

MODEL MARKET 2



CLIENT:

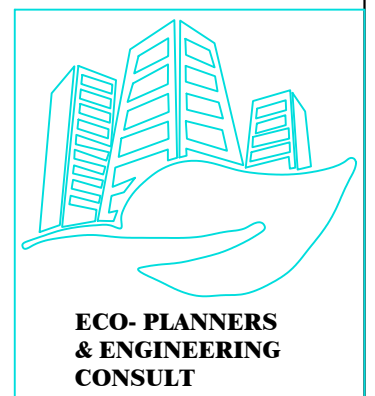
**MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS**

PROJECT:

**PROPOSED 24-HOUR ECONOMY MARKET
&
COMMERCIAL CENTRE**



LOCATION :



ELECTRICAL, FIRE SYSTEM, AC & PLUMBING DRAWINGS

Lighting · Power · H.V.A.C · Fire Alarm · Plumbing · Schematics

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE — MODEL MARKET 2 · ALL BLOCKS

DRAWING SCHEDULE

Client: Ministry of Local Government,
Chieftaincy & Religious Affairs

Eco-Planners & Engineering Consult

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1	General	Electrical, Fire System, AC & Plumbing Drawings — Section Cover	p. 108
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3	Block A	Electrical Lighting (Sub-section Cover)	p. 110
4	Block A	Electrical Layout (Lighting System) — Ground Floor	p. 111
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ELECTRICAL, FIRE SYSTEM, AC & PLUMBING DRAWINGS

Lighting · Power · H.V.A.C · Fire Alarm · Plumbing · Schematics

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE — MODEL MARKET 2 · ALL BLOCKS

DRAWING SCHEDULE

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Eco-Planners & Engineering Consult

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ELECTRICAL, FIRE SYSTEM, AC & PLUMBING DRAWINGS

Lighting · Power · H.V.A.C · Fire Alarm · Plumbing · Schematics

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE — MODEL MARKET 2 · ALL BLOCKS

DRAWING SCHEDULE

Client: Ministry of Local Government,
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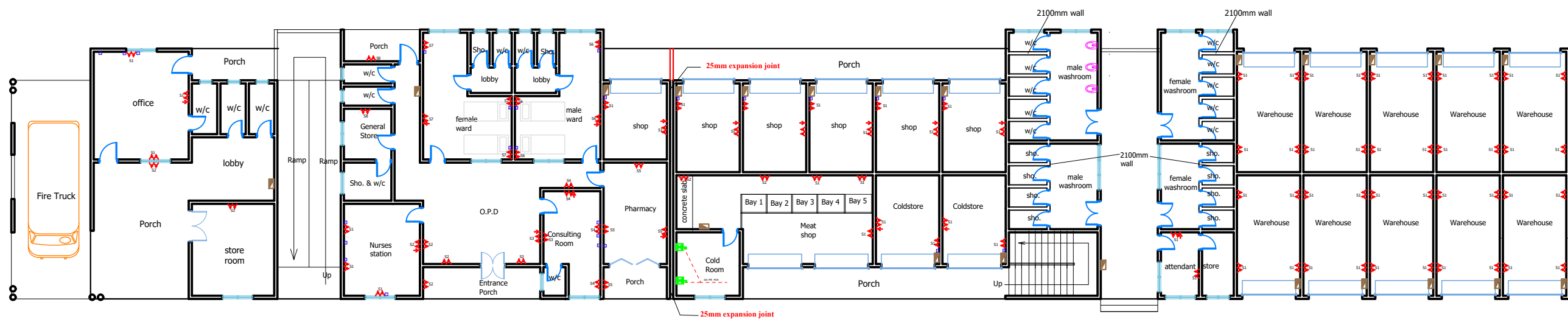
SHEET	BLOCK	DRAWING TITLE	PAGE IN ORIGINAL SET
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ELECTRICAL, FIRE SYSTEM, AC & PLUMBING DRAWINGS

BLOCK A

ELECTRICAL LIGHTING

POWER DRAWINGS



LEGEND
(POWER LOAD)

SYMBOL	DESCRIPTION	1	2	3	4
	1 x 1000 watt water heater	10	0.600	05.0	0.6 03.10
	100 W light	0			1L 10.234
	TV stand	12	0	0	0 0
	Bed stand	29	0	0	0 0
	Telephone stand	2	0	0	0 0
	Hand dryer	6	0	0	0 0
	Distribution board	3	0	0	0 0
	Panel board	0	0	0	0 0

GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

ELECTRICAL LAYOUT (POWER SYSTEM)

DATE:

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT ("++233 247 898" 540 OR
"++233 242 316 175" or "++233 271 010 146") ECO PLANNERS &
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SCALE:

1 : 100

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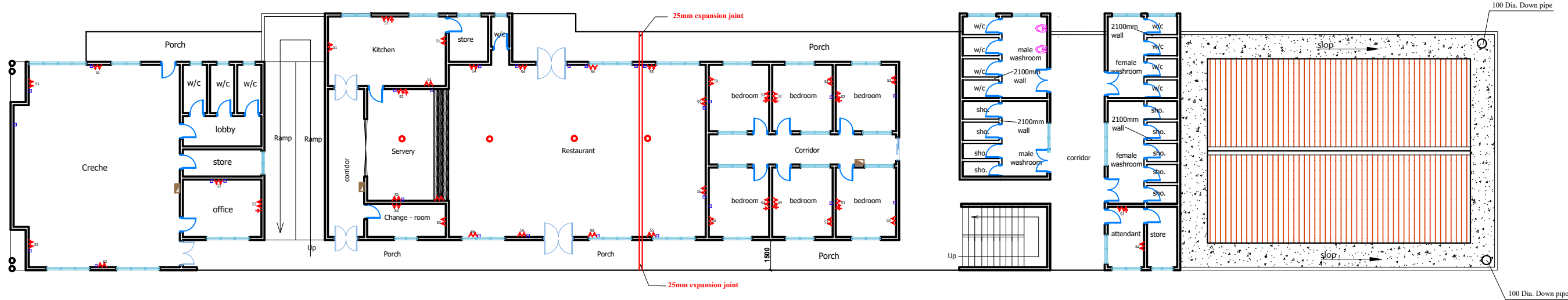
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DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E03



FIRST FLOOR PLAN

LEGEND (POWER LOAD)					
SYMBOL	DESCRIPTION	1	2	3	4
	100mm water meter socket	39	6.600	23.4	5.6 (14.04)
	100mm water meter	0			1.6 (4.04)
	TV socket	12	0	0	0
	Data socket	29	0	0	0
	Telephone socket	2	0	0	0
	Hand dryer	6	0	0	0
	Distribution board	3	0	0	0
	Panel board	0	0	0	0



CLIENT:

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DATE:

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ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE :

SCALE:

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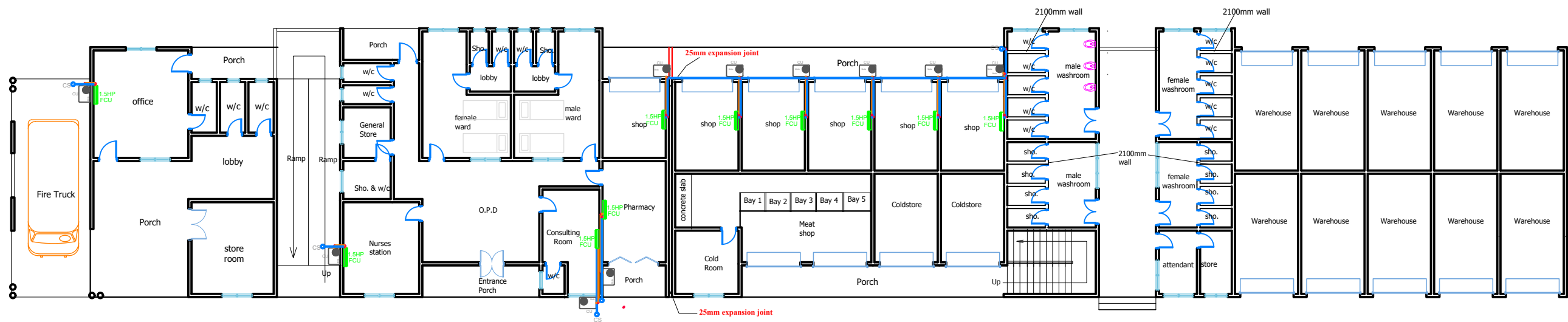
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E04

AIR CONDITION



LEGEND

H.V.A.C

	CONDENSATE DRAIN PIPE
	INSULATED REFRIGERANT PIPE
FCU	INDOOR FAN COIL UNIT
CU	OUTDOOR CONDENSING UNIT
CS	CONDENSATE SOAKAWAY
	H.V.A.C OUTDOOR UNIT
	H.V.A.C INDOOR UNIT

GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

MECHANICAL LAYOUT(H.V.A.C)

DATE:

PROJECT :

**PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



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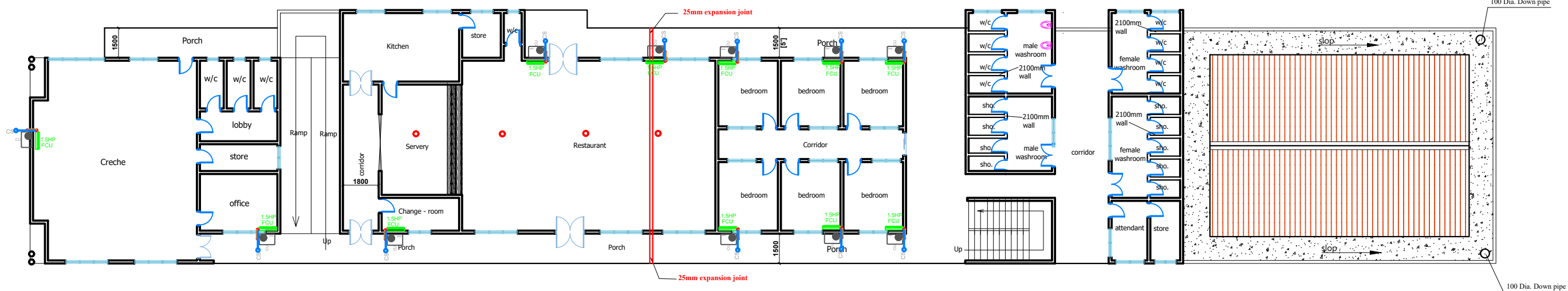
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DRG NO.:

E05



LEGEND	
H.V.A.C	
	CONDENSATE DRAIN PIPE
	INSULATED REFRIGERANT PIPE
	INDOOR FAN COIL UNIT
	OUTDOOR CONDENSING UNIT
	CONDENSATE SOAKAWAY
	H.V.A.C OUTDOOR UNIT
	H.V.A.C INDOOR UNIT

FIRST FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

MECHANICAL LAYOUT(H.V.A.C)

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

SCALE:

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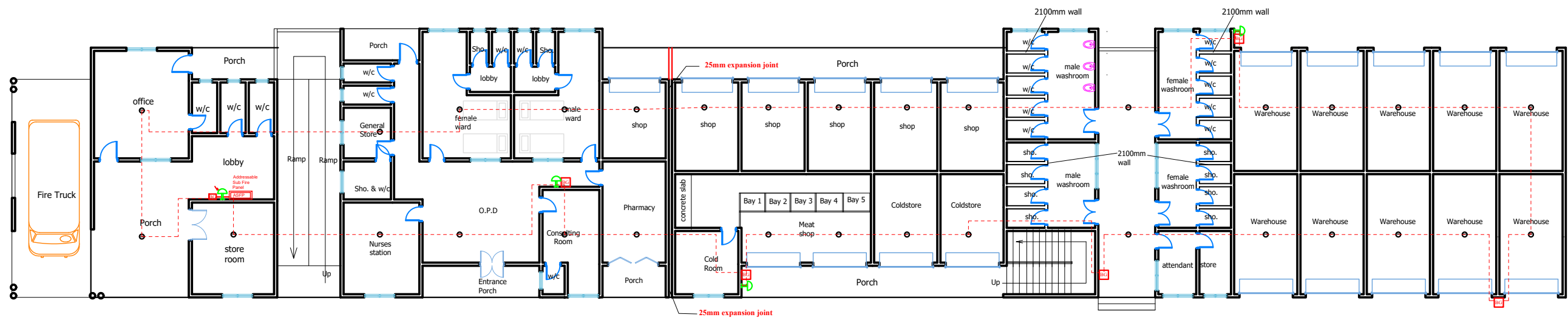
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DRG NO.:

E06

FIRE ALARM SYSTEM



LEGEND F.A.S

	Call point break glass
	Electronic sounder
	Photoelectric smoke detector
	FIRE ALARM PANEL

GROUND FLOOR PLAN



CLIENT:

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DRAWING
TITLE:

FIRE ALARM SYSTEM

DATE:

PROJECT : **PROPOSED 24-HOUR
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SCALE:

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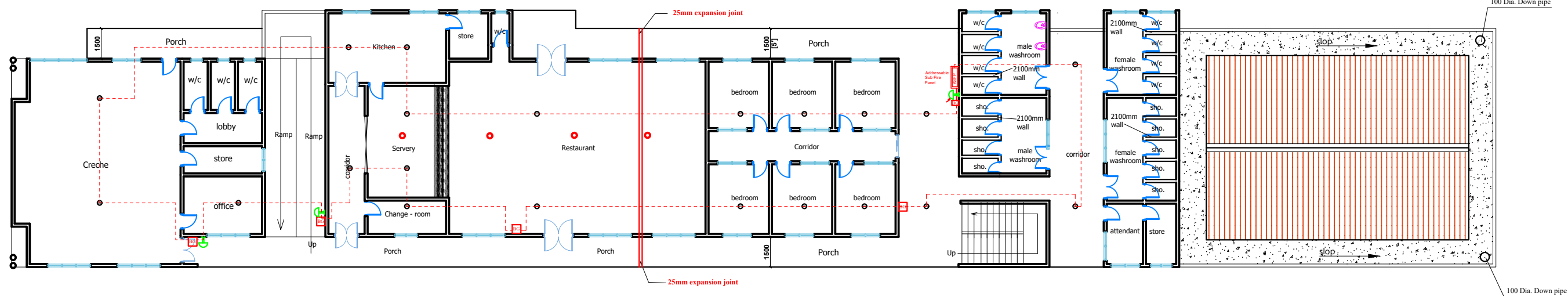
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E07



FIRST FLOOR PLAN

LEGEND	
F.A.S	
	Call point break glass
	Electronic sounder
	Photoelectric smoke detector
	FIRE ALARM PANEL



CLIENT:

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CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

FIRE ALARM SYSTEM

DATE:

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE :

SCALE:

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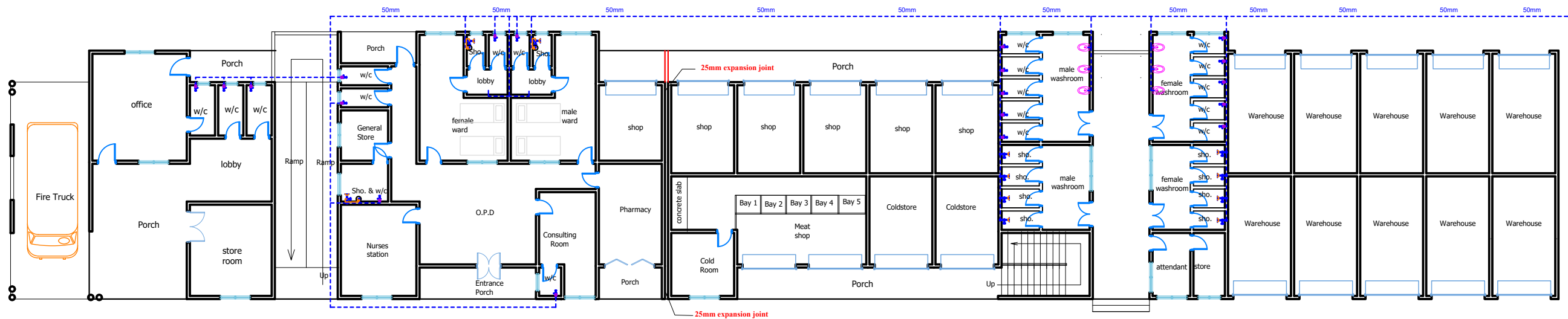
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DRG NO.:

E08

PLUMBING WORKS



LEGEND	
PLUMBING	
	Sink
	Toilet
	Shower
	Bathtub
	Bidet
	Floor drain
	Water supply line
	Waste line
	Vent line
	Expansion joint

GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

PLUMBING LAYOUT (CLEAN WATER SYSTEM)

DATE:

PROJECT :

**PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



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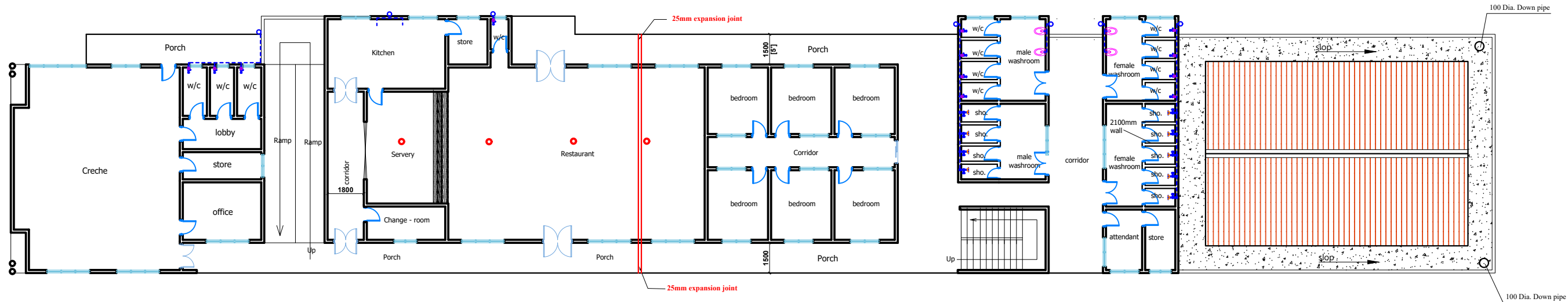
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DRG NO.:

E09



LEGEND	
PLUMBING	
	Sink
	Toilet
	Shower
	Washbasin
	Water Closet (WC)
	Water Closet (WC)
	Water Closet (WC)
	Water Closet (WC)
	Water Closet (WC)
	Water Closet (WC)

FIRST FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

PLUMBING LAYOUT (CLEAN WATER SYSTEM)

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

SCALE:

1 : 100

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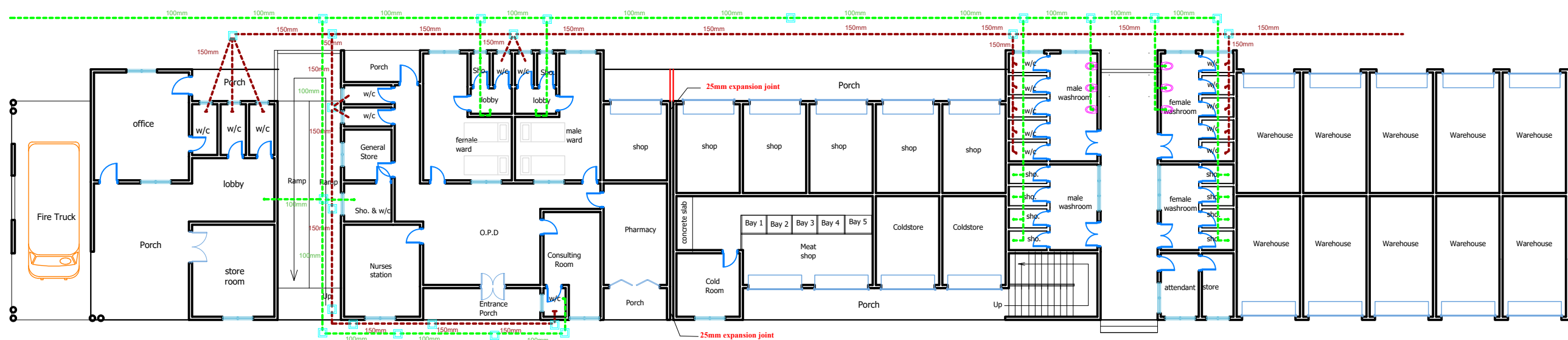
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DRG NO.:

E10



LEGEND PLUMBING	
	Water closet
	Sewer
	Waste
	Sink
	Shower
	Male washroom
	Female washroom
	Attendant store
	25mm sewer pipe (pvc)
	100mm waste water pipe (pvc)

GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

PLUMBING LAYOUT (WASTE & SEWAL SYSTEM)

DATE:

PROJECT :

**PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



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SCALE:

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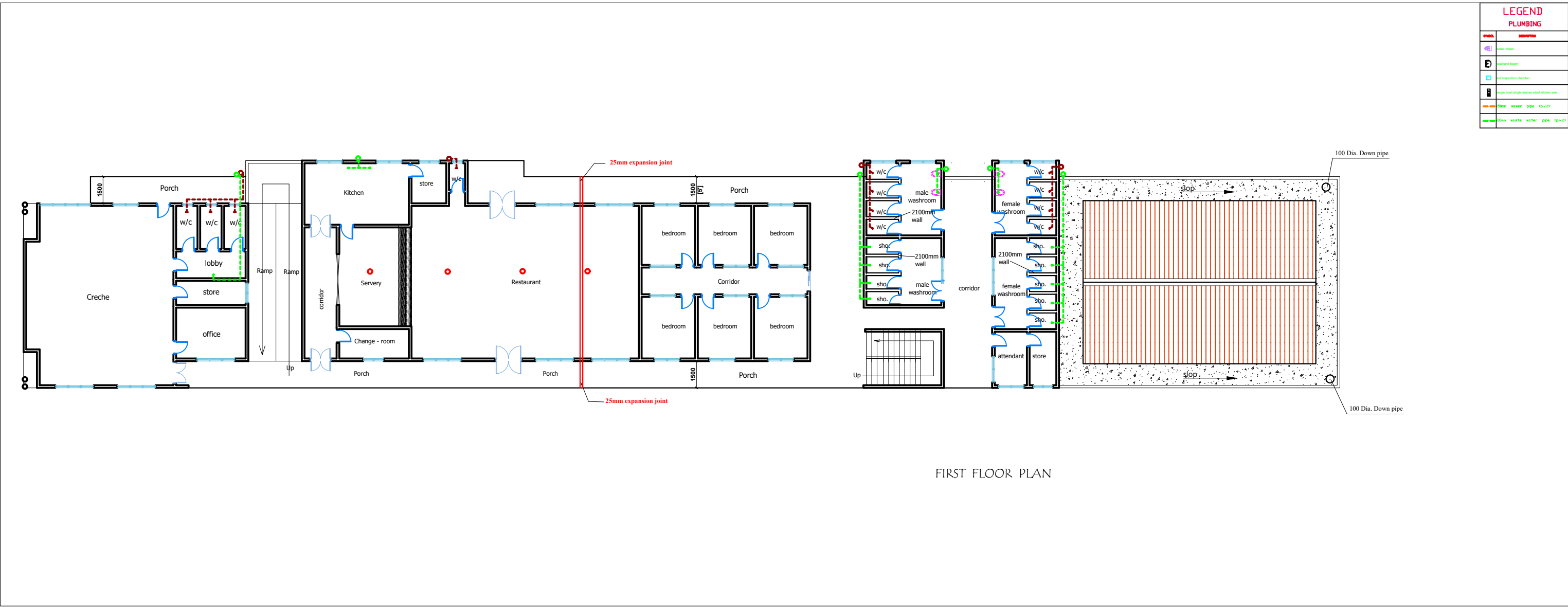
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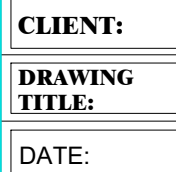
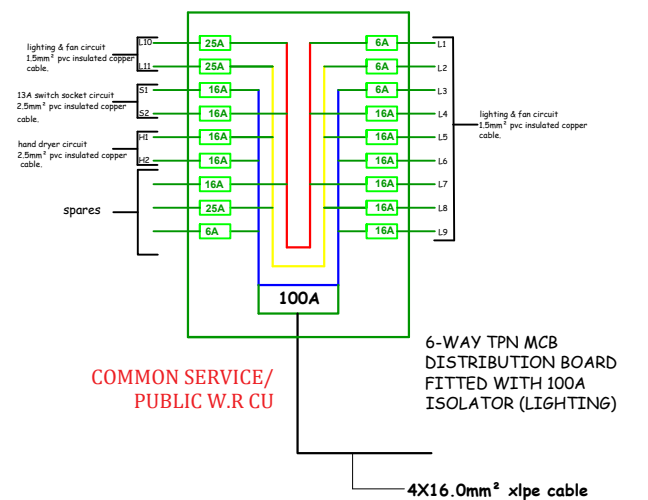
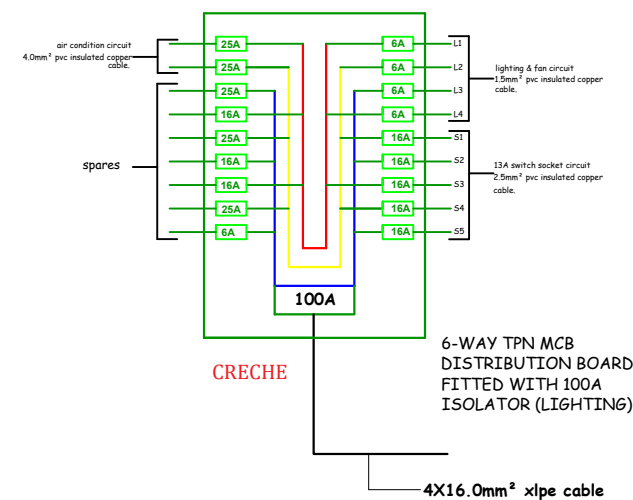
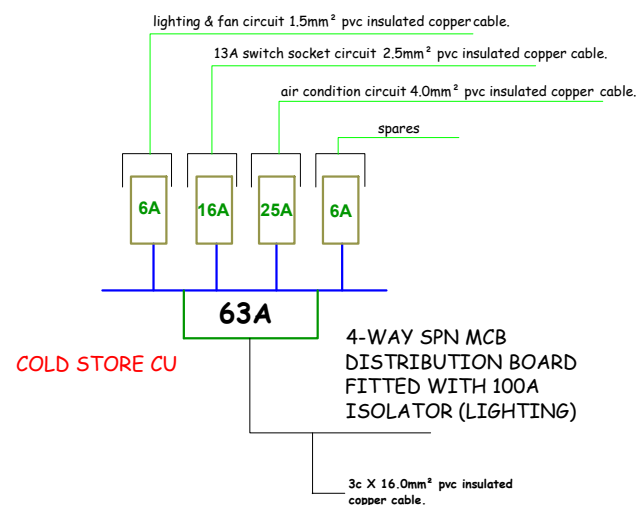
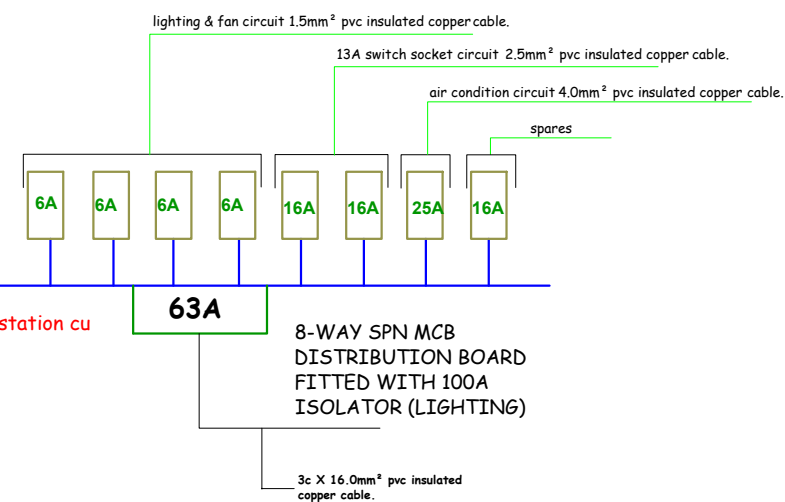
E11



LEGEND	
SYMBOL	DESCRIPTION
	water closet
	kitchen sink
	toilet
	shower
	25mm sewer pipe (pvc)
	25mm waste water pipe (pvc)

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	DRAWING TITLE:	PLUMBING LAYOUT (WASTE & SEWAL SYSTEM)		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:		NOTE :	DRAWN BY:	C. O. ABOARH & A. FRANK	

SCHEMATICS



ELECTRICAL CIRCUIT CONTROL UNIT



SCALE:

1 : 100

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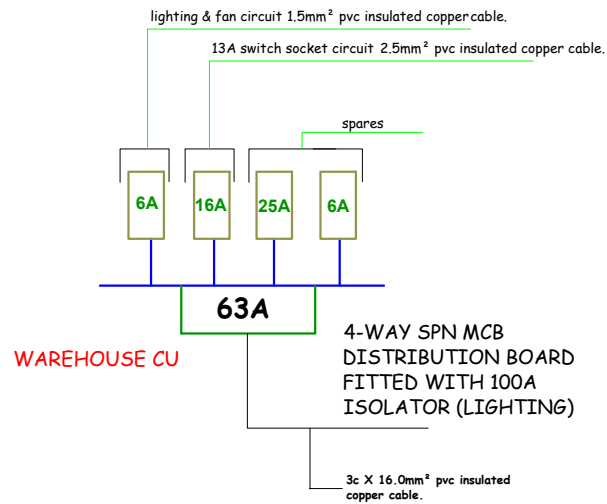
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DRG NO.:

E13



LEGEND

(POWER LOAD FOR GF & FF)

A	TOTAL ASSUMED LIGHTING LOAD(KV)					9.848
	2 x 13A switch socket outlet.	131	0.600	78.6	0.6	47.16
	30A DP air condition switch	21	2.700	56.7	0.8	45.36
	20-litre capacity water heater.	0	1.200	0	0.8	0
B	TOTAL ASSUMED POWER LOAD(KV)					92.52
	TOTAL ASSUMED LOAD(KV) A+B					102.4



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

ELECTRICAL CIRCUIT CONTROL UNIT

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
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NOTE :

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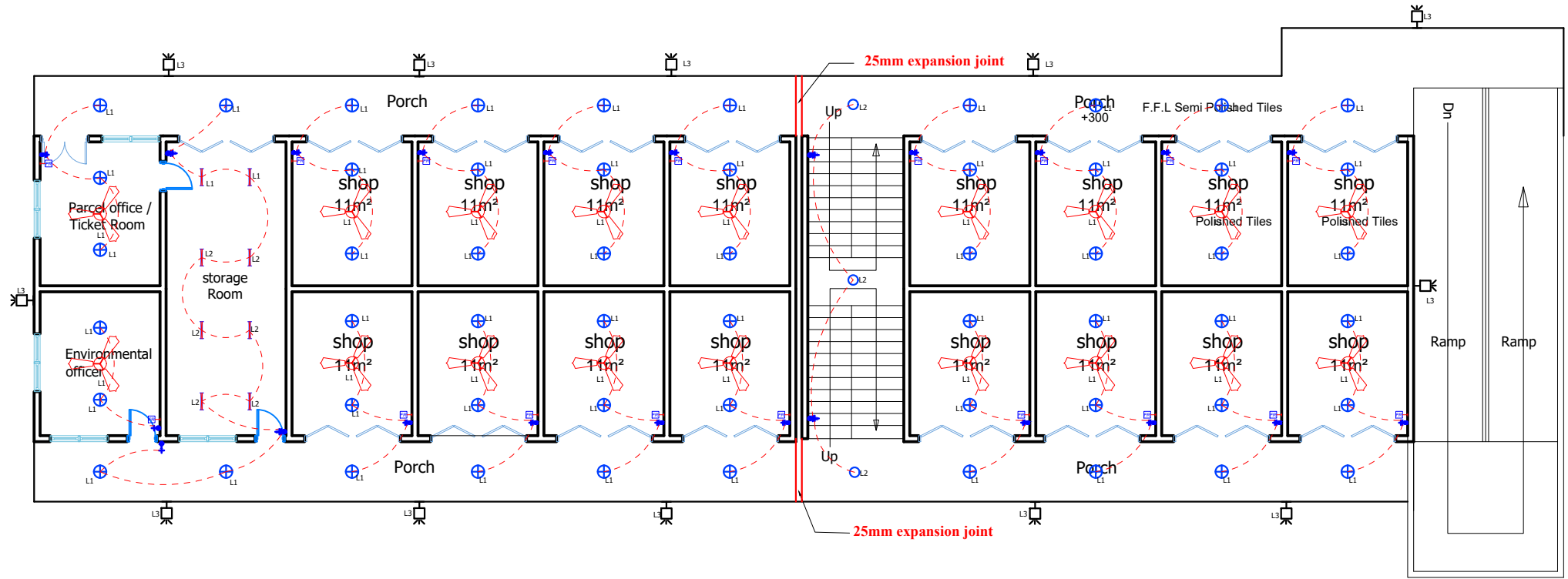
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DRG NO.:

E14

BLOCK B

LEGEND (LIGHTING LOAD)						
SYMBOL	DESCRIPTION	QTY	W	V	VA	W
	30W LED RECESSED DOWNLIGHTER or PHILIPS ROUND CEILING SPOT C/V POLYCARBONATE	56	0.012	0.672	0.8	0.5376
	30W LED RECESSED SQUARE CEILING DOWNLIGHT C/V POLYCARBONATE, DIFFUSER or PHILIPS	3	0.030	0.09	0.8	0.72
	1 x 25w cfl ceiling downlight fitting with glass shade	0	0.015	-	0.8	-
	2 x 9W cfl ceiling surface mounted with glass shade	0	0.018	-	0.8	-
	600mm x 600mm, 4x14W T5 fluorescent recessed with open diffuser	0	0.056	-	0.8	-
	20w LED STRIP LIGHTS WITH CHOKE	0	0.012	-	0.8	-
	30W RECESSED FANLIGHT	0	0.030	-	0.8	-
	1400mm sweep ceiling fan complete with regulator	18	0.100	1.8	0.8	1.44
	Submersed LED/DC/AC external wall bottom fitting complete with polycarbonate glass shade	11	0.050	0.55	0.8	0.44
	30W LED ENERGY SAVING GLOBE LIGHT FITTING c/o STRAIGHT LAMP HOLDER or PHILIPS	0	0.018	-	0.8	-
	1 x 20w T5 bottom weatherproof fluorescent fitting	8	0.028	0.224	0.8	0.1792
	6A 3P water heater switch					
	1-gang, 1-way 6A switch					
	2-gang, 1-way 6A switch					
	3-gang, 1-way 6A switch					
	1-gang, 2-way 6A switch					
	2-gang, 2-way 6A switch					
	Intermediate switch 6A switch					
	PHOTOCELL					
A	TOTAL ASSUMED LIGHTING LOAD(W)					3.3168



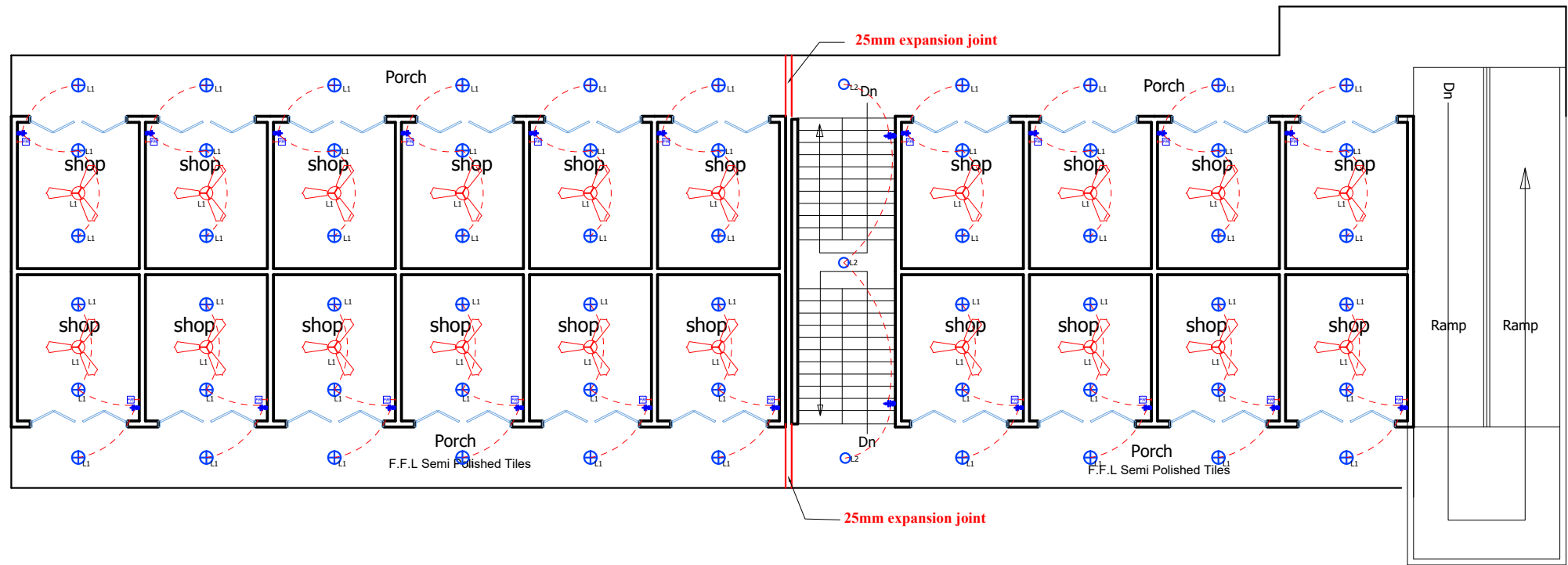
GROUND FLOOR PLAN



ECO- PLANNERS
& ENGINEERING
CONSULT

CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:	1 : 100	DRG NO.: E01
DRAWING TITLE:	ELECTRICAL LAYOUT (LIGHTING SYSTEM)		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:	OCTOBER, 2025		DRAWN BY:	C. O. ABOARH & A. FRANK	

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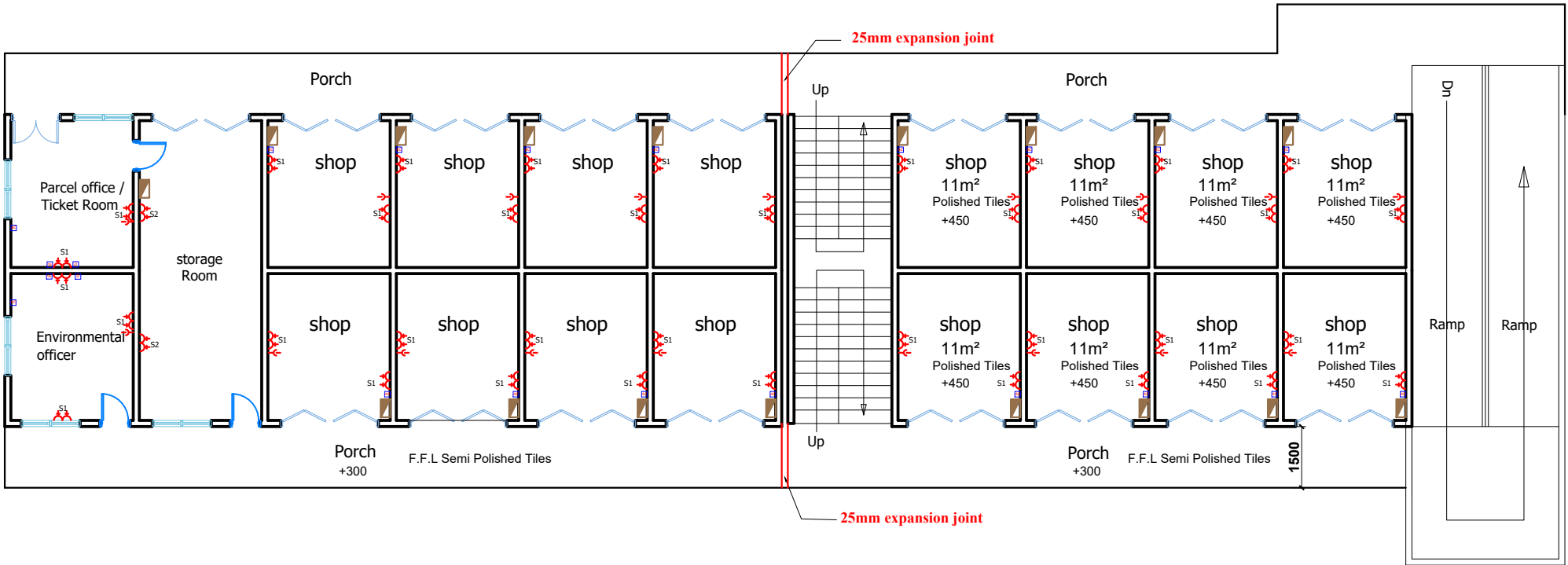


FIRST FLOOR PLAN

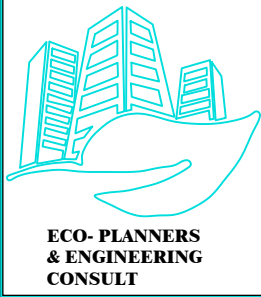
LEGEND
(LIGHTING LOAD)

SYMBOL	DESCRIPTION	QTY	UNIT	WATT	VA	WATT	VA
⊕	30W LED RECURVATIVE DIFFUSER or PHILIPS ROUND CEILING SPOT C/V POLYCARBONATE	60		0.012	0.72	0.8	0.576
○	30W LED RECURVATIVE SQUARE CEILING LUMINAIR C/V POLYCARBONATE DIFFUSER or PHILIPS	3		0.030	0.09	0.8	0.072
⊕	1 x 35w cfl ceiling bottom light fitting with glass shade	0		0.015	-	0.8	-
⊕	2 x 35w cfl ceiling surface mounted with glass shade	0		0.018	-	0.8	-
⊕	600mm x 600mm, 4x14W T5 fluorescent recessed with open fixture	0		0.056	-	0.8	-
⊕	30w LED STRIP LIGHTS WITH CHOKE	0		0.012	-	0.8	-
⊕	30W RECURVATIVE FANLIGHT	0		0.030	-	0.8	-
⊕	1400mm sweep ceiling fan complete with regulator	20		0.100	2	0.8	1.6
⊕	Bulbhead LED/DCVCL external wall bottom fitting complete with polycarbonate glass shade	0		0.050	-	0.8	-
⊕	30W LED ENERGY SAVING GLOBE LIGHT FITTING C/V STRAIGHT LAMP HOLDER or PHILIPS	0		0.018	-	0.8	-
⊕	1 x 20w T5 bottom weatherproof fluorescent fitting	0		0.028	-	0.8	-
⊕	6A 3P water heater switch						
⊕	1-gang, 1-way 6A switch						
⊕	2-gang, 1-way 6A switch						
⊕	3-gang, 1-way 6A switch						
⊕	1-gang, 2-way 6A switch						
⊕	2-gang, 2-way 6A switch						
⊕	Intermediate switch 6A switch						
⊕	PHOTOCELL						
A	TOTAL ASSUMED LIGHTING LOAD(WVA)					3.848	

LEGEND (POWER LOAD)						
SYMBOL	DESCRIPTION	QUANTITY	POWER (W)	TOTAL POWER (W)	POWER (VA)	TOTAL POWER (VA)
	2 x 10A switch socket outlet	39	0.600	23.4	0.6	14.04
	20A 17W HCB	0			1L	18.23A
	TV socket	12	0	0	0	0
	Data socket	29	0	0	0	0
	Telephone socket	2	0	0	0	0
	Hand dryer	6	0	0	0	0
	Distribution board	3	0	0	0	0
	Panel board	0	0	0	0	0

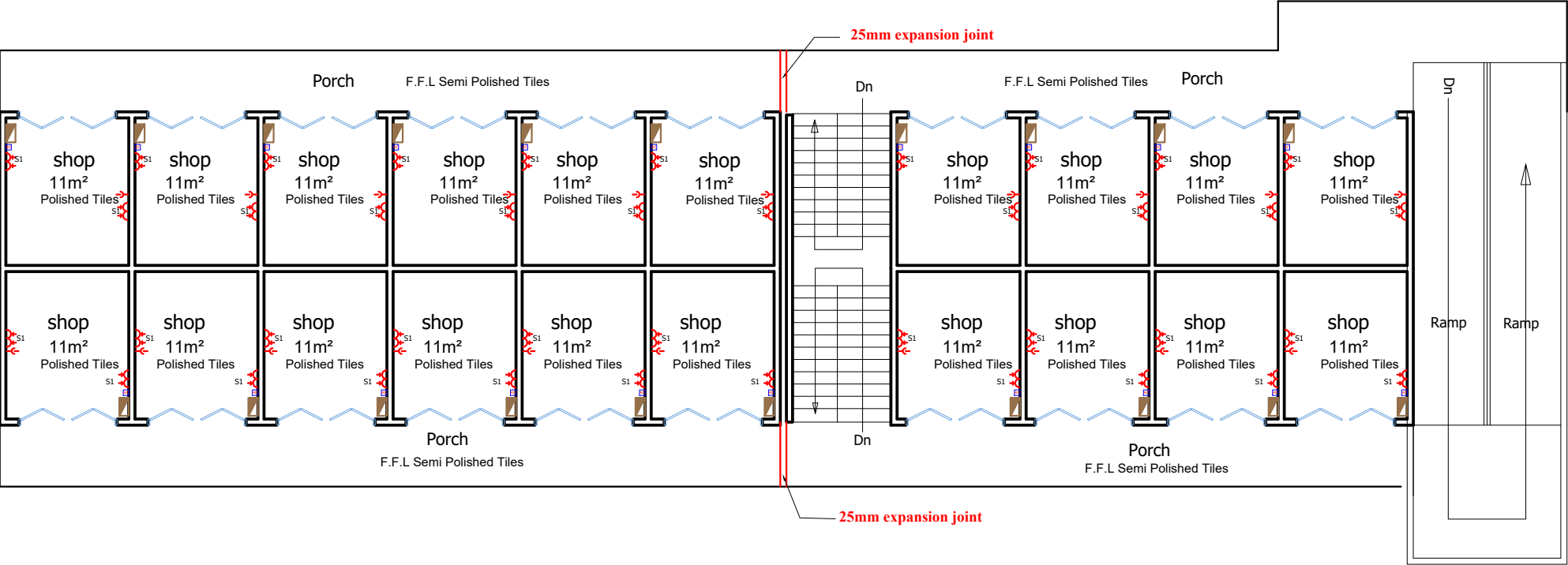


GROUND FLOOR PLAN

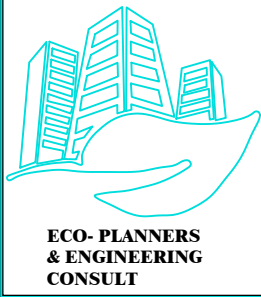


CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:		1 : 100	DRG NO.: E03
	DRAWING TITLE:			DESIGNED BY:		ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:			DRAWN BY:		C. O. ABOARH & A. FRANK	

LEGEND (POWER LOAD)						
SYMBOL	DESCRIPTION	QUANTITY	POWER (W)	TOTAL POWER (W)	LOAD FACTOR	LOAD FACTOR (VA)
	2 x 10A switch socket outlet	40	0.600	24	0.6	14.4
	20A 17W HCB	0			IL	18.23A
	TV socket	12	0	0	0	0
	Data socket	29	0	0	0	0
	Telephone socket	2	0	0	0	0
	Hand dryer	6	0	0	0	0
	Distribution board	3	0	0	0	0
	Panel board	0	0	0	0	0



FIRST FLOOR PLAN



CLIENT:

DRAWING
TITLE:

DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

ELECTRICAL LAYOUT (POWER SYSTEM)

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**

NOTE :



SCALE:

DESIGNED BY:

DRAWN BY:

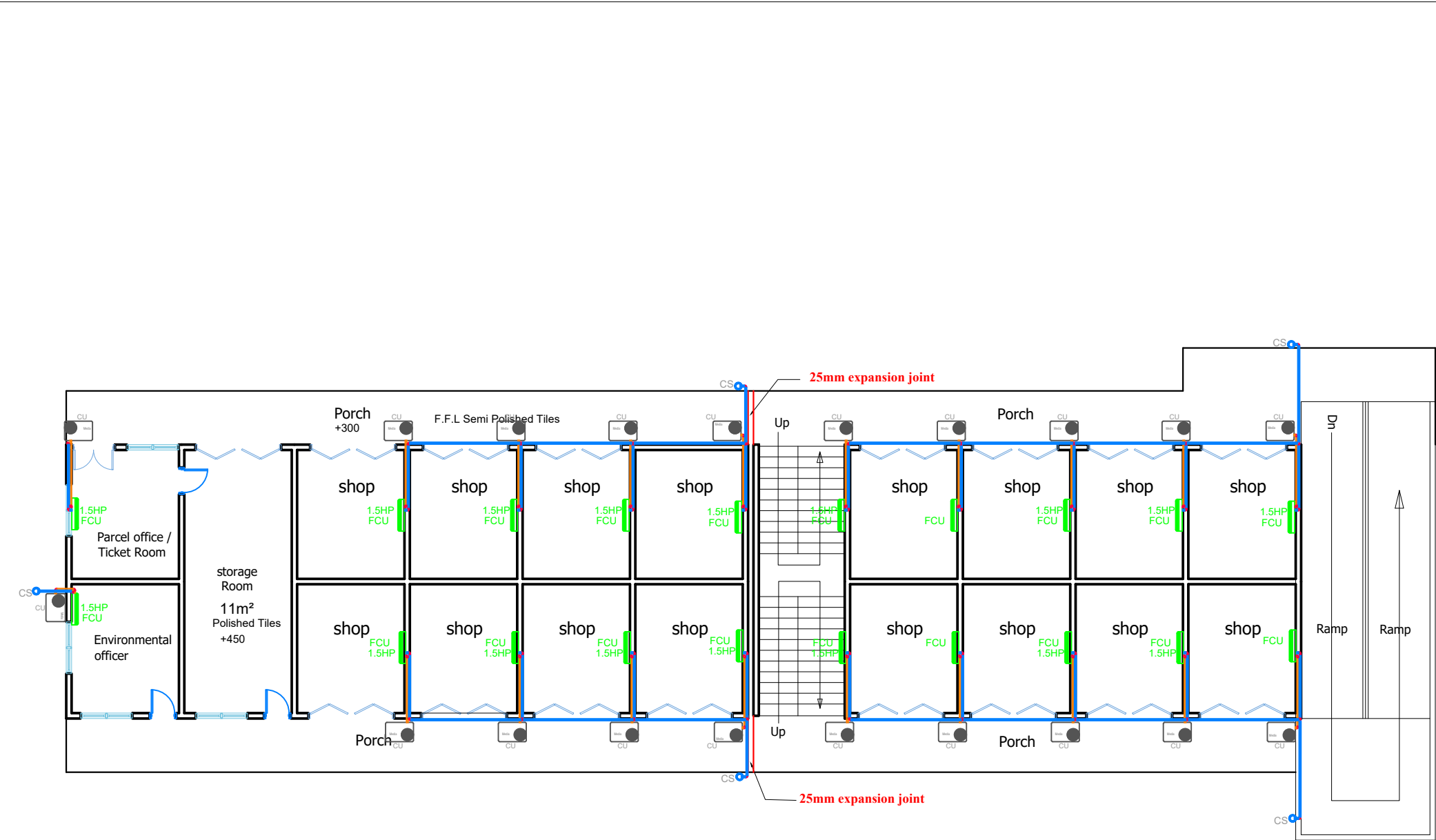
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**ECO - PLANNERS &
ENGINEERING CONSULT**

C. O. ABOARH & A. FRANK

DRG NO.:

E04

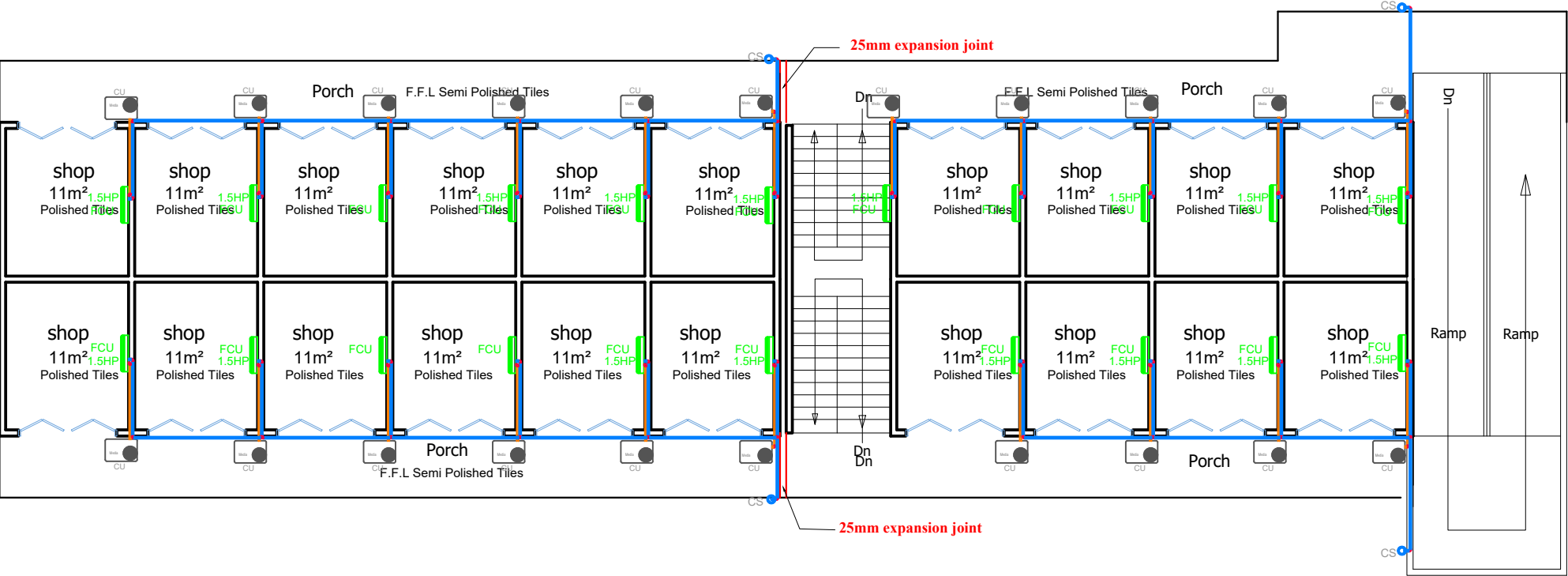


LEGEND	
H.V.A.C	
	CONDENSATE DRAIN PIPE
	INSULATED REFRIGERANT PIPE
FCU	INDOOR FAN COIL UNIT
CU	OUTDOOR CONDENSING UNIT
CS	CONDENSATE SOAKAWAY
	H.V.A.C OUTDOOR UNIT
	H.V.A.C INDOOR UNIT

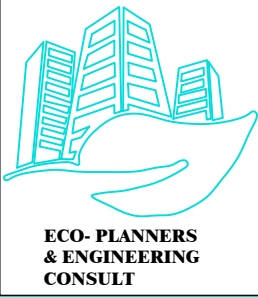
GROUND FLOOR PLAN

 ECO- PLANNERS & ENGINEERING CONSULT	CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: A05
	DRAWING TITLE:	MECHANICAL LAYOUT(H.V.A.C)			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:		NOTE :	DRAWN BY:	C. O. ABOARH & A. FRANK		

LEGEND	
H.V.A.C	
	CONDENSATE DRAIN PIPE
	INSULATED REFRIGERANT PIPE
FCU	INDOOR FAN COIL UNIT
CU	OUTDOOR CONDENSING UNIT
CS	CONDENSATE SOAKAWAY
	H.V.A.C OUTDOOR UNIT
	H.V.A.C INDOOR UNIT



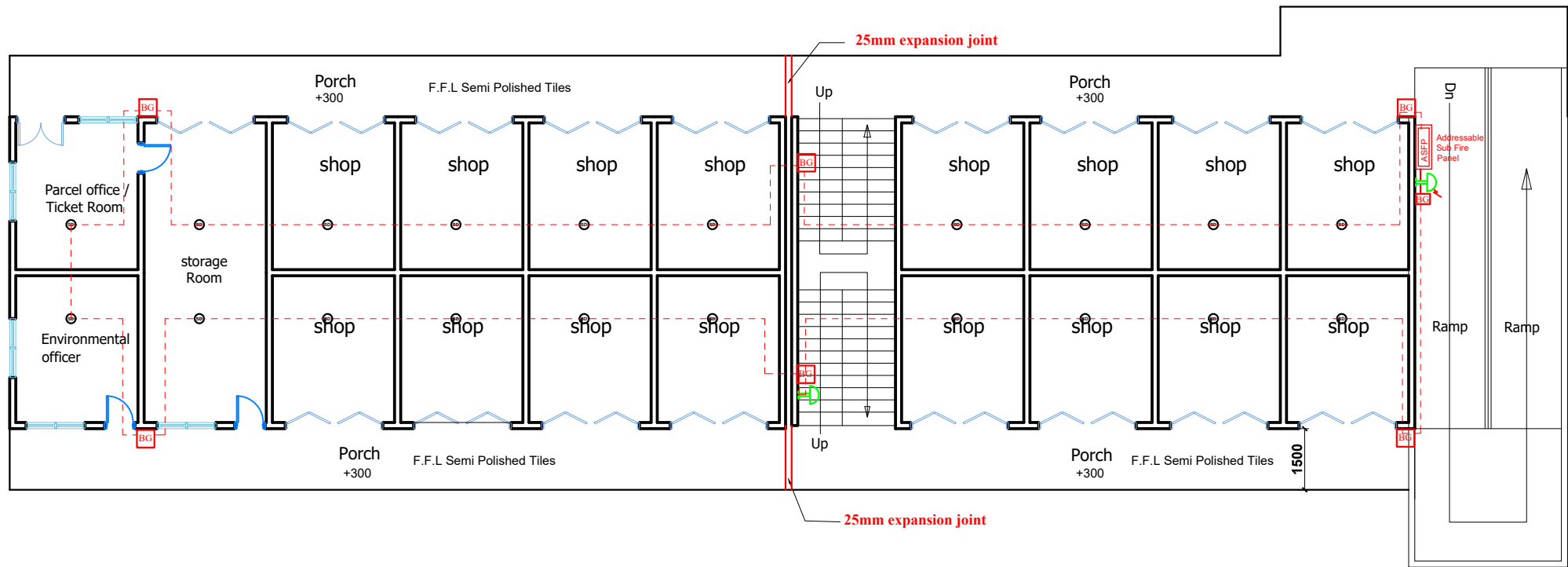
FIRST FLOOR PLAN



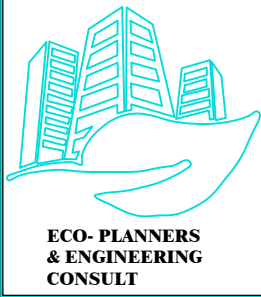
CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: A06
	DRAWING TITLE:			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:			DRAWN BY:	C. O. ABOARH & A. FRANK	

LEGEND
F.A.S

BG	Call point break glass
ES	Electronic sounder
SD	Photoelectric smoke detector
AFP	FIRE ALARM PANEL



GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

FIRE ALARM SYSTEM

DATE:

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



SCALE:

1 : 100

DESIGNED BY:

**ECO - PLANNERS &
ENGINEERING CONSULT**

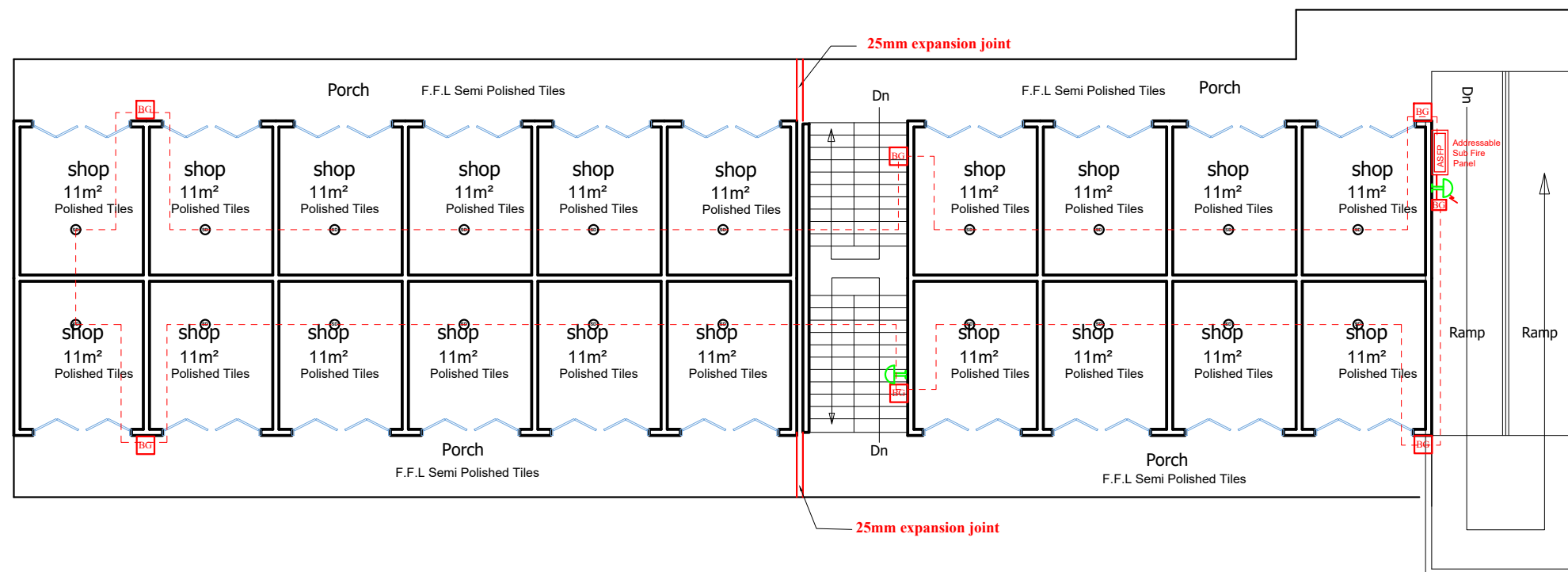
DRAWN BY:

C. O. ABOARH & A. FRANK

NOTE :

DRG NO.:

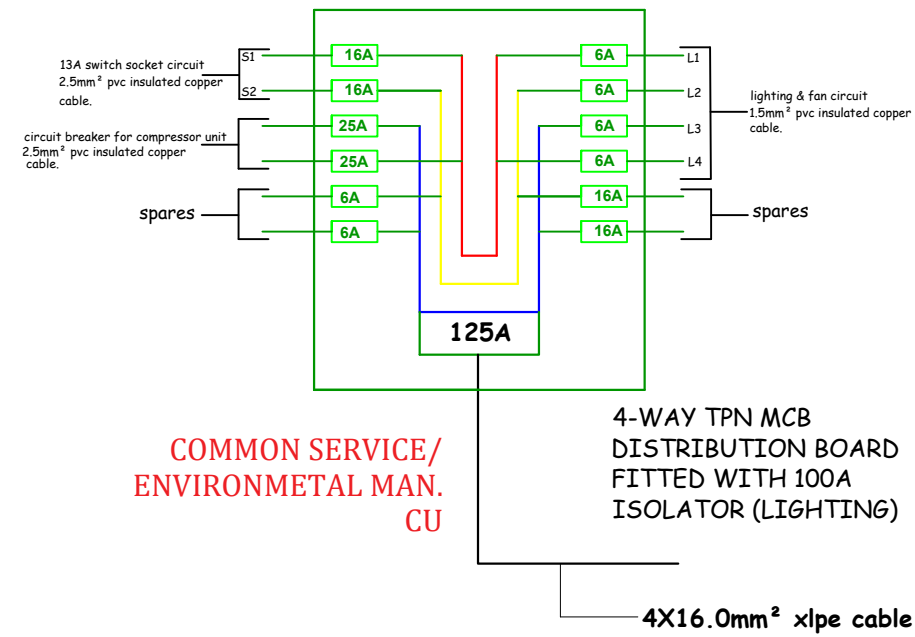
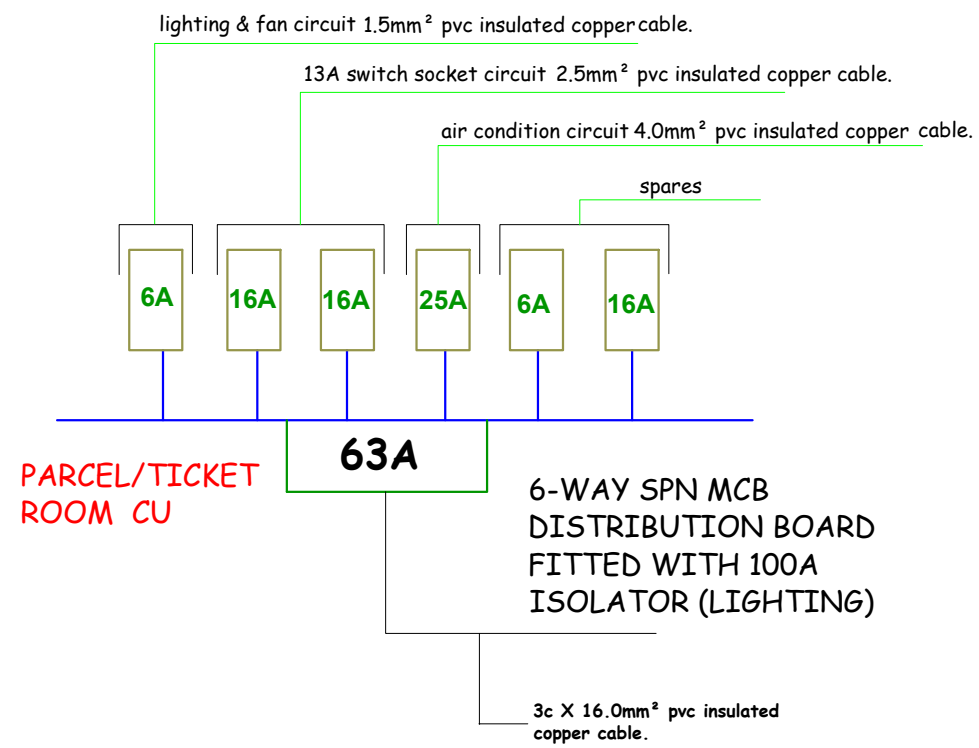
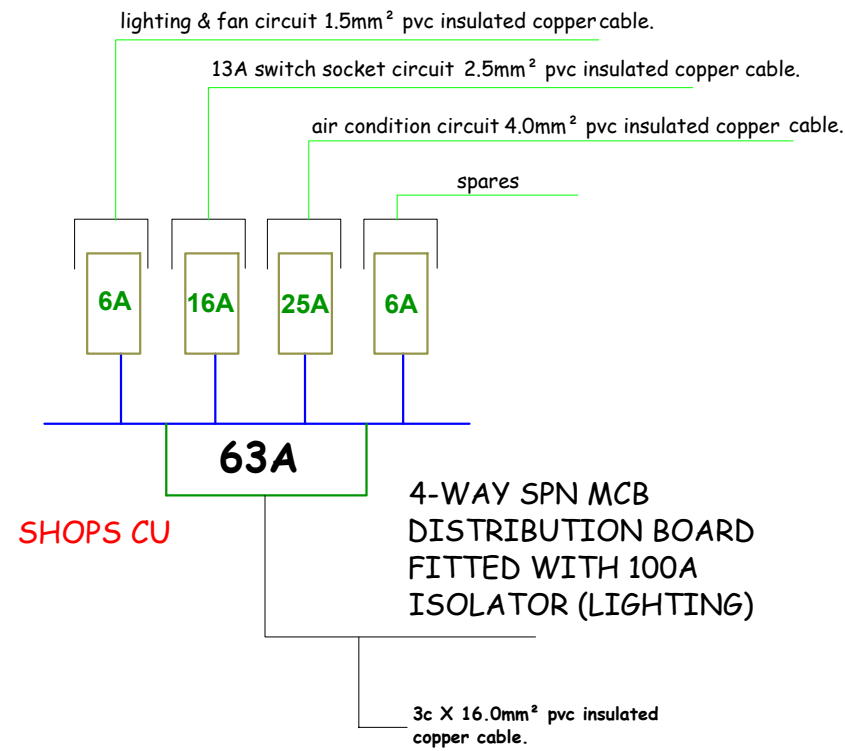
A07



LEGEND F.A.S	
	Call point break glass
	Electronic sounder
	Photoelectric smoke detector
	FIRE ALARM PANEL



CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: A08
DRAWING TITLE:	FIRE ALARM SYSTEM			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:		<u>NOTE :</u>		DRAWN BY:	C. O. ABOARH & A. FRANK	



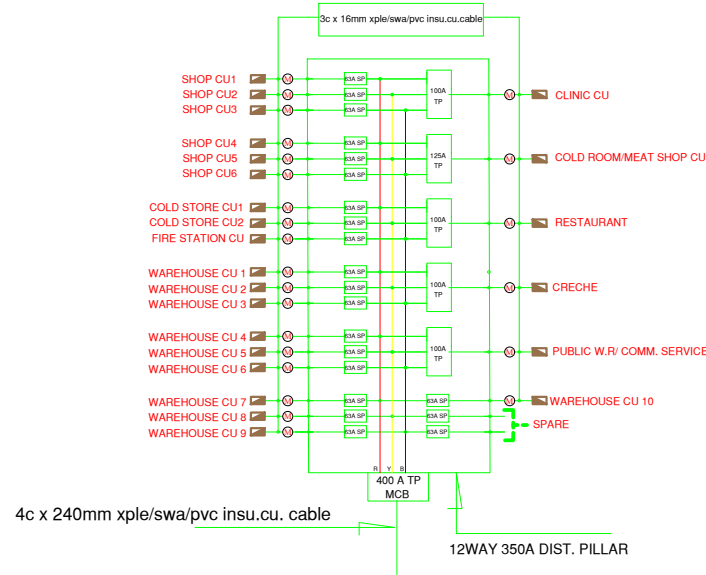
GROUND FLOOR PLAN

	CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: E09
	DRAWING TITLE:	ELECTRICAL CIRCUIT CONTROL UNIT			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:				DRAWN BY:	C. O. ABOARH & A. FRANK	

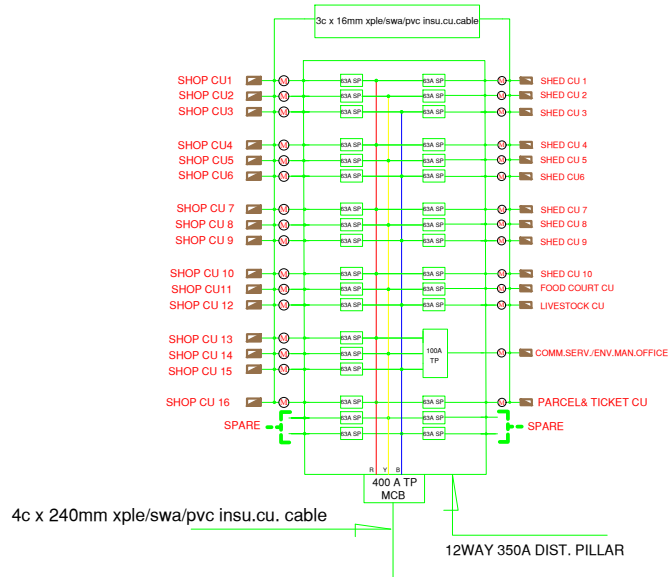
LEGEND (POWER LOAD FOR GF & FF)						
A	TOTAL ASSUMED LIGHTING LOAD(KW)					7.1648
	2 x 13A switch socket outlet.	79	0.600	47.4	0.6	28.44
	32A DP air condition switch	38	2.700	102.6	0.8	82.08
	20-litre capacity water heater.	0	1.200	0	0.8	0
B	TOTAL ASSUMED POWER LOAD(KW)					110.52
	TOTAL ASSUMED LOAD(KW) A+B					117.7

FIRST FLOOR PLAN

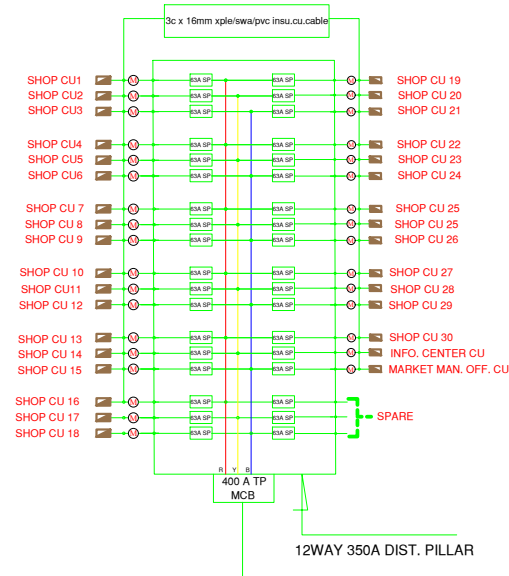
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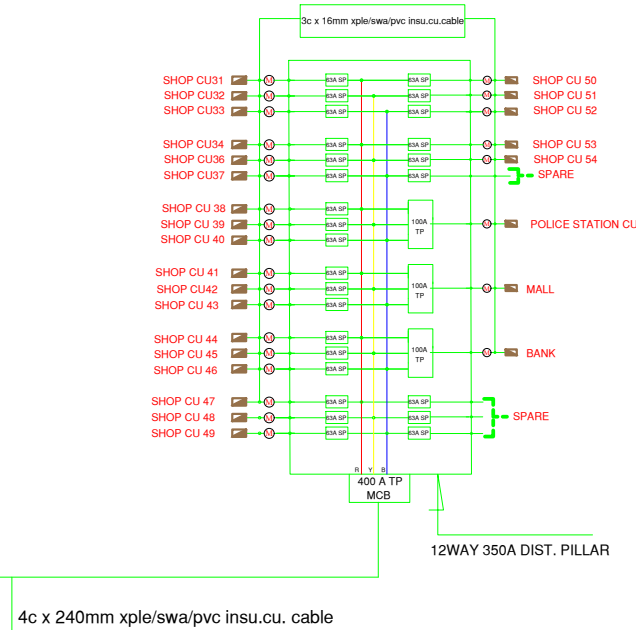
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3



4



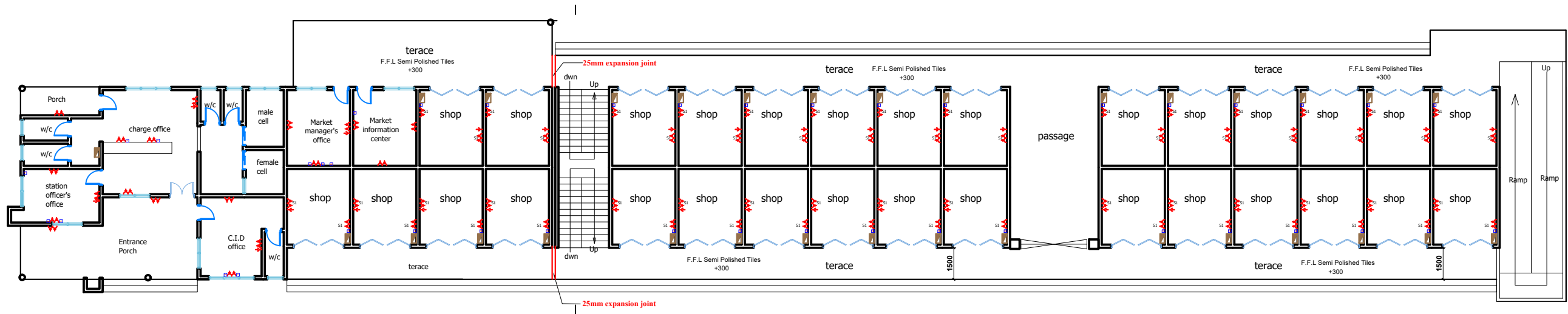
CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT :	PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE	SCALE:	1 : 100	DRG NO.:	E11
DRAWING TITLE:	ELECTRICAL CIRCUIT CONTROL UNIT			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT		
DATE:		NOTE :		DRAWN BY:	C. O. ABOARH & A. FRANK		

BLOCK C



E01





LEGEND (POWER LOAD)					
SYMBOL	DESCRIPTION	1	2	3	4
	1 x 1000 watt water heater	77	6.600	64.2	6.6
	1000 watt	0			1.1
	TV set	12	0	0	0
	Radio set	29	0	0	0
	Telephone set	2	0	0	0
	Hand dryer	6	0	0	0
	Distribution board	3	0	0	0
	Panel board	0	0	0	0

GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

ELECTRICAL LAYOUT (POWER SYSTEM)

DATE:

OCTOBER, 2025

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR
" +233 242 316 175" OR " +233 271 010 146") ECO PLANNERS &
ENGINEERING CONSULT

SCALE:

1 : 100

DESIGNED BY:

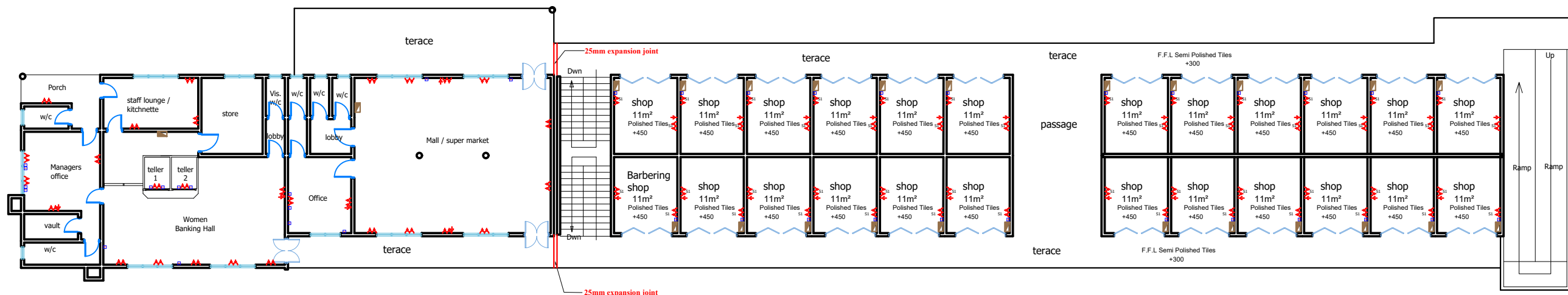
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ENGINEERING CONSULT

DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E03



LEGEND (POWER LOAD)					
SYMBOL	DESCRIPTION	W	V	A	VA
	1 x 1000 watt water heater	77	6.600	6.6	6.6 67.72
	100 W light	0	0	0	0 0.00
	TV stand	12	0	0	0 0
	Bed stand	29	0	0	0 0
	Telephone stand	2	0	0	0 0
	Hand dryer	6	0	0	0 0
	Distribution board	3	0	0	0 0
	Panel board	0	0	0	0 0



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

ELECTRICAL LAYOUT (POWER SYSTEM)

DATE:

OCTOBER, 2025

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR
" +233 242 316 175" OR " +233 271 010 146") ECO PLANNERS &
ENGINEERING CONSULT

SCALE:

1 : 100

DESIGNED BY:

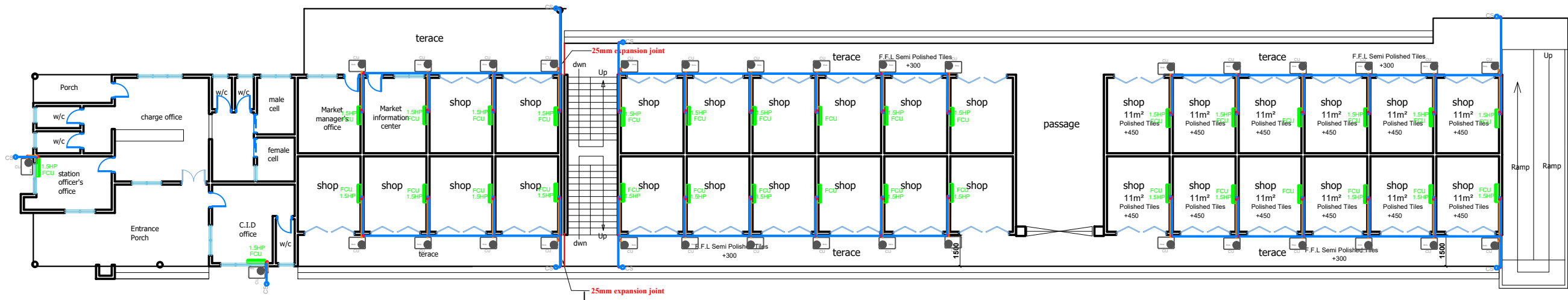
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DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E04



GROUND FLOOR PLAN

LEGEND
H.V.A.C

	CONDENSATE DRAIN PIPE
	INSULATED REFRIGERANT PIPE
FCU	INDOOR FAN COIL UNIT
CU	OUTDOOR CONDENSING UNIT
CS	CONDENSATE SOAKAWAY
	H.V.A.C OUTDOOR UNIT
	H.V.A.C INDOOR UNIT



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

MECHANICAL LAYOUT(H.V.A.C)

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

SCALE:

1 : 100

DESIGNED BY:

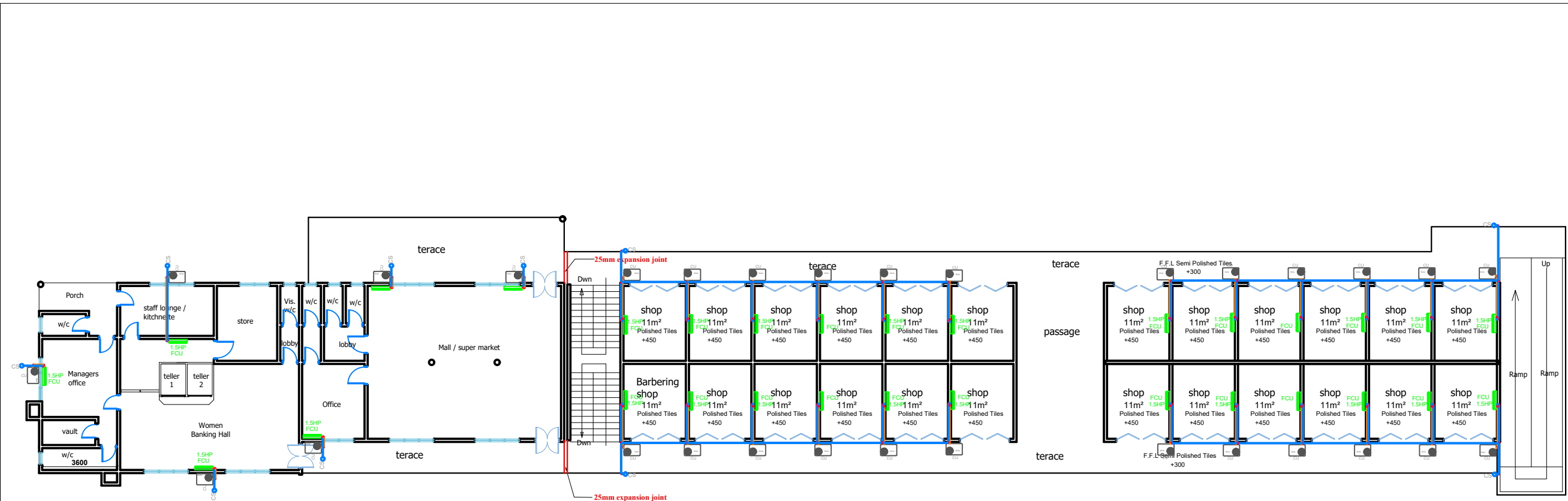
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C. O. ABOARH & A. FRANK

DRG NO.:

E05



LEGEND H.V.A.C

	CONDENSATE DRAIN PIPE
	INSULATED REFRIGERANT PIPE
	INDOOR FAN COIL UNIT
	OUTDOOR CONDENSING UNIT
	CONDENSATE SOAKAWAY
	H.V.A.C OUTDOOR UNIT
	H.V.A.C INDOOR UNIT



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

MECHANICAL LAYOUT(H.V.A.C)

DATE:

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE :

SCALE:

1 : 100

DESIGNED BY:

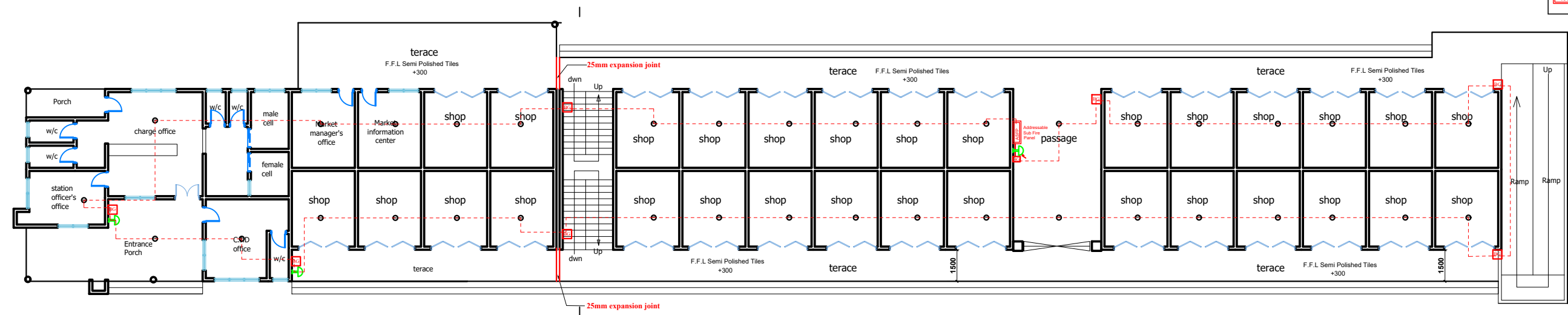
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DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E06



LEGEND	
F.A.S	
	Call point break glass
	Electronic sounder
	Photoelectric smoke detector
	FIRE ALARM PANEL

GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

FIRE ALARM SYSTEM

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

SCALE:

1 : 100

DESIGNED BY:

ECO - PLANNERS &
ENGINEERING CONSULT

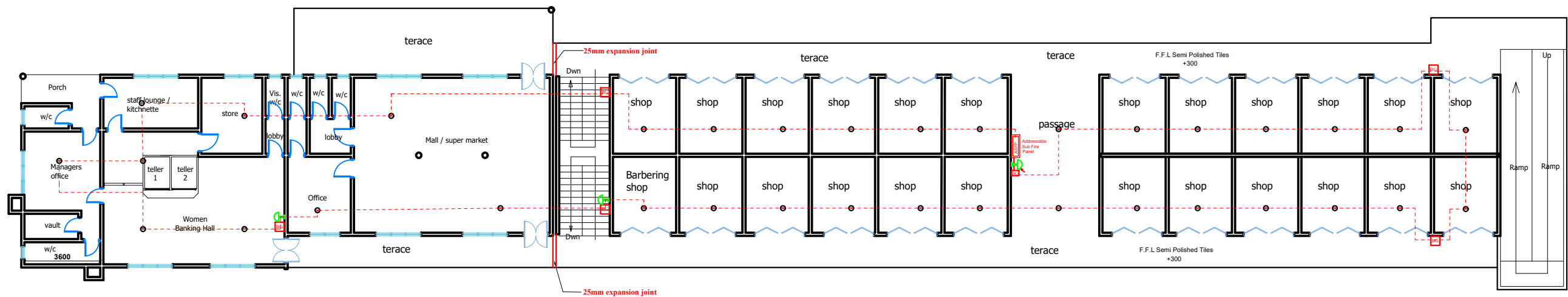
DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E07

LEGEND	
F.A.S	
	Call point break glass
	Electronic sounder
	Photoelectric smoke detector
	FIRE ALARM PANEL



CLIENT:
DRAWING TITLE:
DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

FIRE ALARM SYSTEM

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**

NOTE :



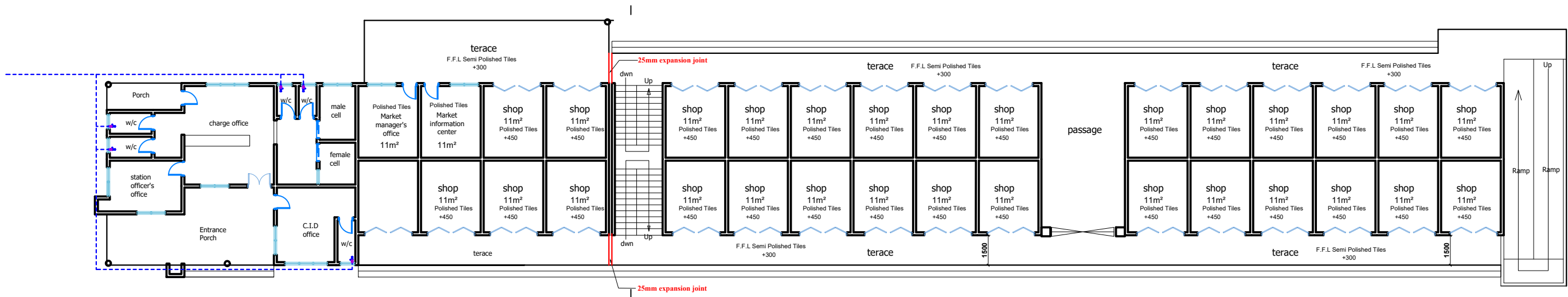
SCALE:
DESIGNED BY:
DRAWN BY:

1 : 100
**ECO - PLANNERS &
ENGINEERING CONSULT**
C. O. ABOARH & A. FRANK

DRG NO.:
E08

LEGEND
PLUMBING

	Water supply pipe
	Waste water pipe
	Vent pipe
	Floor drain
	Sink
	Toilet
	Shower
	Bathtub
	Water meter
	Water valve
	Water tap
	Water pump
	Water tank
	Water storage tank
	Water storage tank with pump
	Water storage tank with pump and vent
	Water storage tank with pump and vent and water meter



GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

PLUMBING LAYOUT (CLEAN WATER SYSTEM)

DATE:

PROJECT :

**PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE :

SCALE:

1 : 100

DESIGNED BY:

**ECO - PLANNERS &
ENGINEERING CONSULT**

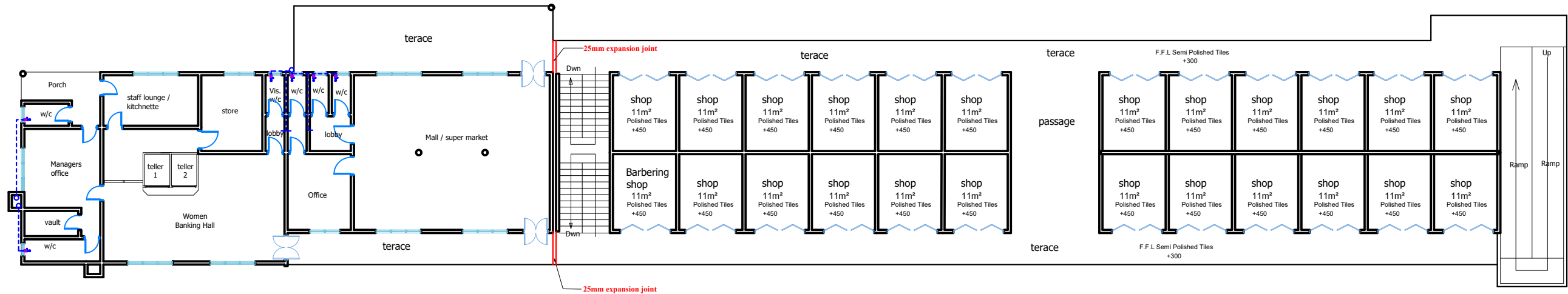
DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E09

LEGEND	
PLUMBING	
	Cold Water Supply
	Hot Water Supply
	Drainage
	Vent
	Floor Drain
	Water Meter
	Stop Valve
	Expansion Joint
	Terrace Drain
	Ramp



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

PLUMBING LAYOUT (CLEAN WATER SYSTEM)

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

SCALE:

1 : 100

DESIGNED BY:

ECO - PLANNERS &
ENGINEERING CONSULT

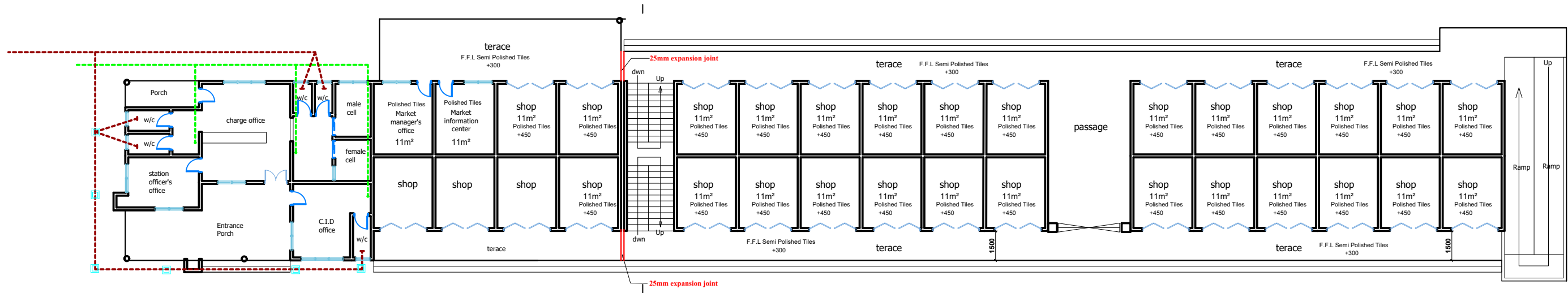
DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

E10

LEGEND PLUMBING	
	water closet
	sewer stack
	sewer inspection chamber
	sewer line (400mm dia)
	water line (400mm dia)
	25mm sewer pipe (400mm dia)
	25mm water pipe (400mm dia)



GROUND FLOOR PLAN



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

PLUMBING LAYOUT (WASTE & SEWAL SYSTEM)

DATE:

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

SCALE:

1 : 100

DESIGNED BY:

ECO - PLANNERS &
ENGINEERING CONSULT

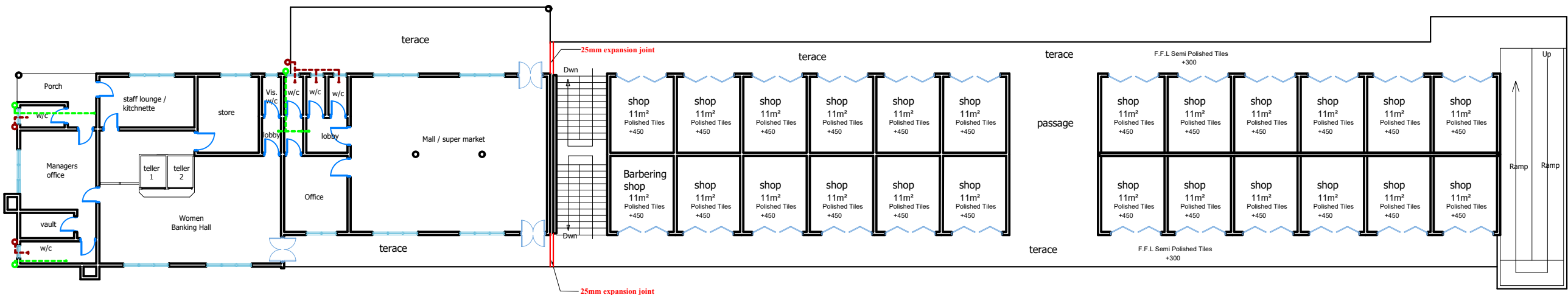
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C. O. ABOARH & A. FRANK

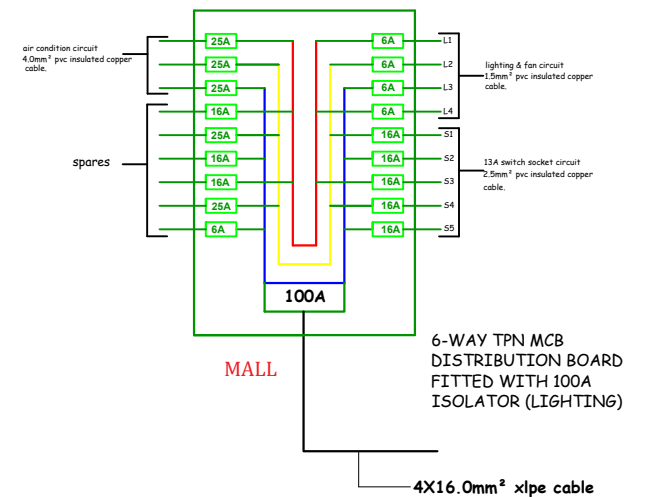
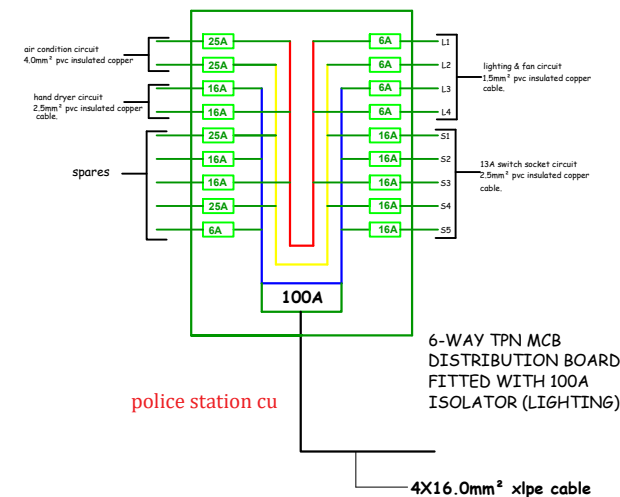
DRG NO.:

E11

LEGEND	
SYMBOL	DESCRIPTION
	water closet
	sewer stack
	sewer inspection chamber
	sewer pipe (pvc)
	water pipe (pvc)



CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:		DRG NO.: E12	
DRAWING TITLE:	PLUMBING LAYOUT (WASTE & SEWAL SYSTEM)		DESIGNED BY:			ECO - PLANNERS & ENGINEERING CONSULT
DATE:			DRAWN BY:			
		NOTE :				



LEGEND						
(POWER LOAD FOR GF & FF)						
A	TOTAL ASSUMED LIGHTING LOAD(KVA)					9.0816
	2 x 13A switch socket outlet	154	0.600	92.4	0.6	55.44
	25A 2P air condition switch	64	2.700	172.8	0.8	138.24
	25-litre capacity water heater.	0	1.200	0	0.8	0
B	TOTAL ASSUMED POWER LOAD(KVA)					193.68
	TOTAL ASSUMED LOAD(KVA) A+B					202.8

GROUND FLOOR PLAN



CLIENT:

**DRAWING
TITLE:**

DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

ELECTRICAL CIRCUIT CONTROL UNIT

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE :

SCALE:

1 : 100

DESIGNED BY:

**ECO - PLANNERS &
ENGINEERING CONSULT**

DRAWN BY:

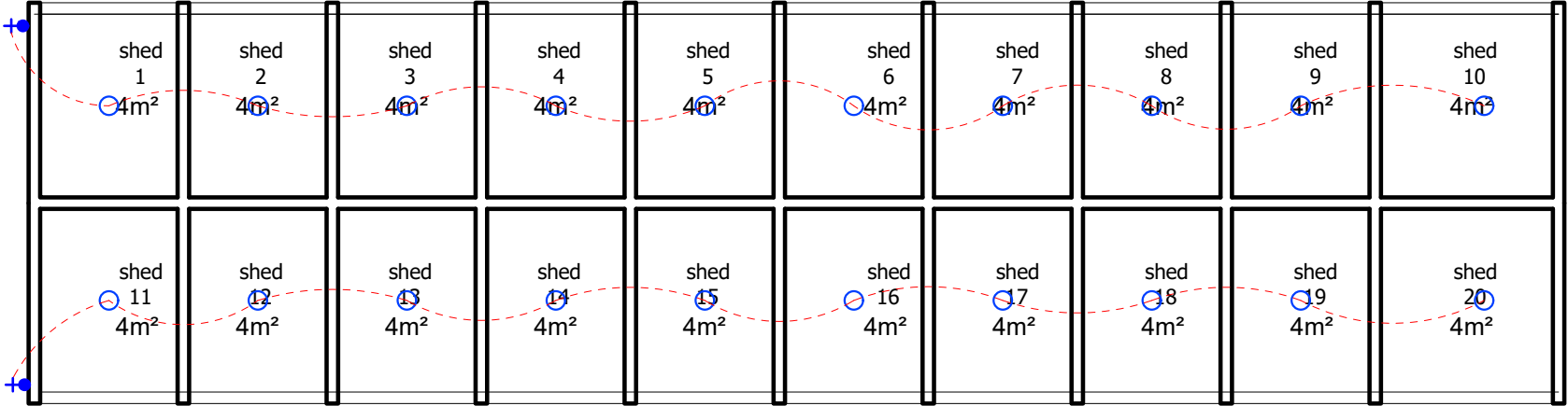
C. O. ABOARH & A. FRANK

DRG NO.:

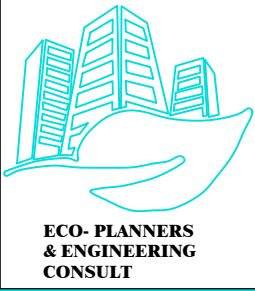
E13

BLOCK D (8NO)

LEGEND (LIGHTING LOAD)						
SYMBOL	DESCRIPTION	QUANTITY	WATTAGE	WATTAGE	WATTAGE	WATTAGE
⊕	30V LED DECORATIVE DIFFUSER as PHILIPS ROUND CEILING SPOT	0	0.012	-	0.8	-
○	30V LED DECORATIVE SQUARE CEILING LUMINAIR 2'x 2' POLYCARBONATE DIFFUSER as PHILIPS	20	0.030	0.6	0.8	0.48
✦	1 x 15w cfl ceiling button light fitting with glass shade	0	0.015	-	0.8	-
●	2 x 9w cfl ceiling surface mounted with glass shade	0	0.018	-	0.8	-
⊠	480mm x 600mm, 4x4W T5 fluorescent recessed with opal diffuser	0	0.056	-	0.8	-
□	30w LED STRIP LIGHTS WITH CHROME	0	0.012	-	0.8	-
🔊	30V DECORATIVE FANLIGHT	0	0.030	-	0.8	-
✂️	2400mm sweep ceiling fan complete with regulator	20	0.100	-	0.8	-
🔌	30w LED 1x20w cfl external wall button fitting complete with polycarbonate glass shade	0	0.050	-	0.8	-
⬠	30V LED ENERGY SAVING GLASS LIGHT FITTING 2'x 2' TROUSERT LAMP HOLDER as PHILIPS	0	0.018	-	0.8	-
—	1 x 20w T5 button weatherproof fluorescent fitting	0	0.028	-	0.8	-
🔌	20A 1P water heater switch					
⚡	1-gang, 1-way 6A switch					
⚡	2-gang, 1-way 6A switch					
⚡	3-gang, 1-way 6A switch					
⚡	1-gang, 2-way 6A switch					
⚡	2-gang, 2-way 6A switch					
⚡	Intermediate switch 6A switch					
⊙	PHOTOCELL					
A	TOTAL ASSUMED LIGHTING LOAD(W)					0.48



1

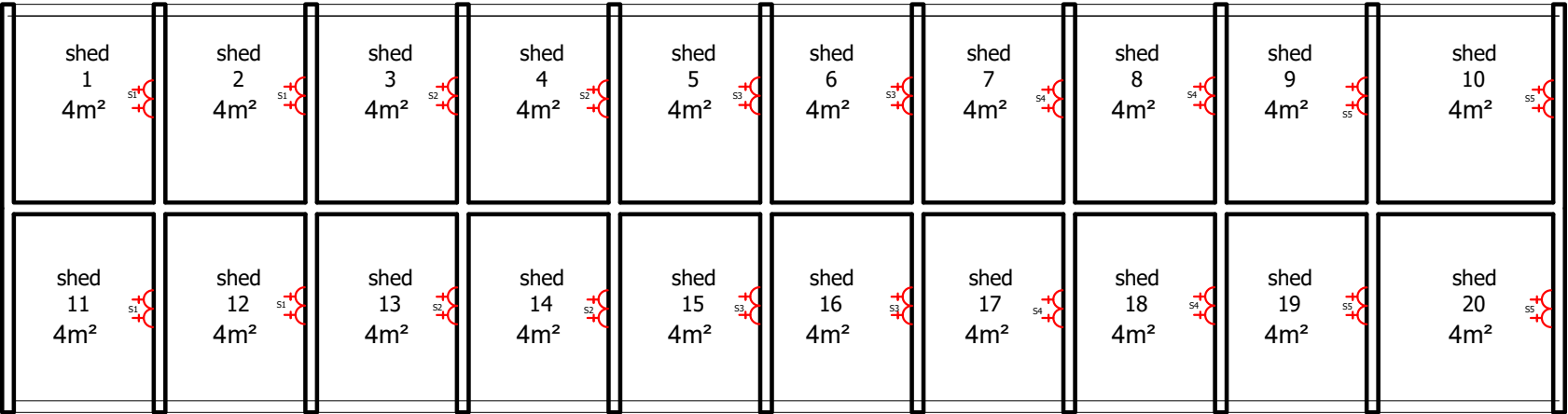


CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE	SCALE: DESIGNED BY: DRAWN BY:	1 : 100	DRG NO.: E01
	ELECTRICAL LAYOUT (LIGHTING SYSTEM)			ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:	OCTOBER, 2025			

NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR " +233 242 316 175" or " +233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT

LEGEND (POWER LOAD)						
SYMBOL	DESCRIPTION	QUANTITY	POWER KW	WATTAGE VA	AMPERE A	WATTAGE VA
	2 x 15A switch socket outlet	20	0.600	12	0.6	72
	20A 17W MS	0			1L	18.23A
	TV socket	12	0	0	0	0
	Data socket	29	0	0	0	0
	Telephone socket	2	0	0	0	0
	Hand dryer	6	0	0	0	0
	Distribution board	3	0	0	0	0
	Panel board	0	0	0	0	0

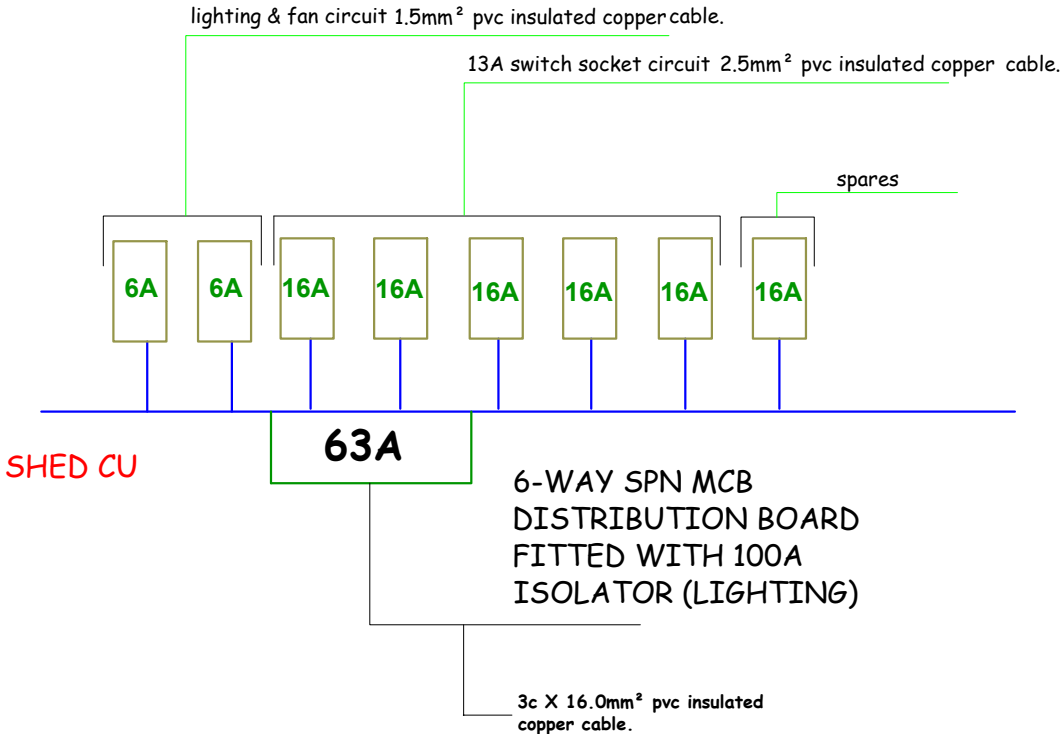


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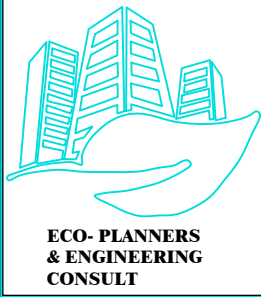


ECO- PLANNERS
& ENGINEERING
CONSULT

CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:	1 : 100	DRG NO.: E02
DRAWING TITLE:	ELECTRICAL LAYOUT (POWER SYSTEM)		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:	OCTOBER, 2025		DRAWN BY:		
		NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR "+233 242 316 175" or "+233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT			

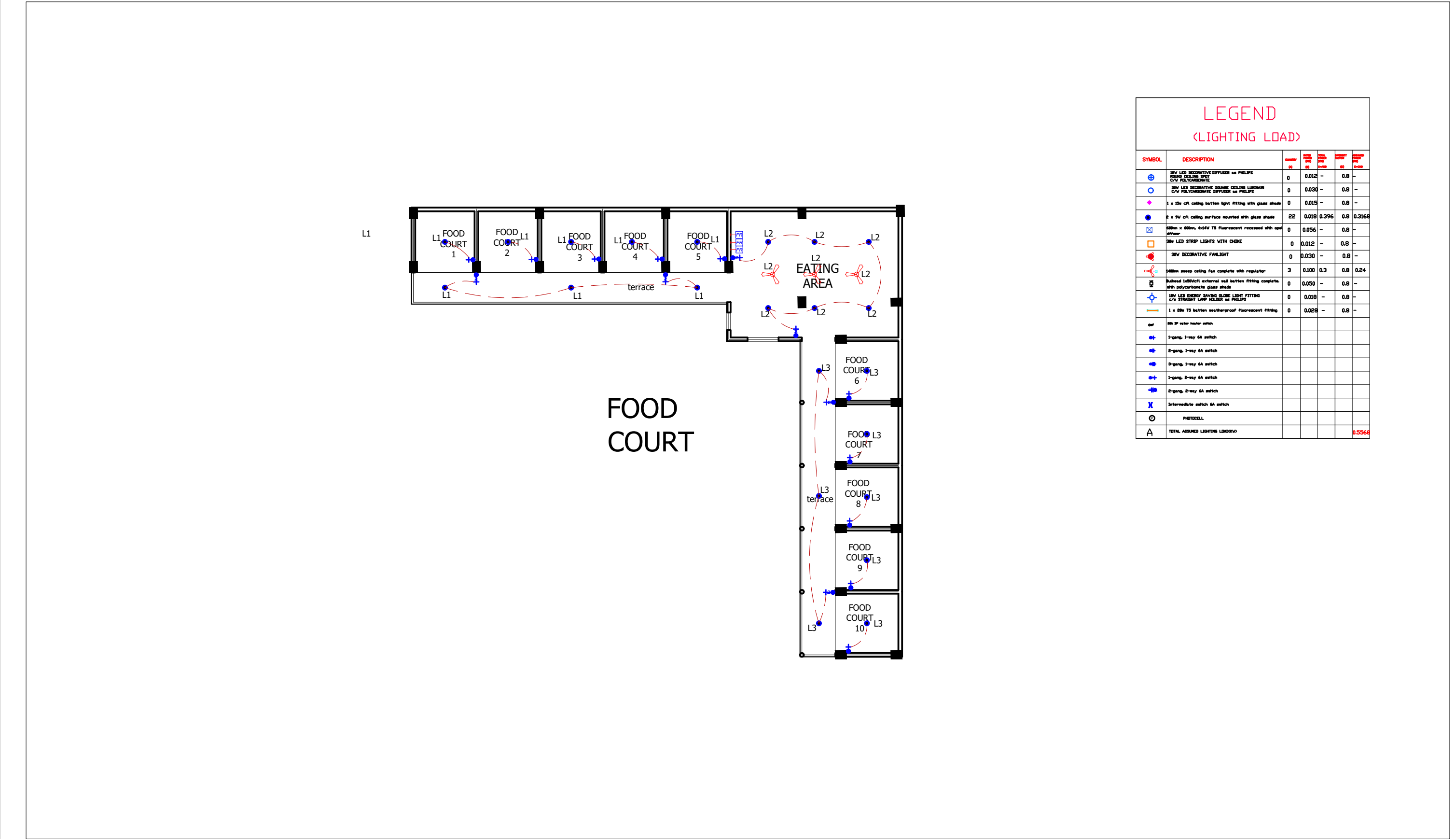


LEGEND						
(POWER LOAD FOR GF & FF)						
A	TOTAL ASSUMED LIGHTING LOAD(Kw)					0.48
	2 x 13A switch socket outlet.	20	0.600	12	0.6	7.2
	32A D.P air condition switch	0	2.700	0	0.8	0
	20-litre capacity water heater.	0	1.200	0	0.8	0
B	TOTAL ASSUMED POWER LOAD(Kw)					7.2
	TOTAL ASSUMED LOAD(Kw) A+B					7.68

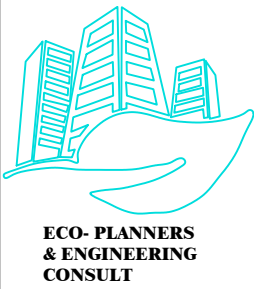


CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: E03
DRAWING TITLE:	ELECTRICAL CIRCUIT CONTROL UNIT			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:	OCTOBER, 2025			NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR "+233 242 316 175" or "+233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT	DRAWN BY:	

BLOCK E



LEGEND (LIGHTING LOAD)						
SYMBOL	DESCRIPTION	Quantity	Wattage	Wattage	Wattage	Wattage
⊕	30W LED DECORATIVE DIFFUSER as PHILIPS ROUND CEILING SPOT C/V POLYCARBONATE	0	0.012	-	0.8	-
○	30W LED DECORATIVE BRIMCE CEILING LUMINAIR C/V POLYCARBONATE DIFFUSER as PHILIPS	0	0.030	-	0.8	-
●	1 x 15w cft ceiling button light fitting with glass shade	0	0.015	-	0.8	-
●	2 x 3W cft ceiling surface mounted with glass shade	22	0.018	0.396	0.8	0.3168
⊗	600mm x 600mm, 4x4V T5 fluorescent recessed with opal diffuser	0	0.056	-	0.8	-
□	30w LED STRIP LIGHTS WITH CHROME	0	0.012	-	0.8	-
⊕	30W DECORATIVE FANLIGHT	0	0.030	-	0.8	-
⊕	1400mm sweep ceiling fan complete with regulator	3	0.100	0.3	0.8	0.24
⊕	Subhead 1x20W/cft external wall button fitting complete with polycarbonate glass shade	0	0.050	-	0.8	-
⊕	30W LED ENERGY SAVING GLOBE LIGHT FITTING C/V STRAIGHT LAMP HOLDER as PHILIPS	0	0.018	-	0.8	-
—	1 x 58w T5 bottom weatherproof fluorescent fitting	0	0.028	-	0.8	-
⊕	6A 3P motor heater switch					
⊕	1-gang, 1-way 6A switch					
⊕	2-gang, 1-way 6A switch					
⊕	3-gang, 1-way 6A switch					
⊕	1-gang, 2-way 6A switch					
⊕	2-gang, 2-way 6A switch					
⊕	Intermediate switch 6A switch					
⊕	PHOTOCELL					
A	TOTAL ASSUMED LIGHTING LOAD(W)					0.5568



CLIENT:

DRAWING TITLE:

DATE:

**MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS**

ELECTRICAL LAYOUT (LIGHTING SYSTEM)

OCTOBER, 2025

PROJECT :

**PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**

NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR " +233 242 316 175" or " +233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT



SCALE:

DESIGNED BY:

DRAWN BY:

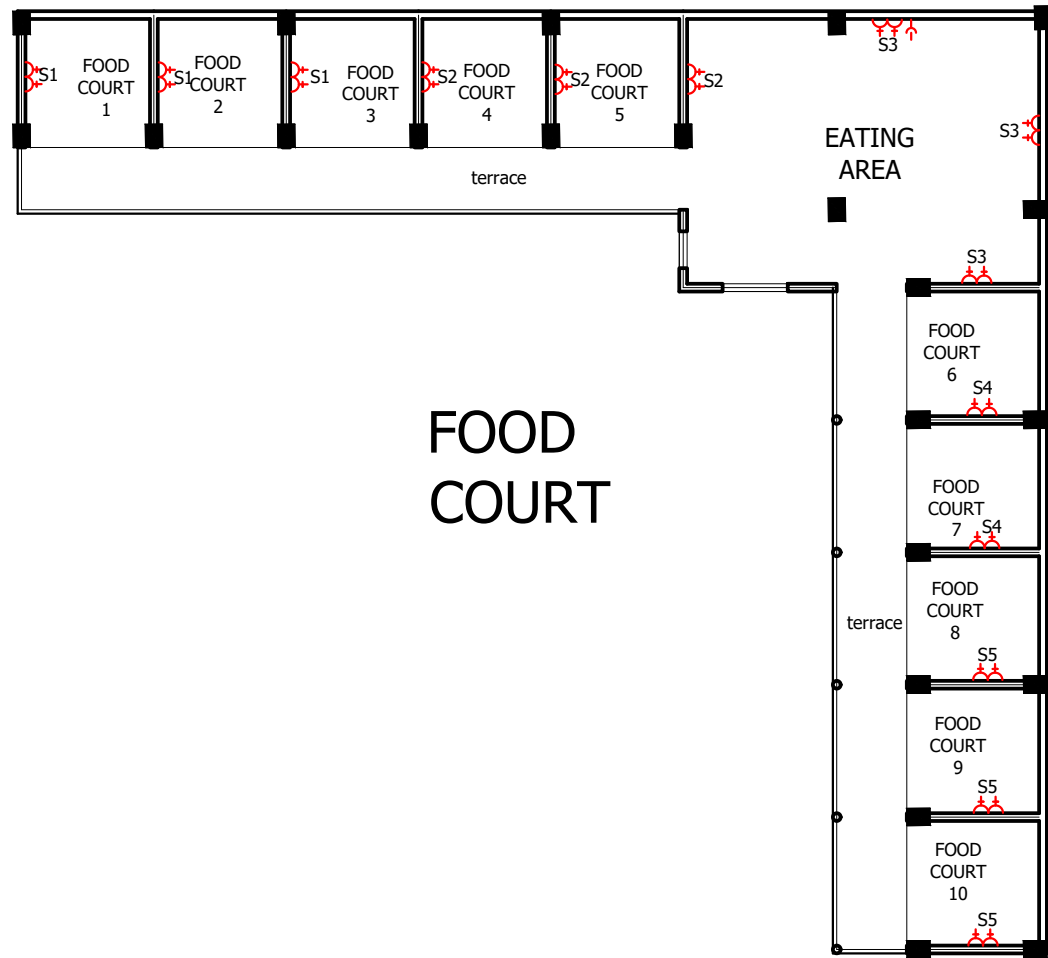
1 : 100

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ENGINEERING CONSULT**

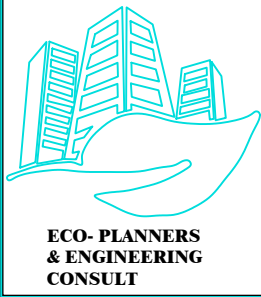
C. O. ABOARH & A. FRANK

DRG NO.:

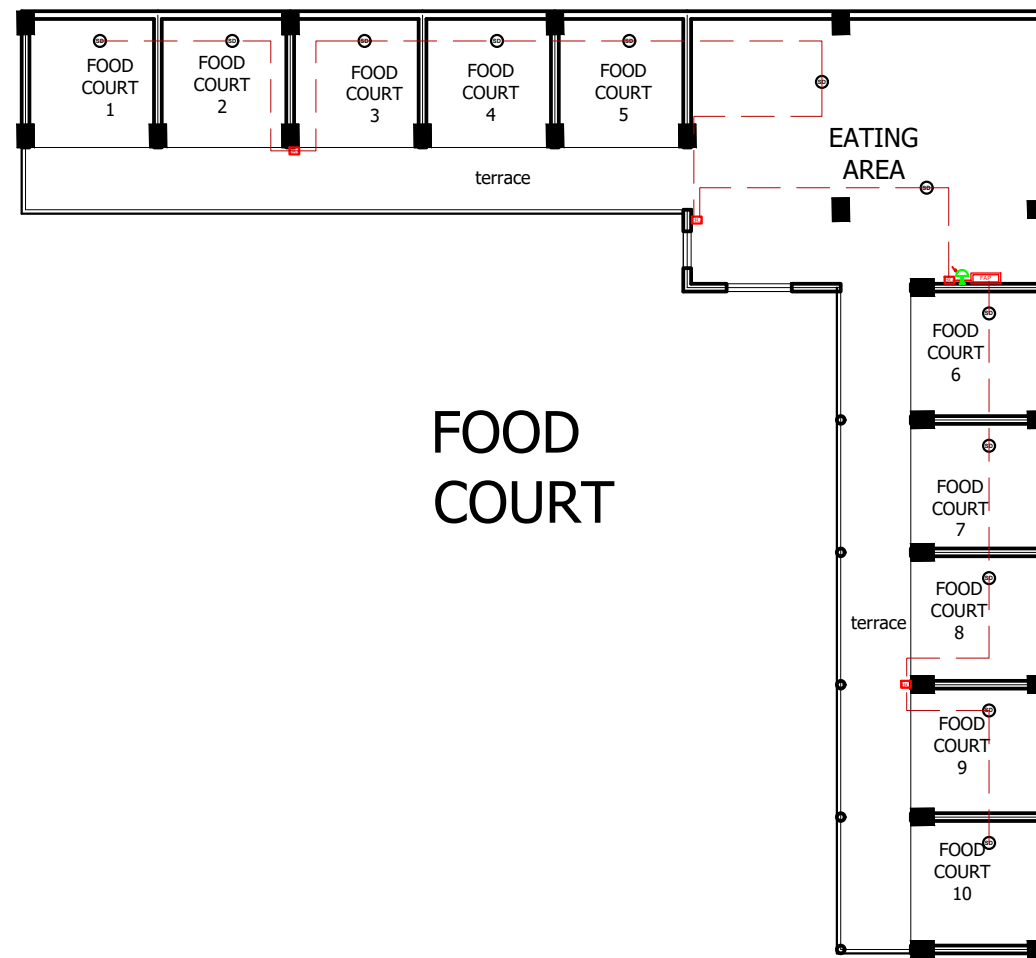
E01



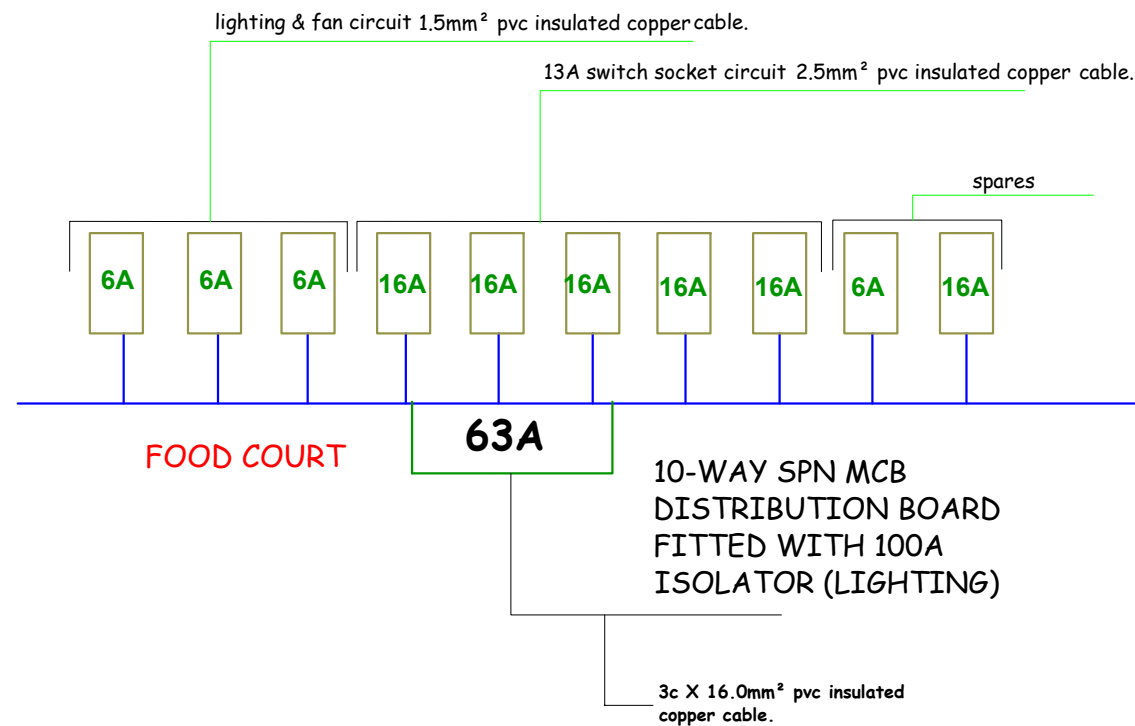
LEGEND (POWER LOAD)						
SYMBOL	DESCRIPTION	quantity	POWER W	POWER KVA	POWER HP	POWER HP
	2 x 15A switch socket outlet	14	0.600	8.4	0.6	5.04
	25A 1PH HCB	0			IL	18.23A
	TV socket	13	0	0	0	0
	Data socket	2	0	0	0	0
	Telephone socket	2	0	0	0	0
	Hand dryer	6	0	0	0	0
	Distribution board	22	0	0	0	0
	Panel board	0	0	0	0	0



CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:	1 : 100	DRG NO.: E02
DRAWING TITLE:	ELECTRICAL LAYOUT (POWER SYSTEM)		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:	OCTOBER, 2025		DRAWN BY:	C. O. ABOARH & A. FRANK	
		NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR "+233 242 316 175" or "+233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT			



 ECO- PLANNERS & ENGINEERING CONSULT	CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:	1 : 100	DRG NO.: E03
	DRAWING TITLE:	FIRE ALARM SYSTEM		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:	OCTOBER, 2025		DRAWN BY:	C. O. ABOARH & A. FRANK	
	NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR " +233 242 316 175" or " +233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT					



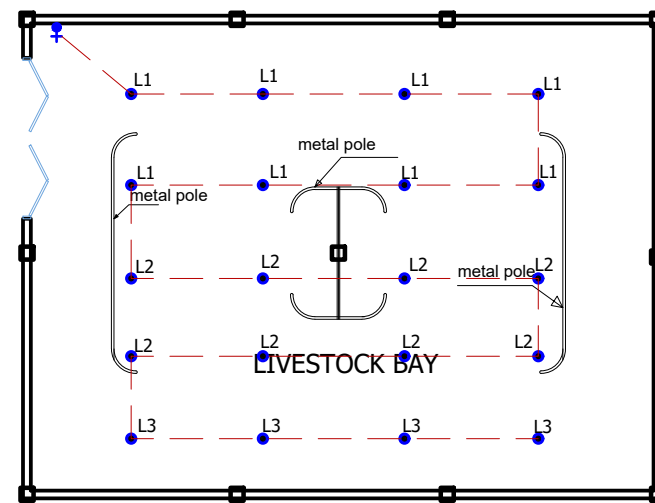
LEGEND

(POWER LOAD FOR GF & FF)

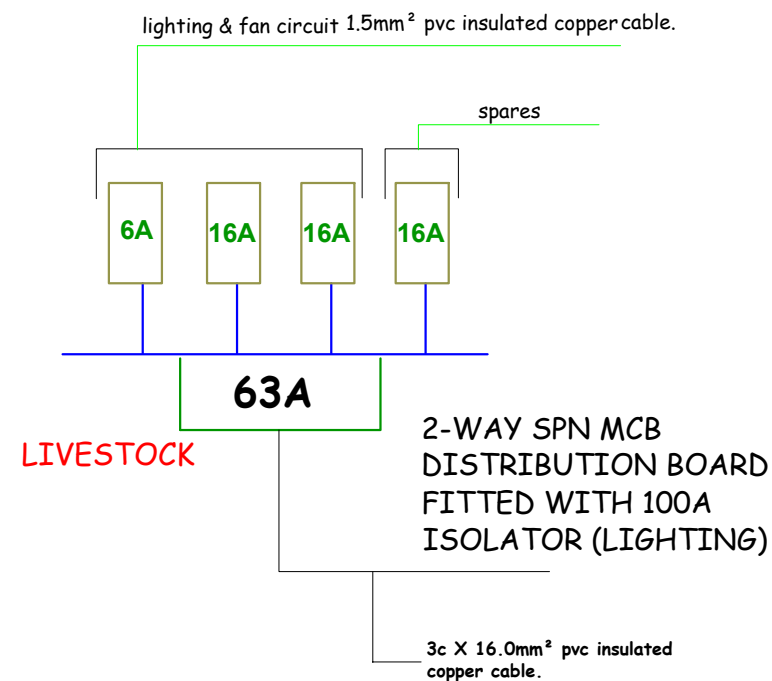
A	TOTAL ASSUMED LIGHTING LOAD(KW)					0.5568
	2 x 13A switch socket outlet.	22	0.600	8.4	0.6	5.04
	32A D/P air condition switch	0	2.700	0	0.8	0
	20-litre capacity water heater.	0	1.200	0	0.8	0
B	TOTAL ASSUMED POWER LOAD(KW)					5.04
	TOTAL ASSUMED LOAD(KW) A+B					5.6

 ECO- PLANNERS & ENGINEERING CONSULT	CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: E04
	DRAWING TITLE:	ELECTRICAL CIRCUIT CONTROL UNIT			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:	OCTOBER, 2025	NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT ("+233 247 898" 540 OR "+233 242 316 175" or "+233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT	DRAWN BY:	C. O. ABOARH & A. FRANK		

BLOCK F



 ECO- PLANNERS & ENGINEERING CONSULT	CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:	1 : 100	DRG NO.: E01
	DRAWING TITLE:	ELECTRICAL LAYOUT (LIGHTING SYSTEM)		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:	OCTOBER, 2025		DRAWN BY:	C. O. ABOARH & A. FRANK	
	NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR " +233 242 316 175" or " +233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT					



LEGEND

(POWER LOAD FOR GF & FF)

A	TOTAL ASSUMED LIGHTING LOAD(KW)						0.2536
	2 x 13A switch socket outlet.	3	0.600	1.8	0.6	1.08	
	32A DP air condition switch	1	2.700	2.7	0.8	2.16	
	20-litre capacity water heater.	0	1.200	0	0.8	0	
B	TOTAL ASSUMED POWER LOAD(KW)						3.24
	TOTAL ASSUMED LOAD(KW) A+B						3.5



CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT :	PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE	SCALE:	1 : 100	DRG NO.:
DRAWING TITLE:	ELECTRICAL CIRCUIT CONTROL UNIT			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	E02
DATE:	OCTOBER, 2025	NOTE :	- DIRECT MEASUREMENT IS NOT ALLOWED FOR ANY CLARIFICATION CONTACT ("+233 247 898" 540 OR "+233 242 316 175" or "+233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT	DRAWN BY:	C. O. ABOARH & A. FRANK	