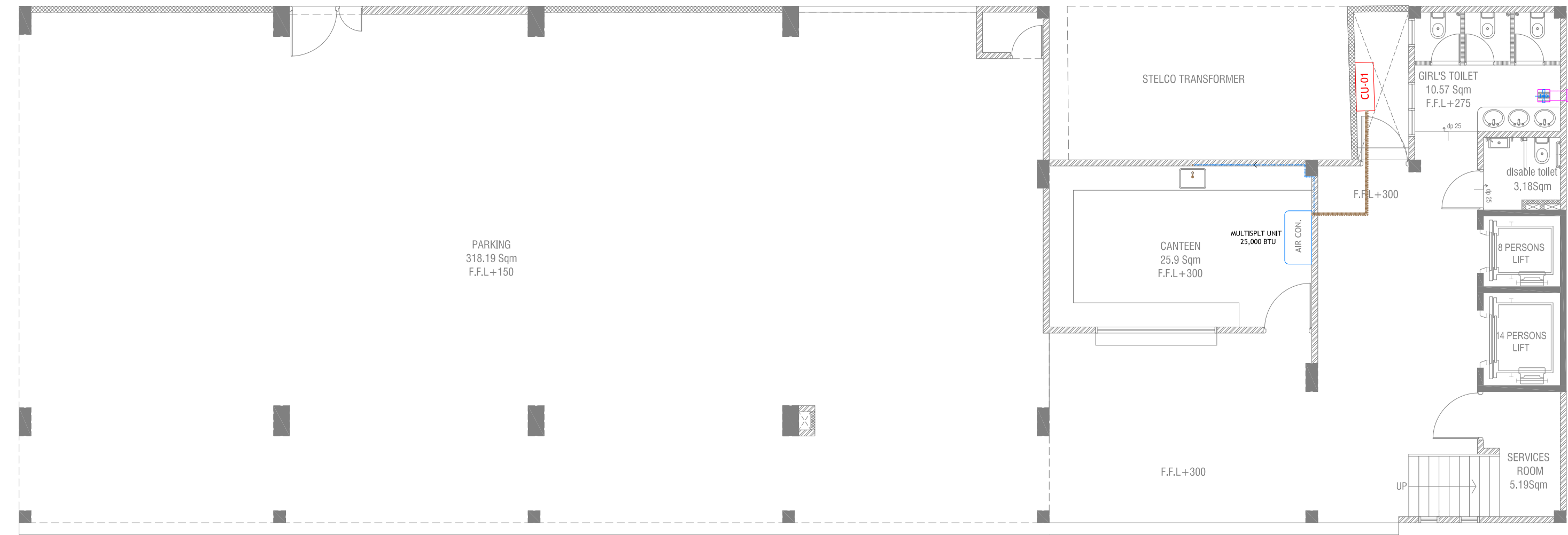
Client: Ministry Of Education  
Project Number: R/2016/005  
Date: April 2016  
Architect: Fahimath Leena Jaleel  
Engineer: Ihsan Waheed  
Drawn by: Fahimath Leena Jaleel



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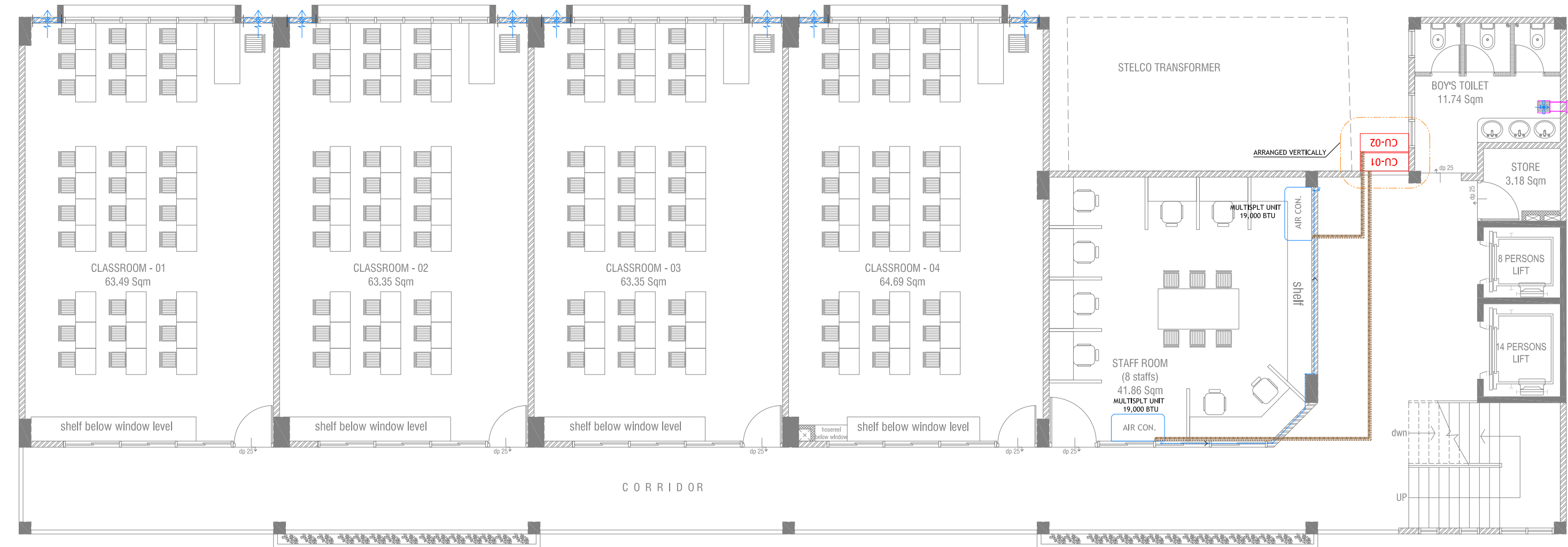
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## GROUND FLOOR ACV LAYOUT

SCALE 1:100



## FIRST FLOOR ACV LAYOUT

SCALE 1:100



### LEGEND

- CEILING MOUNTED EXHAUST FAN WITH AUTO SHUTTER, 90M3/HR
- FUME CUPBOARD HOOD EXTRACT COMPLETE WITH AUTO SHUTTER 1200 M3/hr.
- 1800 M3/HR WALL MOUNTED EXHAUST FAN WITH AUTO SHUTTER

### Proposed Eight Storey Extension At CHSE

Client: Ministry Of Education

Project Number: R/2016/005

Date: April 2016

Architect: Fahimath Leena Jaleel

Engineer: Ihsan Waleed



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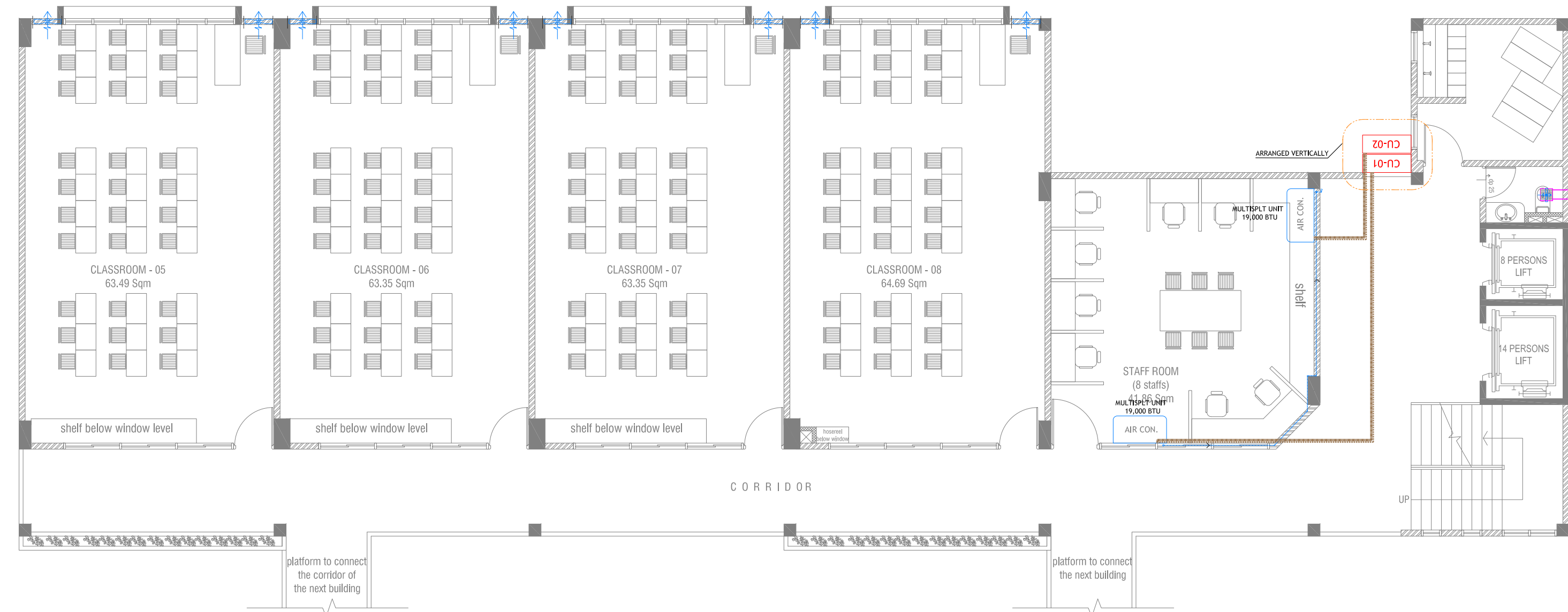
3rd floor, 11, Azumi, Aradomoomagui, Male'

Title: Ground & First Floor

ACV layout

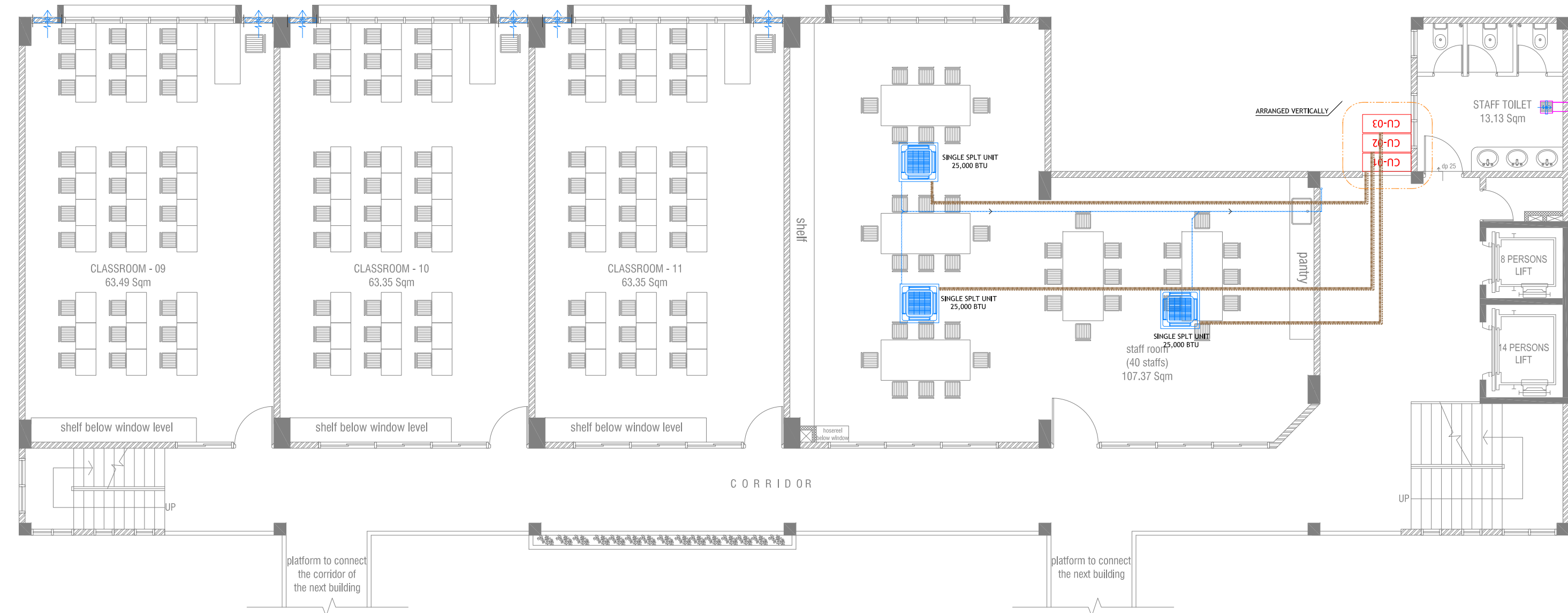
Page: ACV. 01/04

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**SECOND FLOOR ACV LAYOUT**

SCALE 1:100



**THIRD FLOOR ACV LAYOUT**

SCALE 1:100



**LEGEND**

- CEILING MOUNTED EXHAUST FAN WITH AUTO SHUTTER, 90M3/HR
- FUME CUPBOARD HOOD EXTRACT COMPLETE WITH AUTO SHUTTER 1200 M3/hr.
- 1800 M3/HR WALL MOUNTED EXHAUST FAN WITH AUTO SHUTTER

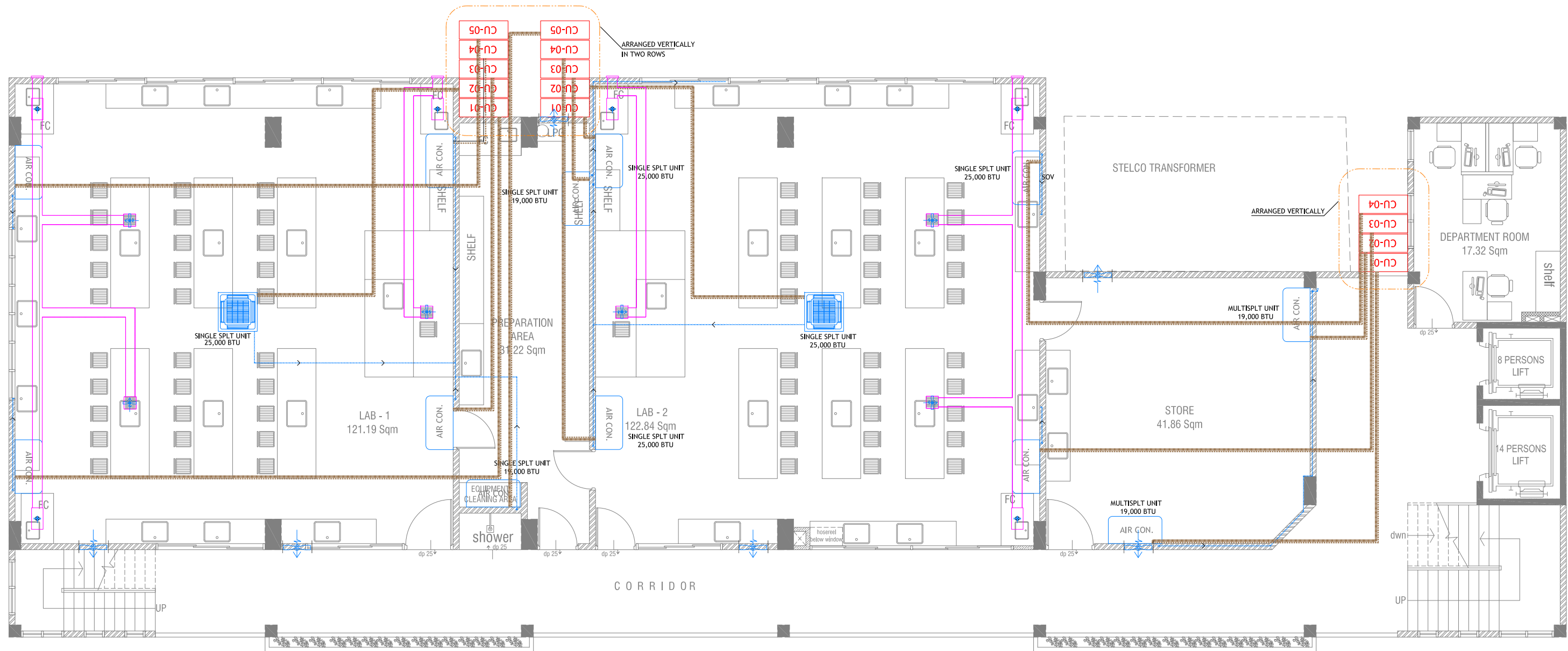
**Proposed Eight Storey Extension At CHSE**

Client: Ministry Of Education  
 Project Number: R/2016/005  
 Date: April 2016  
 Architect: Fahimath Leena Jaleel  
 Engineer: Ihsan Waheed  
 Drawn by: Fahimath Leena Jaleel



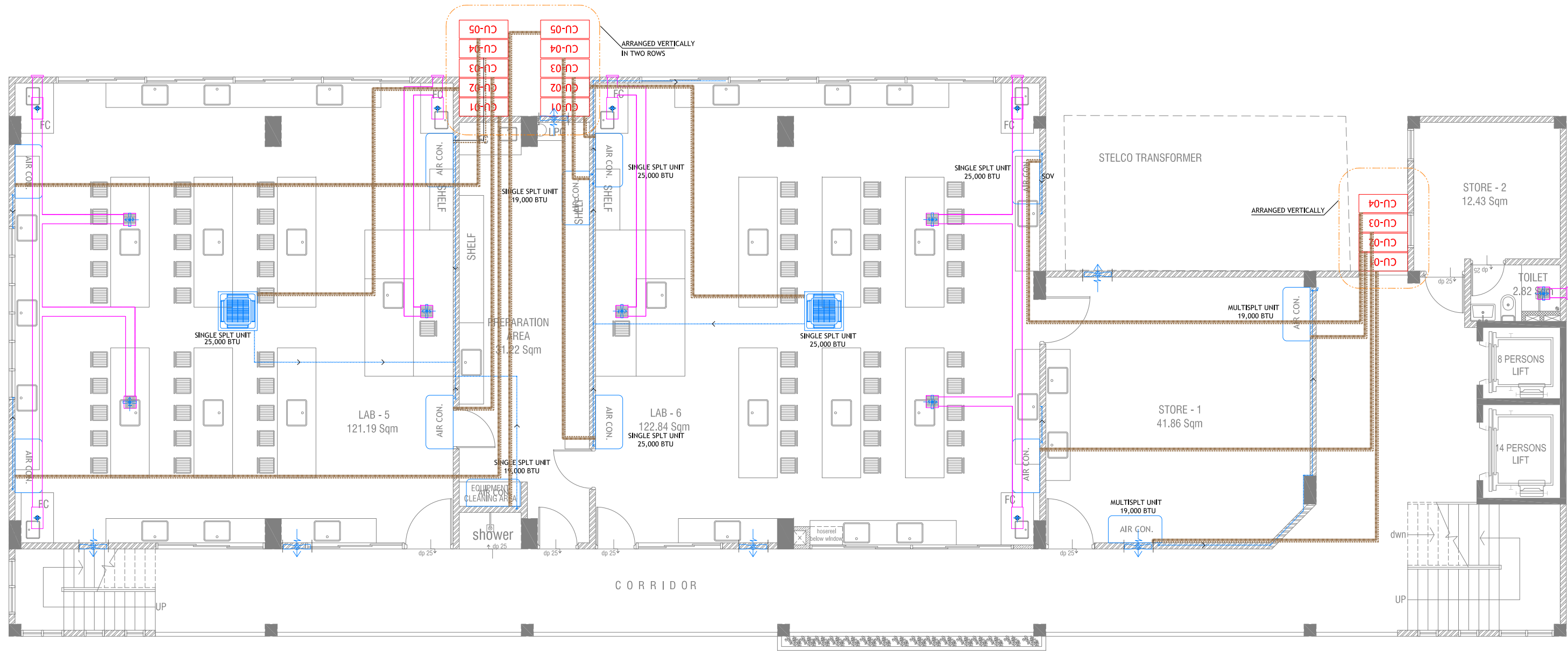
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**FOURTH & SIXTH FLOOR POWER LAYOUT**

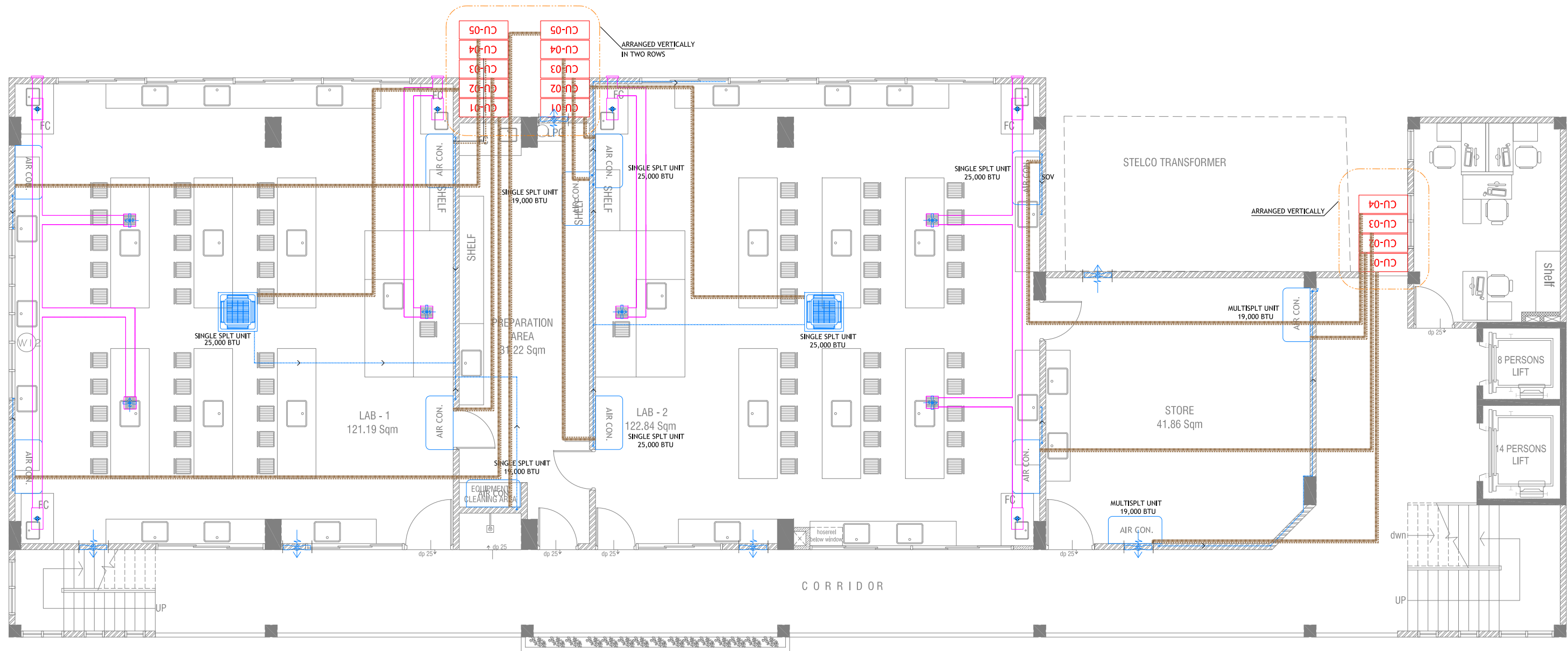
SCALE 1:100  
0 0.5 1 2 3 4 5



**FIFTH FLOOR POWER LAYOUT**

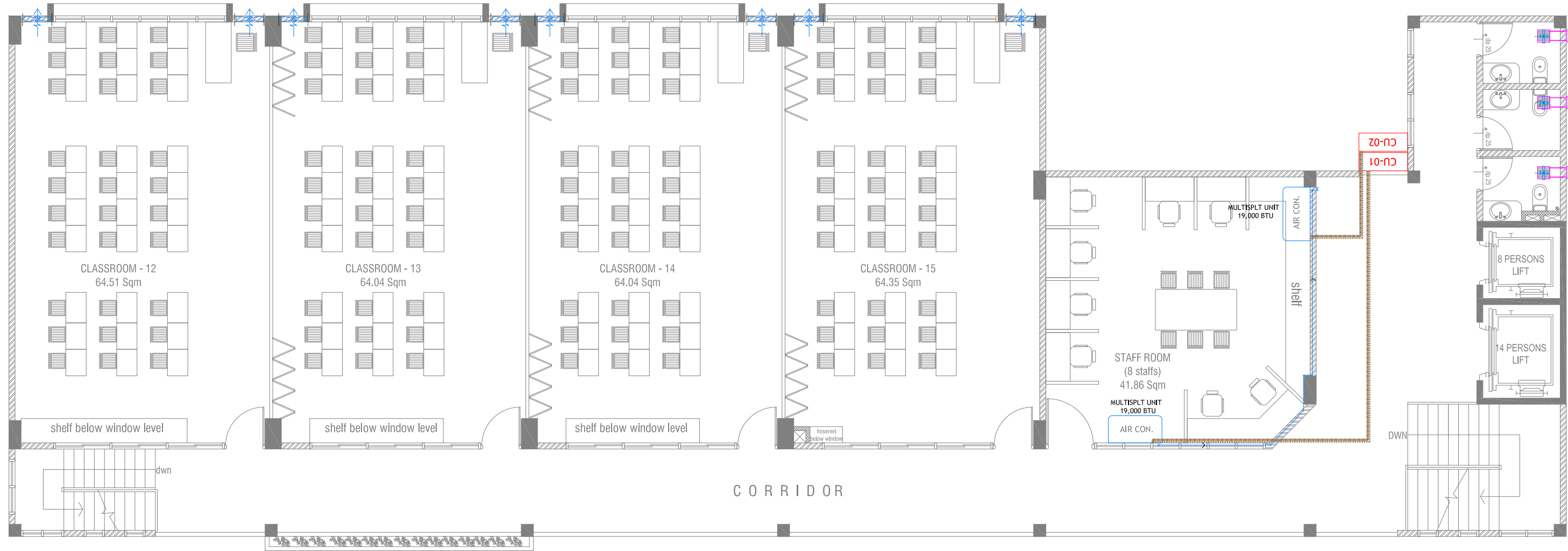
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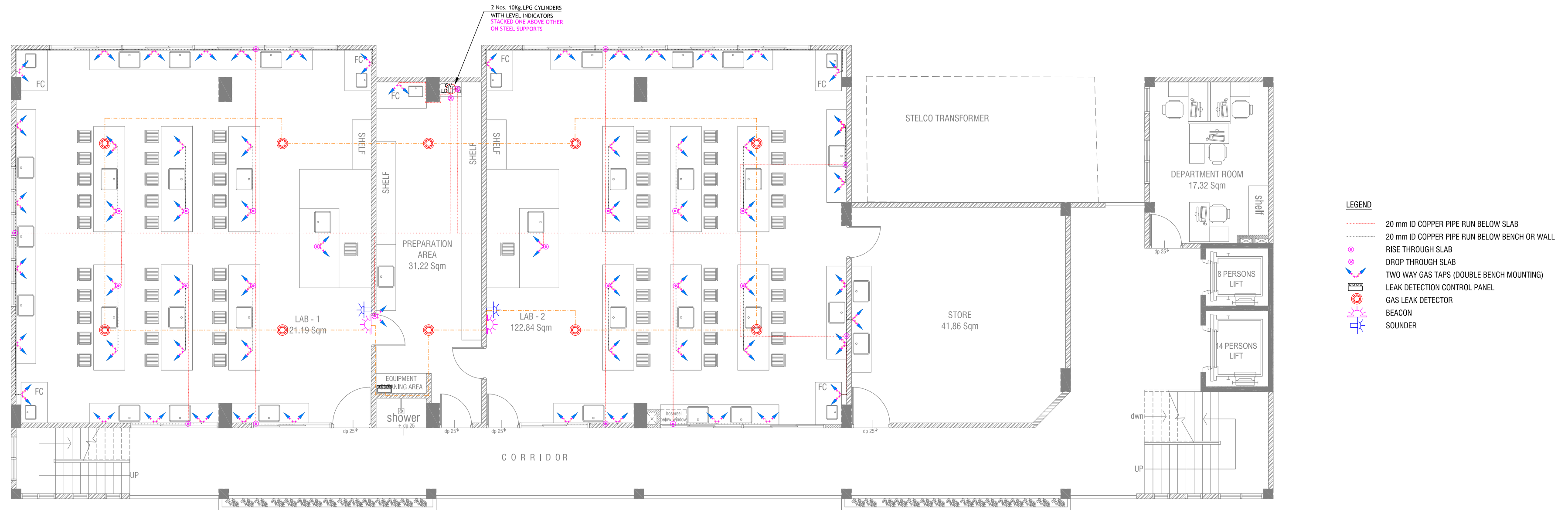
**SIXTH FLOOR LIGHTING LAYOUT**

SCALE 1:100  
0 0.5 1 2 3 4 5



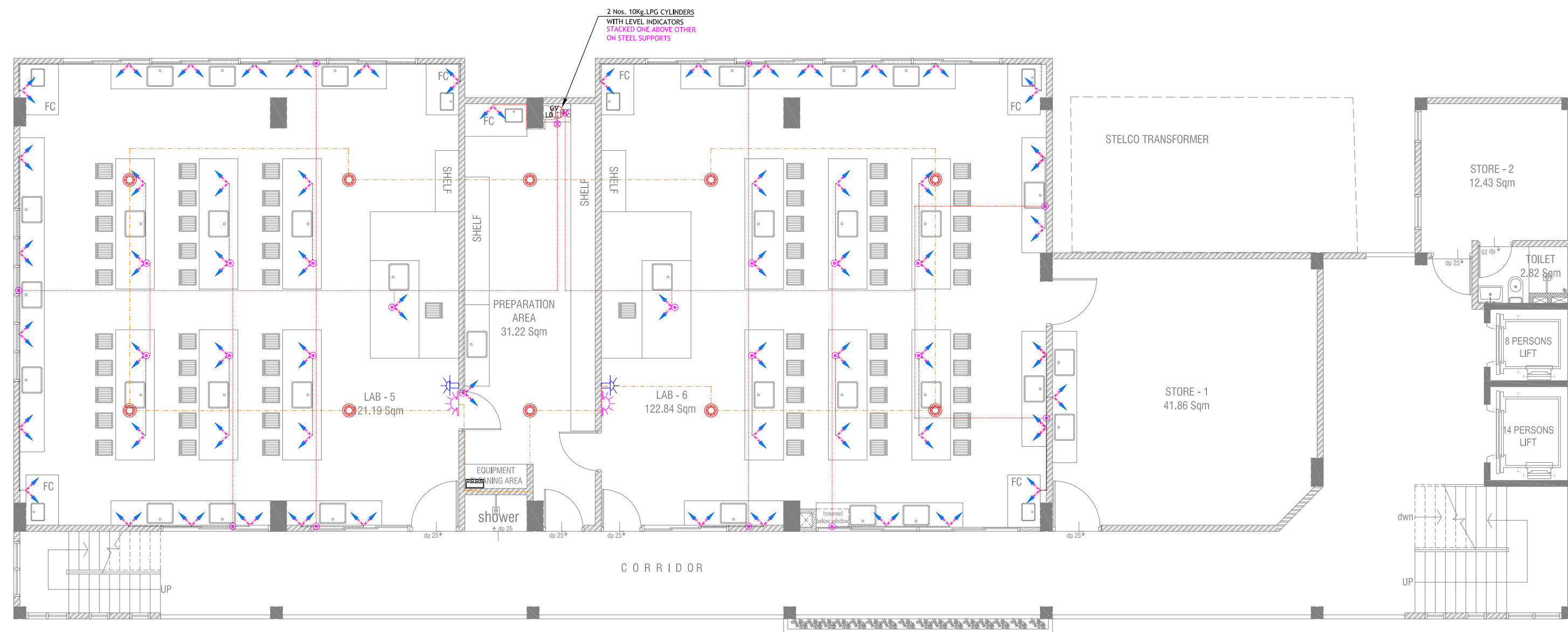
**SEVENTH FLOOR POWER LAYOUT**

SCALE 1:100  
0 0.5 1 2 3 4 5



#### FOURTH FLOOR LPG LAYOUT

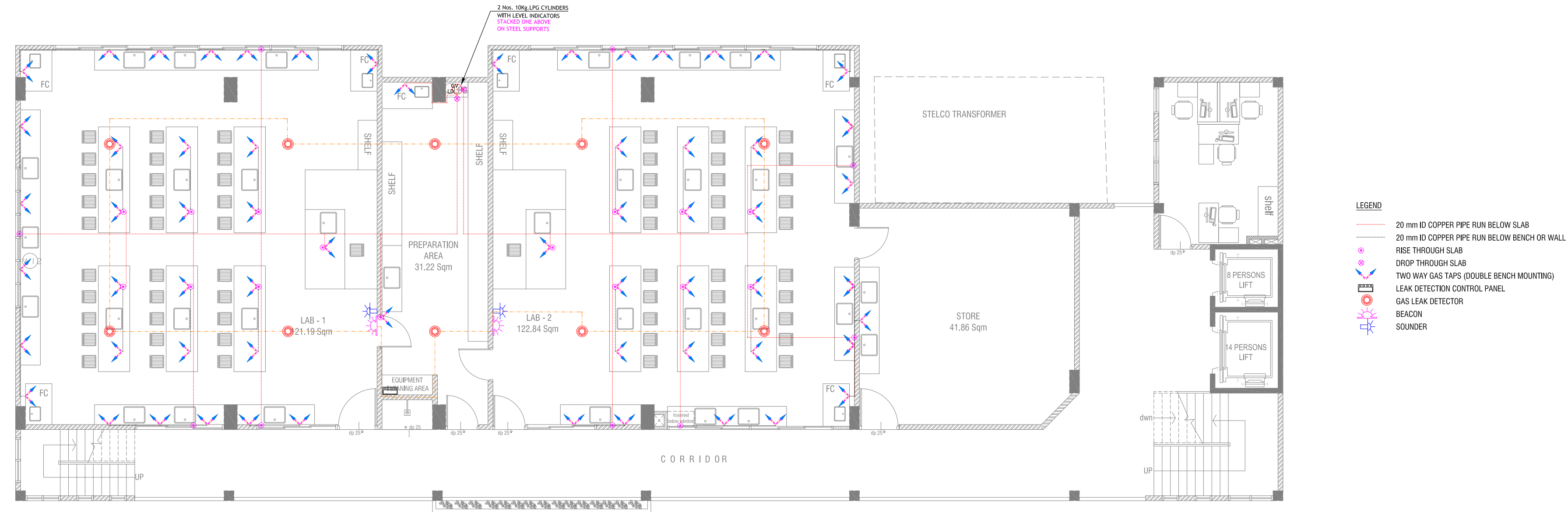
SCALE 1:100



#### FIFTH FLOOR LPG LAYOUT

SCALE 1:100





# SIXTH FLOOR LPG LAYOUT

SCALE 1:100



Rev no	Date
1	2016/03/05
2	2016/03/05
3	2016/03/05
4	2016/03/05
5	2016/03/05

Centre for Higher  
Secondary Education  
Client: Ministry Of Education  
Project Number: 80/2016/005  
Date: 21st March 2016  
Architect: Fahimath Leena Jaleel  
Engineer: Ihsan Waheed  
Drawn by: Fahimath Leena Jaleel  
Checked by: Ihsan Waheed  
Approved by: Ihsan Waheed



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Title: Sixth Floor LPG Layout

Page: LPG, - 02/02

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