

MODEL MARKET 2



CLIENT:

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

PROJECT:

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



LOCATION :



BLOCK B

LOCKABLE SHOPS

ELECTRICAL, FIRE SYSTEM, AC & PLUMBING DRAWINGS

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

DRAWING SCHEDULE

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

Client: Ministry of Local Government,
Chieftaincy & Religious Affairs

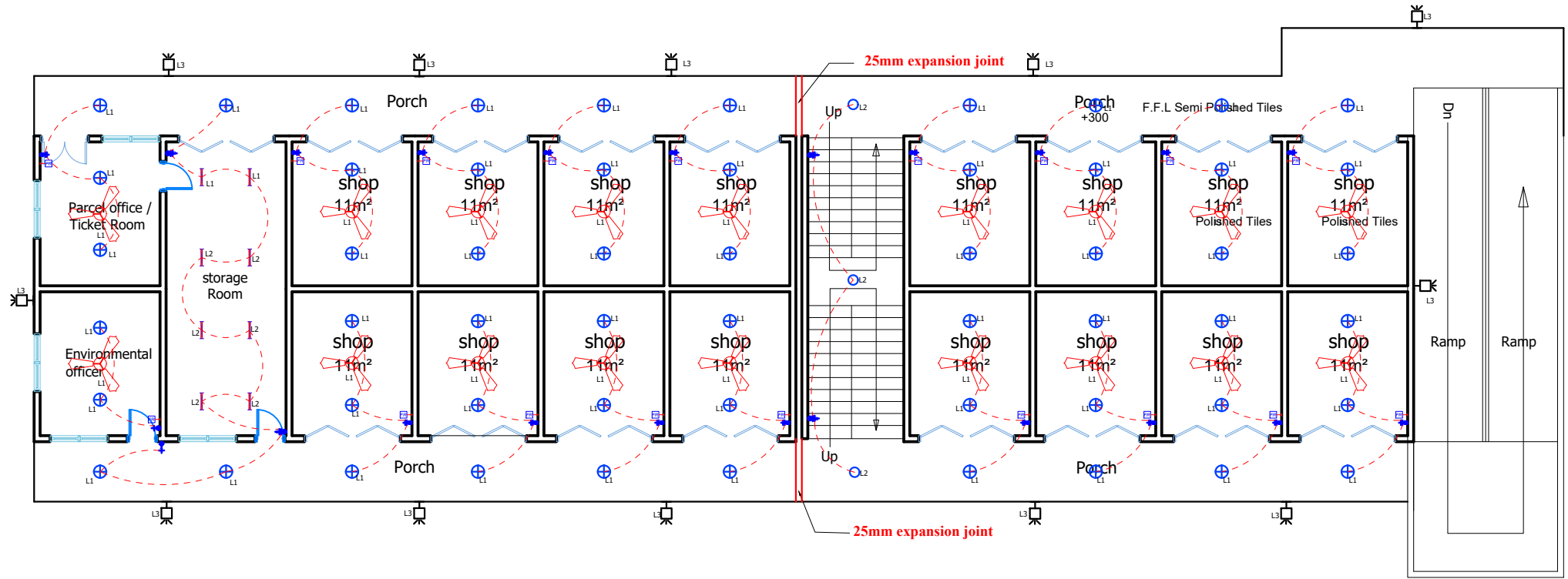
Eco-Planners & Engineering Consult

SHEET	DRAWING TITLE	PAGE IN ORIGINAL SET
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ELECTRICAL, FIRE SYSTEM, AC & PLUMBING DRAWINGS

BLOCK B

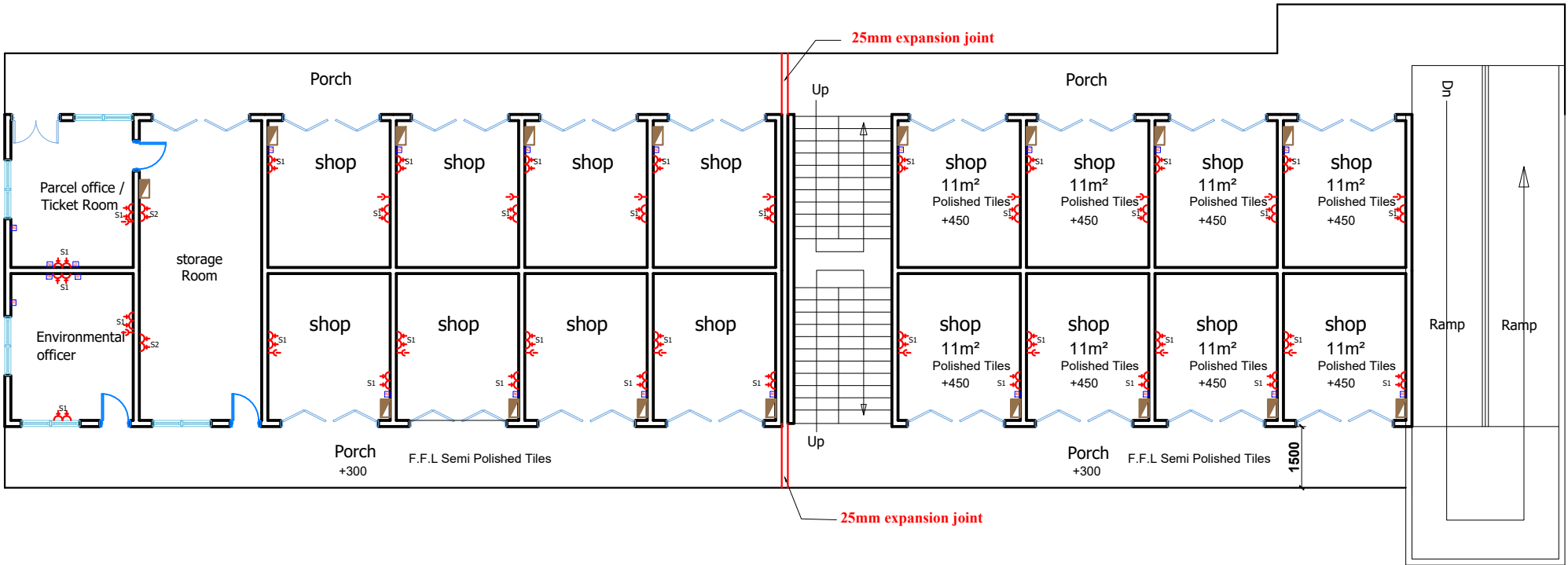
LEGEND (LIGHTING LOAD)						
SYMBOL	DESCRIPTION	QTY	W	V	VA	W
	30W LED RECESSIVE DOWNLIGHTER or PHILIPS SOUND CEILING SPOT C/V POLYCARBONATE	56	0.012	0.672	0.8	0.5376
	30W LED RECESSIVE SQUARE CEILING DOWNLIGHT C/V POLYCARBONATE, DIFFUSER or PHILIPS	3	0.030	0.09	0.8	0.72
	1 x 25w cfl ceiling downlight 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 RECESSIVE 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(WVA)					3.3168



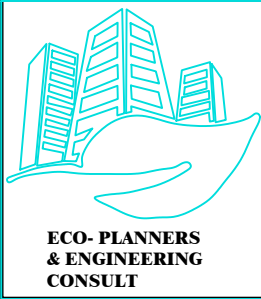
GROUND FLOOR PLAN

 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		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:	

LEGEND (POWER LOAD)						
SYMBOL	DESCRIPTION	QUANTITY	POWER (W)	TOTAL POWER (W)	AMPERE (A)	REMARKS
	2 x 10A switch socket outlet	39	0.600	23.4	0.6	14.04
	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

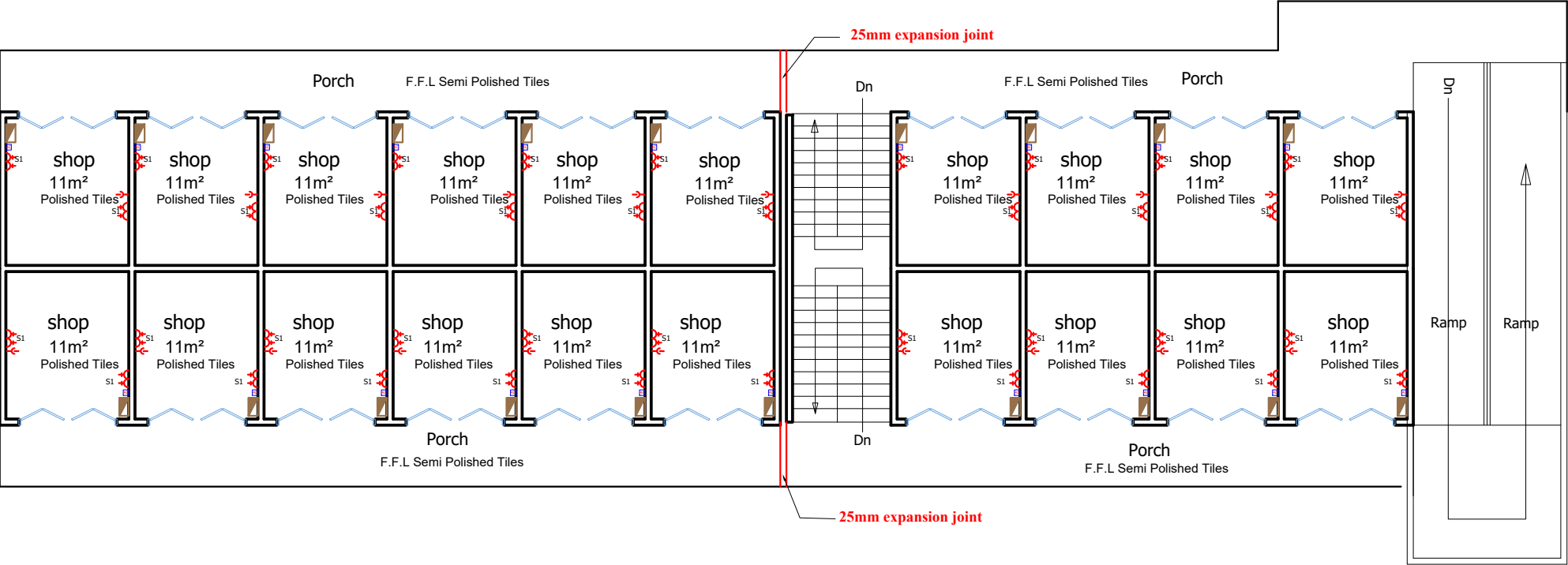


GROUND FLOOR PLAN

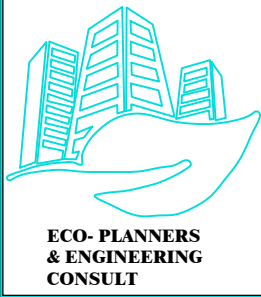


CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: E03
DRAWING TITLE:	ELECTRICAL LAYOUT (POWER SYSTEM)			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:				DRAWN BY:	C. O. ABOARH & A. FRANK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

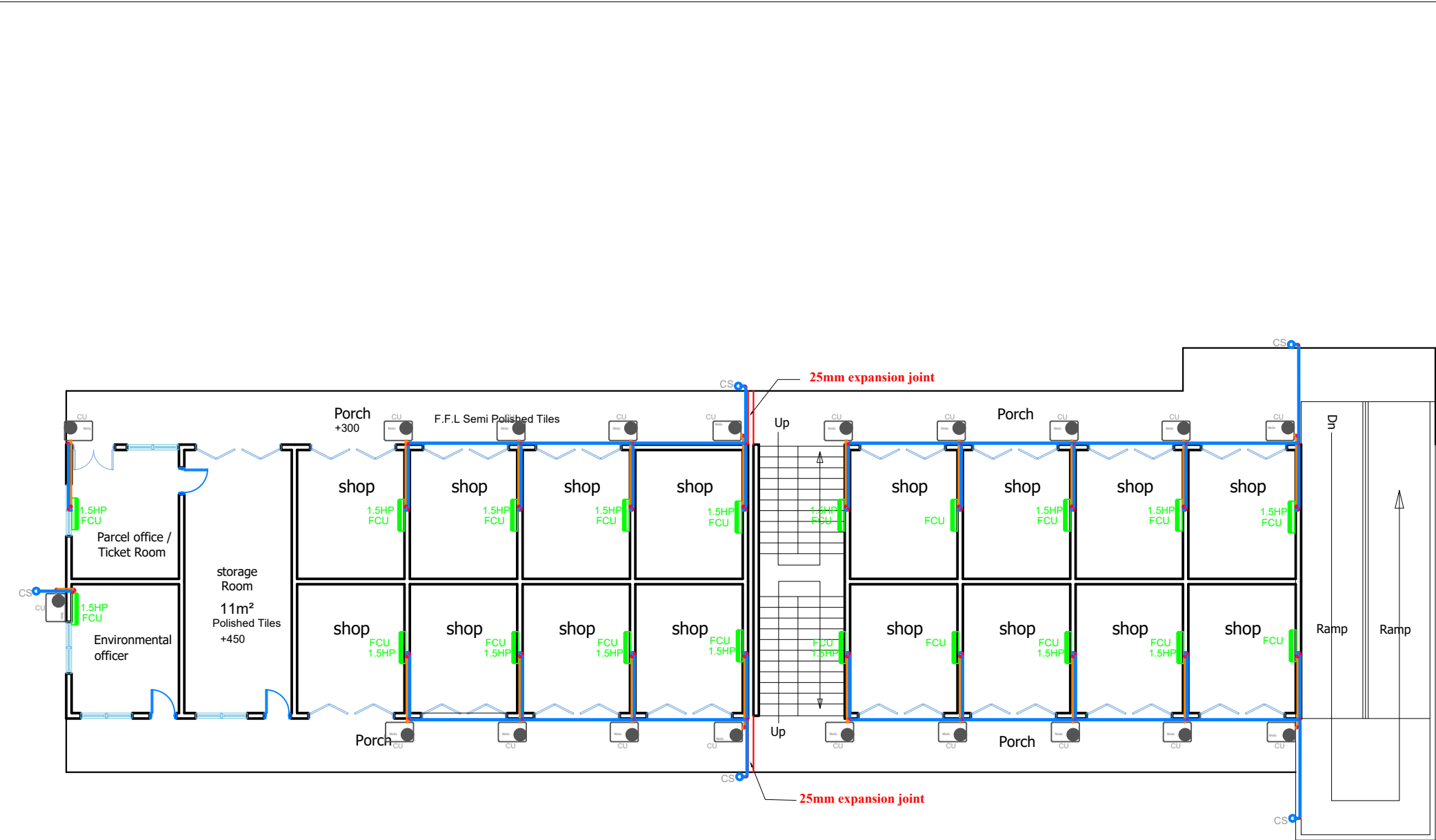
LEGEND (POWER LOAD)						
SYMBOL	DESCRIPTION	QUANTITY	POWER (W)	TOTAL POWER (W)	LOAD FACTOR	LOAD FACTOR (VA)
	2 x 10A switch socket outlet	40	0.600	24	0.6	14.4
	20A 17W HCS	0			IL	18.23A
	TV socket	12	0	0	0	0
	Data socket	29	0	0	0	0
	Telephone socket	2	0	0	0	0
	Hand dryer	6	0	0	0	0
	Distribution board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



FIRST FLOOR PLAN

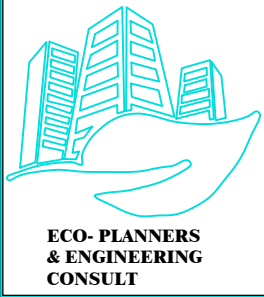


CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: E04
	DRAWING TITLE:			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:			DRAWN BY:	C. O. ABOARH & A. FRANK	



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

GROUND FLOOR PLAN



ECO- PLANNERS
& ENGINEERING
CONSULT

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 :



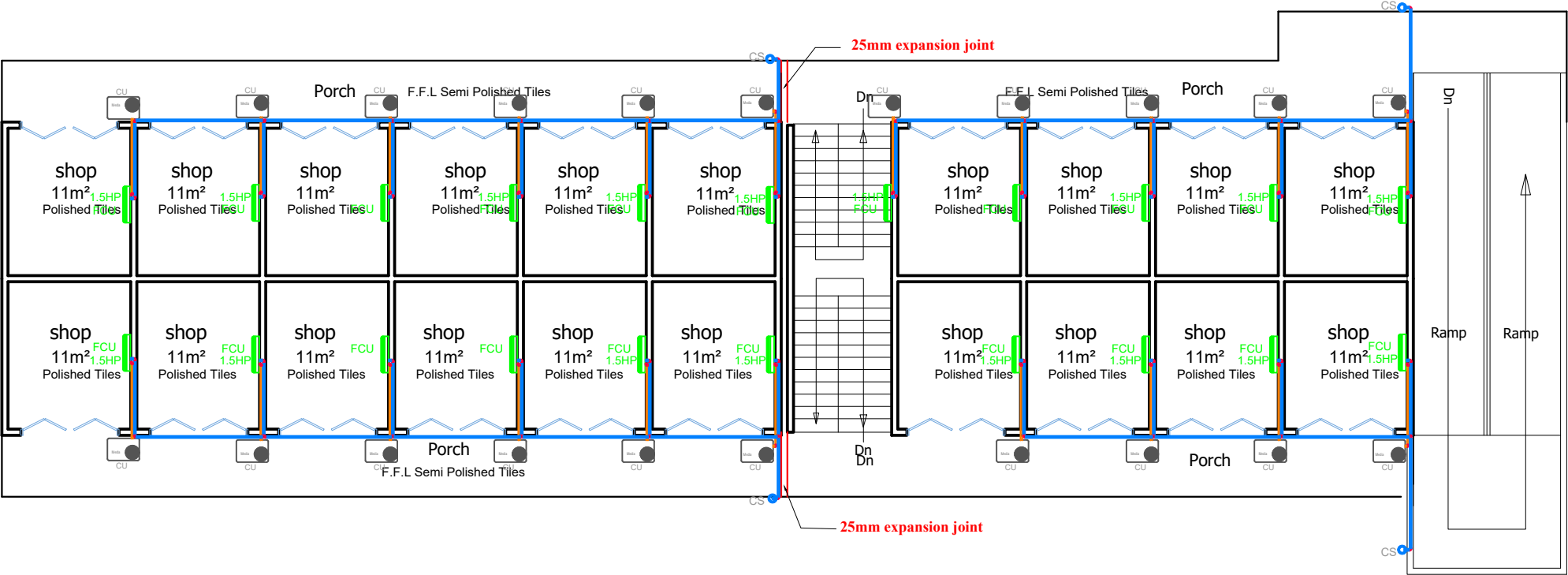
SCALE:
DESIGNED BY:
DRAWN BY:

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

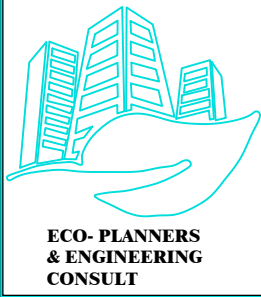
DRG NO.:

A05

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



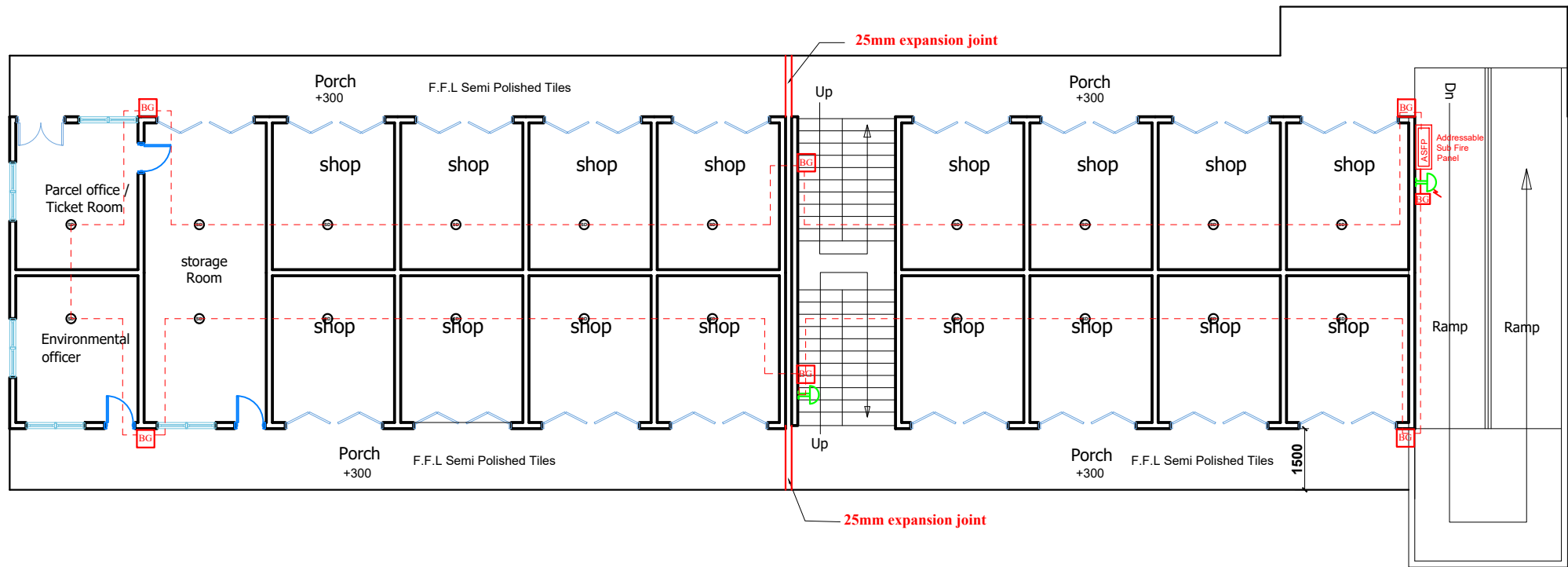
FIRST FLOOR PLAN



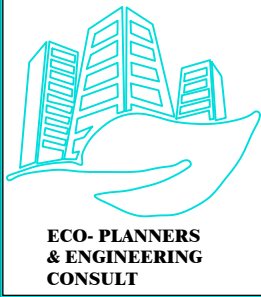
CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: A06
	DRAWING TITLE:			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:			DRAWN BY:	C. O. ABOARH & A. FRANK	

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	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: A07
DRAWING TITLE:	FIRE ALARM SYSTEM			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:				DRAWN BY:	C. O. ABOARH & A. FRANK	
		NOTE :				

LEGEND

F.A.S



Call point break glass



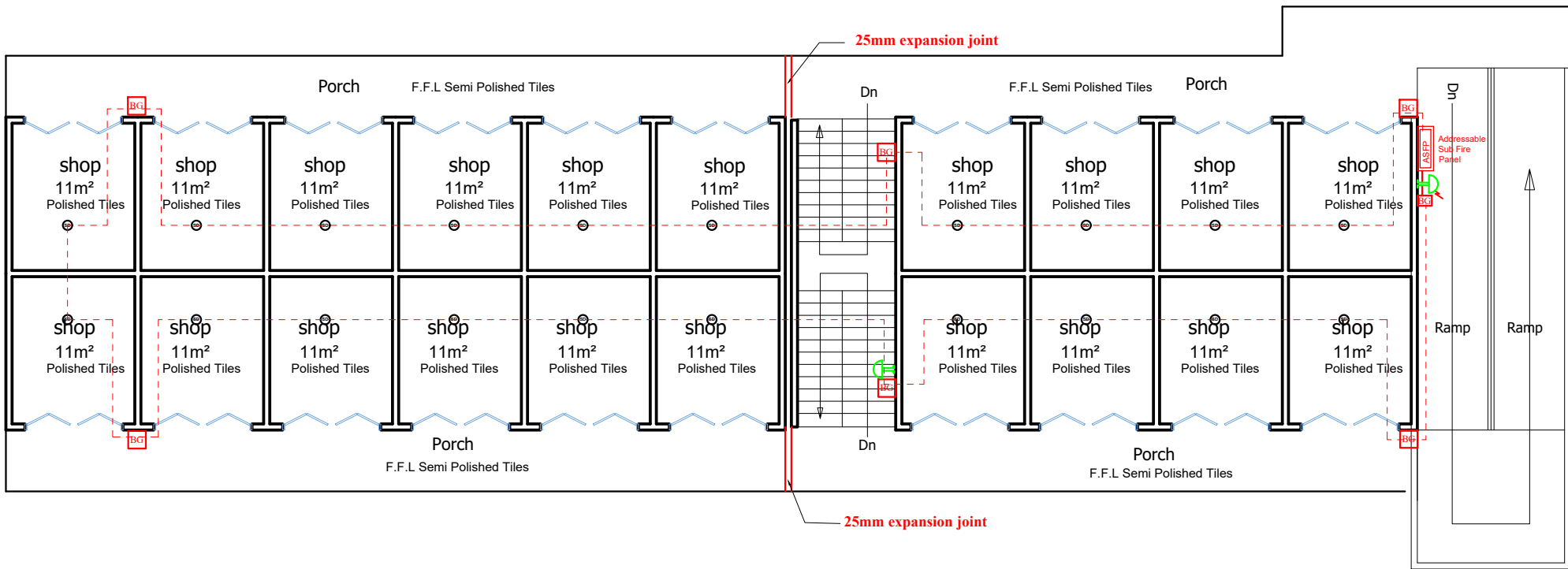
Electronic sounder



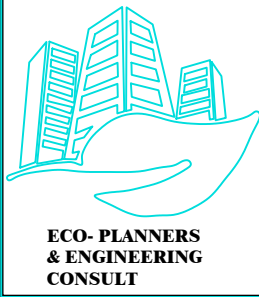
Photoelectric smoke detector



FIRE ALARM PANEL



FIRST 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**

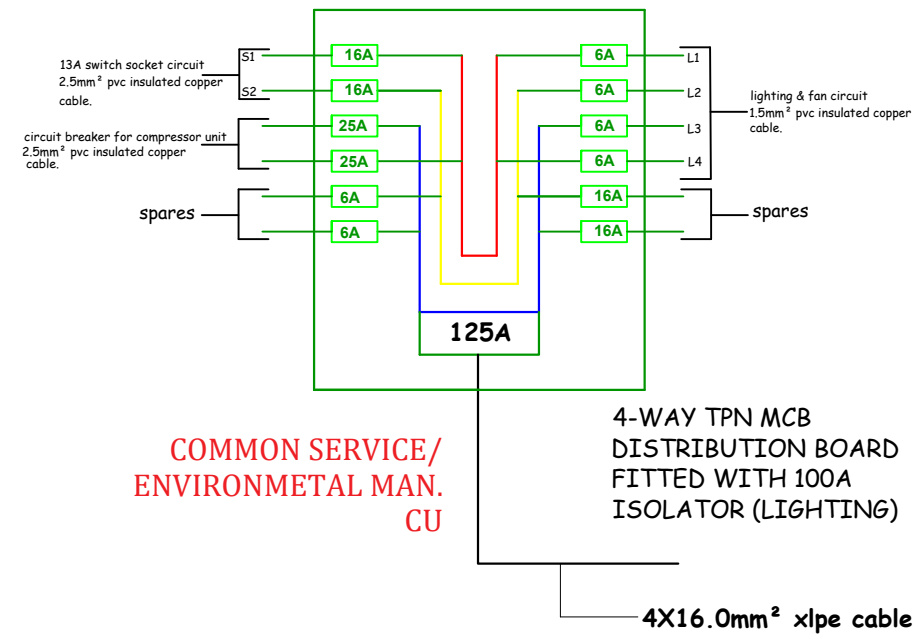
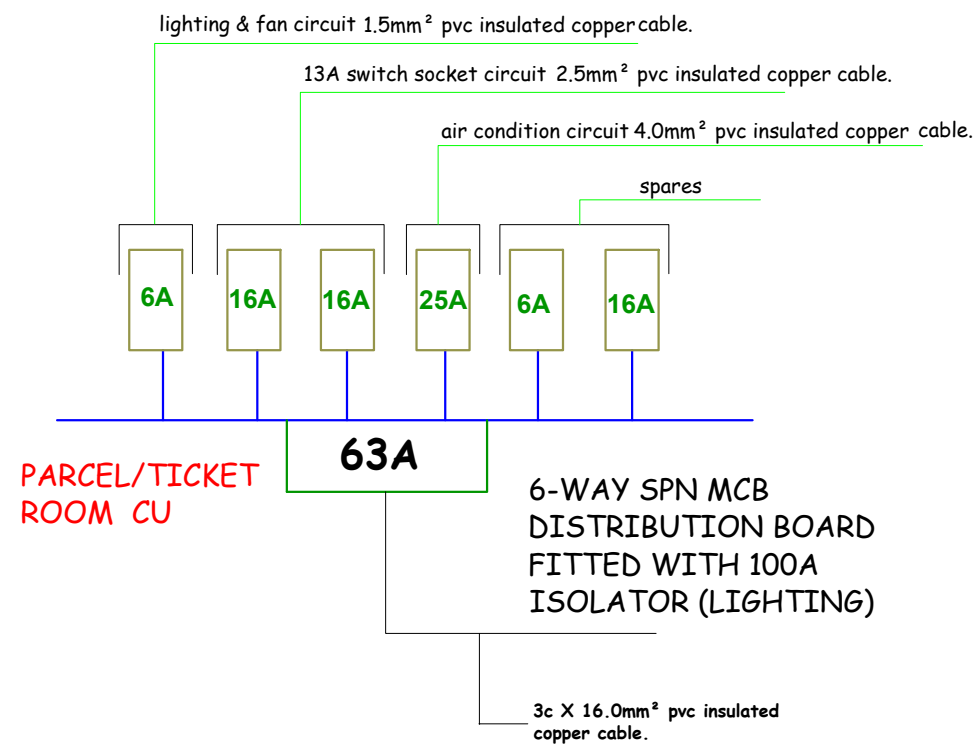
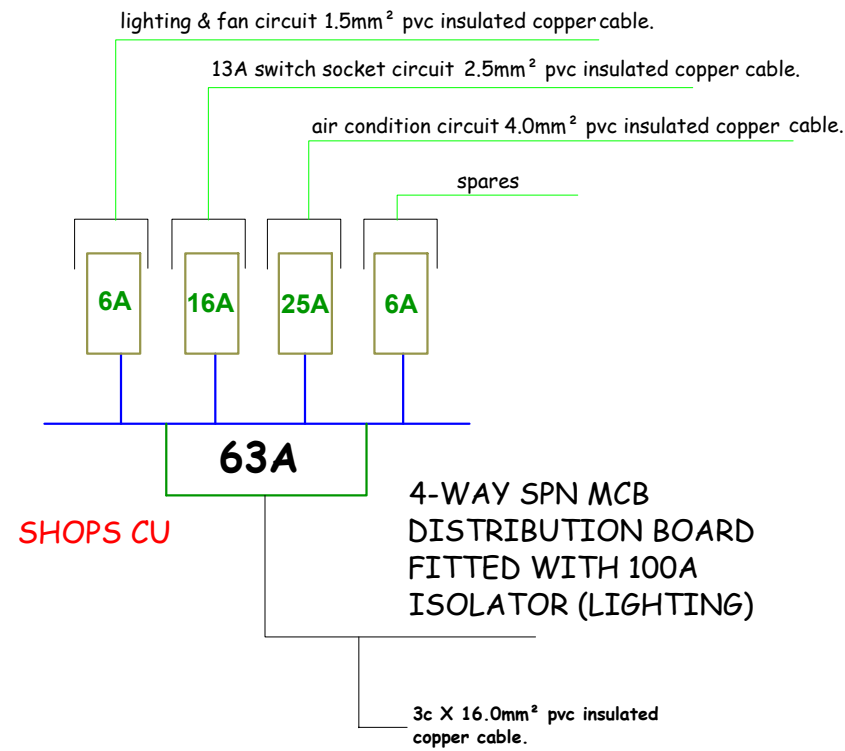
DRAWN BY:

C. O. ABOARH & A. FRANK

NOTE :

DRG NO.:

A08



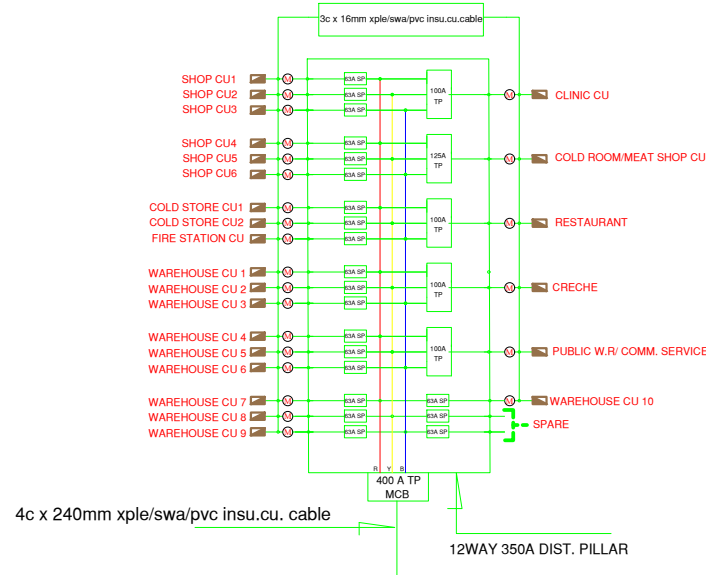
GROUND FLOOR PLAN

 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.: E09
	DRAWING TITLE:	ELECTRICAL CIRCUIT CONTROL UNIT			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:		NOTE :	DRAWN BY:	C. O. ABOARH & A. FRANK		

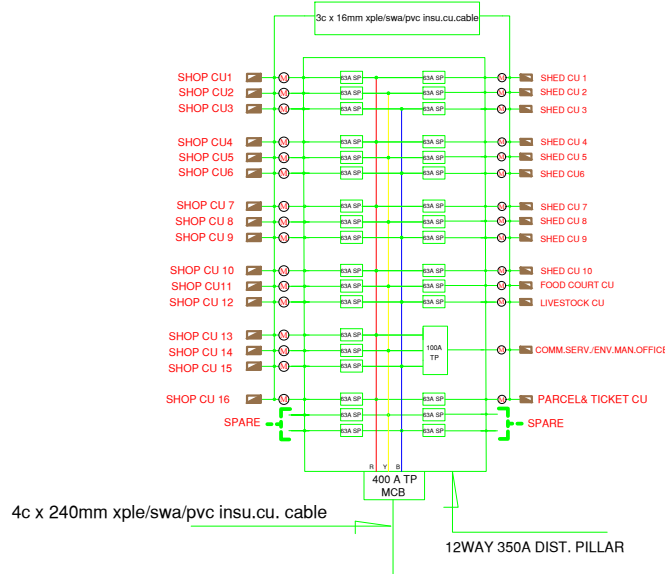
LEGEND (POWER LOAD FOR GF & FF)						
A	TOTAL ASSUMED LIGHTING LOAD(KW)					7.1648
	2 x 13A switch socket outlet.	79	0.600	47.4	0.6	28.44
	32A DP air condition switch	38	2.700	102.6	0.8	82.08
	20-litre capacity water heater.	0	1.200	0	0.8	0
B	TOTAL ASSUMED POWER LOAD(KW)					110.52
	TOTAL ASSUMED LOAD(KW)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

FIRST FLOOR PLAN

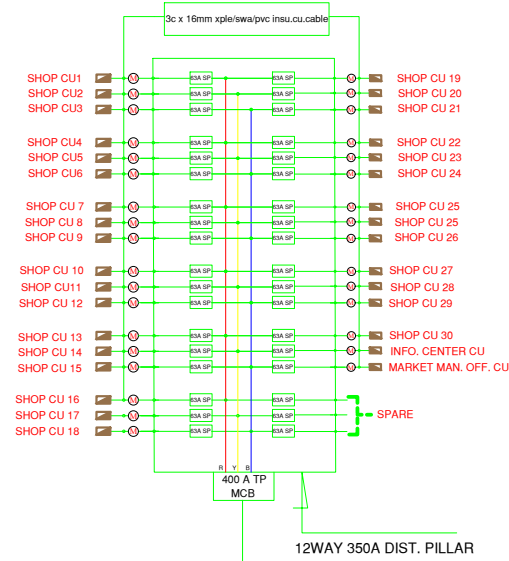
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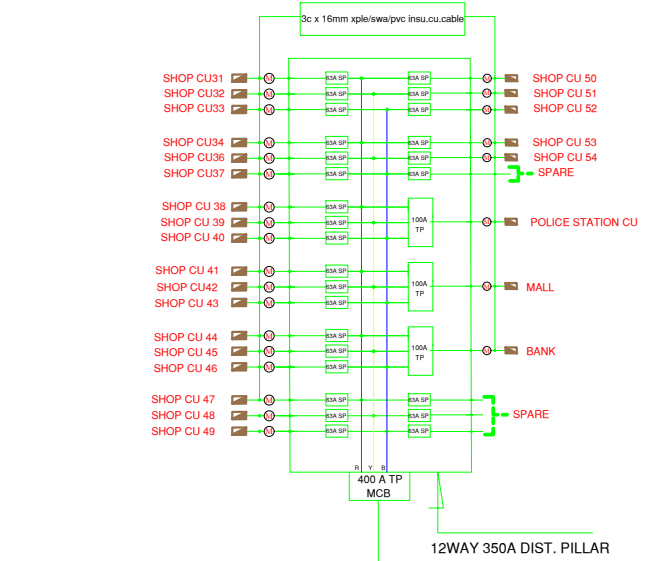
2



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		