

PB PUMPROOM		80A TP		25mmSQ 4C)		FED FROM FP9	
REAKER	10 SP	10 SP	30ELCB	10 TP	60 TP	20 TP	TOTAL
CONTROL							
RCUIT NO	L1	L2	P1	P2	P3	Pockey	
DAD/PHASE	LGT	SPARE	SSO	W/PUMP	F/PUMP	Jockey	
WIRE(mm)	1C/1.5	SPARE	1C/2.5	4C/2.5	4C/10	4C/4.0	
Watts	288	SPARE	2000	2200	30000	7500	41,988
W	0.288	SPARE	2	2.2	30	7.5	42
iv KW	0.3	SPARE	1.6	1.8	30.0	7.5	41
DIV LOAD							41
		SINGLE PHASE (RED,YELLOW,BLUE)					
		THREE PHASE					

[illegible]

1. ALL CABLES ENTIRELY TO EQUIPMENT LOCATED OUTDOORS AND IN WASH DOWN AREAS SHALL BE FROM BELOW.
2. SUFFICIENT CABLE STRETCH LENGTHS SHALL BE PROVIDED FOR EQUIPMENT WHICH NEEDS FUTURE ADJUSTMENTS.
3. SINGLE CORE CABLES FOR 3 PHASE AC SHALL BE RUN IN TRIFOIL FORMATION.
4. THE MINIMUM BENDING RADII OF CABLES SPECIFIED BY THE MANUFACTURER SHALL BE MAINTAINED.
5. ON CROSSING PPDS SERVICES A MINIMUM DISTANCE OF 150mm SEPARATION SHALL BE MAINTAINED, AND CONCRETE SLABS SHALL BE USED TO SEPARATE THE SERVICES/SEPARATION FROM COMMUNICATION CABLES SHALL BE 200mm MINIMUM.
6. ALL THE DIMENSIONS SHOWN ON DRAWINGS ARE METRIC (mm)
7. THE MEET OF THESE DRAWINGS IS TO GUIDE THE CONTRACTOR IN THE SCHEME OF WORKS. CONTRACTOR SHALL MAKE PROPER SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER AND SUBMIT IT BEFORE THE WORK COMMENCED AT SITE.
8. ALL ELECTRICAL WORKS SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION.
9. THE ROUTING OF CABLES SHOWN ON THE DRAWINGS IS FOR GUIDANCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AT THE STAGE OF DESIGN, THE RUNS OF ALL CABLES IN RELATION TO STRUCTURAL RESTRICTION SO THAT ALL MATERIALS SUCH AS CONCRETE ACCESSORIES ARE INCLUDED IN HIS PRICE. ACTUAL LOCATIONS OF ALL OUTLETS MUST BE VERIFIED BY THE SITE ENGINEER BEFORE INSTALLATION COMMENCES.
10. ALL ELECTRICAL EQUIPMENT SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER AND THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT ARE SUITABLE FOR THE PURPOSE FOR WHICH THEY ARE REQUIRED.

1. MOUNTING HEIGHTS SHALL BE GENERALLY AS INDICATED BELOW OR AS INSTRUCTED BY THE ENGINEER WITHOUT ANY COST APPLICATION TO THE CONTRUCTOR.

- LIGHTING SWITCH = 1500mm AFFL.
- GENERAL SOCKET OUTLET = 450mm AFFL.
- SOCKET OUTLET AT KITCHEN = 1100mm AFFL.
- HAND DRYERS = AS MENTIONED IN INTERIOR DESIGN DRAWINGS
- ISOLATOR SWITCH = ADJACENT TO EQUIPMENT

2. WIRE SIZES SHALL BE STRICTLY FOLLOWED ACCORDING TO THE INDICATED SIZES SHOWN IN THE PANEL DETAILS. WIRES SHALL BE COLOR CODED AS SPECIFIED.

3. WIRING FOR SMALL POWER AND LOW CURRENT CIRCUITS SHALL BE TOTALLY SEGREGATED. THIS IS INCLUDING PANELS, RACEWAY, WIRES, BOXES, SWITCHES ETC.
4. ALL ISOLATORS DESIGNATED FOR ELECTRIC APPLIANCES OR EQUIPMENT SHALL BE LABELED WITH THE EQUIPMENT REFERENCE.

5. CONDUIT INSTALLATIONS SHALL BE AS PER SPECS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING DRAWINGS AND FINISHING TABLES FOR EXACT ARRANGEMENT OF LUMINAIRE.
7. CORD (FLEXIBLE) OUTLET SHALL BE INSTALLED FOR ANY REMOTE

8. WIRING FOR LIGHTING CIRCUITS ARE FOR GUIDANCE ONLY THE CONTRACTOR MAY CHOOSE THE MOST CONVENIENT ROUTE. MATCHING THE PROJECT SPECIFICATIONS AND SHOW IT IN HIS SHOP DRAWINGS.

9. THE CONTRACTOR SHALL SUBMIT PANEL BOARDS DETAILS ALONG WITH THE REQUIRED SUBMITTALS AND SHOP DRAWINGS SHOWING,
- CIRCUIT REFERENCE SHOWN ON LAYOUTS
 - ACTUAL LOAD OF EACH CIRCUIT PER PHASE IN VA
 - SUMMATION OF EACH PHASE LOAD ASSURING 3 PHASE LOAD

- AREAS SERVED BY EACH CIRCUIT
- RATING OF ALL COMPONENTS
- WIRE SIZE AND No. OF WIRES
- SCHEMATIC DIAGRAMS FOR CONTROL CIRCUITS IF ANY ENCLOSURE AND BUSES SPECIFICATIONS

11. CONVENIENCE SOCKET OUTLETS FED FROM EMERGENCY PANELS
UPS SHALL BE SELECTED WITH DIFFERENT COLOUR COVER PLATE

STAGE : TENDER			
	INITIAL	SIGN	DATE
G4 Project Engineer			
Project Manager			
Project Architect			
Client			

REV	DESCRIPTION	DATE	INITIAL

CLIENT



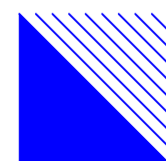
SOUTHERN AFRICAN
DEVELOPMENT COMMUNITY

PROJECT

SADC STANDBY FORCE REGIONAL
LOGISTICS DEPOT, AT RASESA,
GABORONE, BOTSWANA,

DRAWING TITLE

DB ONE-LINE
DRAWING-ARMOURY, KITCHEN
WAREHOUSE, GYM, PUMPROOM



G4 CONSULTING ENGINEERS
PRIVATE BAG BR 297
GABORONE
BOTSWANA

TEL. 3972510 FAX 3972504

DESIGNED : HG	JOB NO. : g4448
DRAWN : HG	SCALE : 1:100
APPROVED :	DATE : JUN 2021
DRAWING NO.	REV.

SADC/ELEC/40240

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