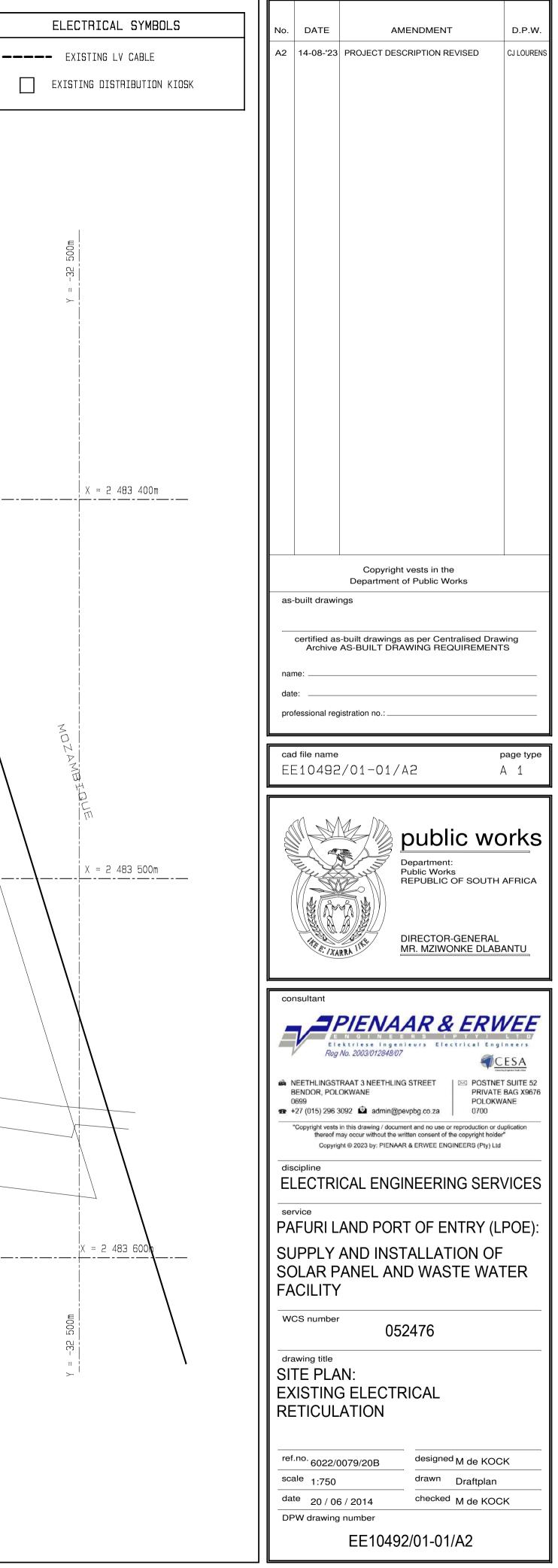
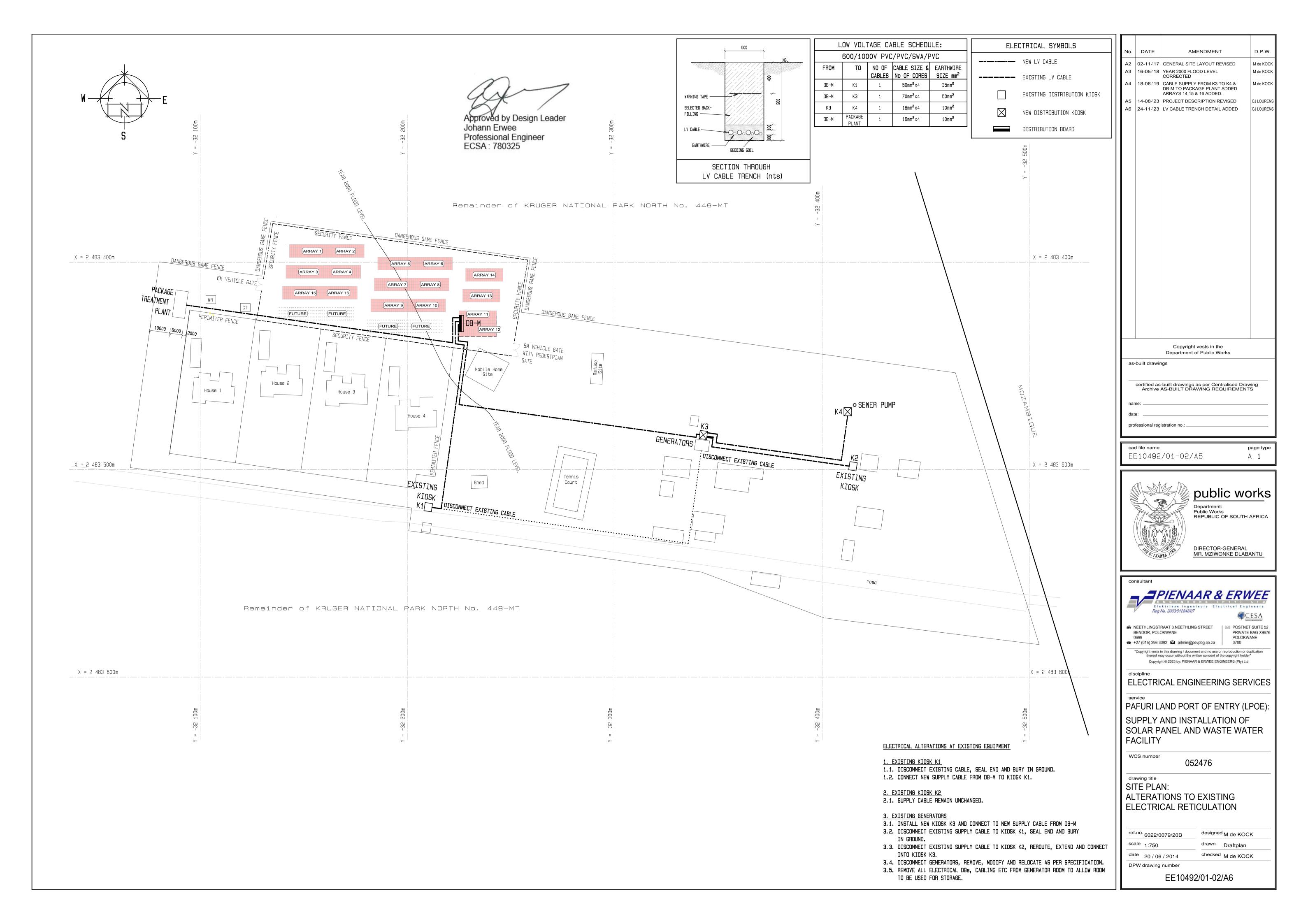
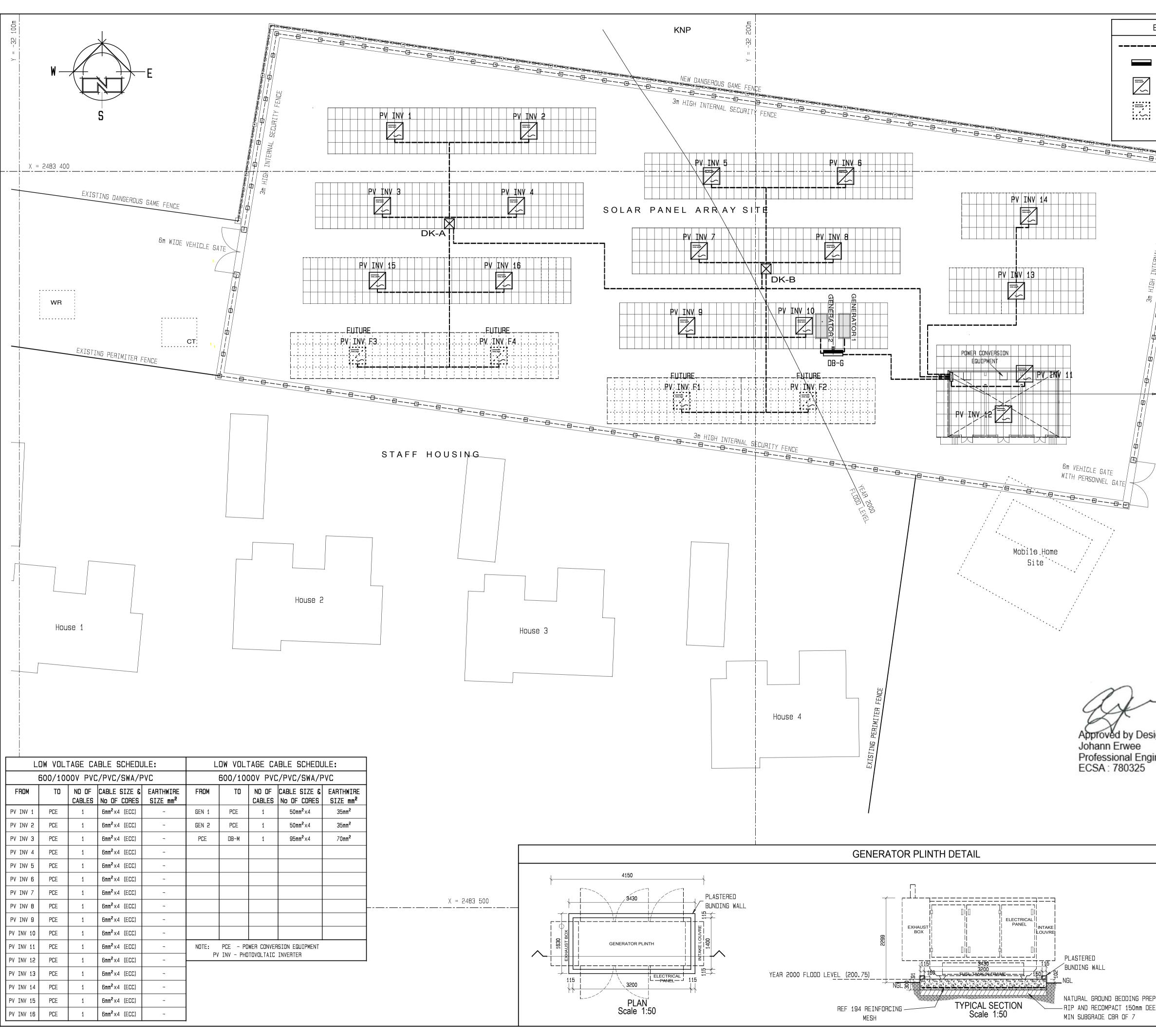


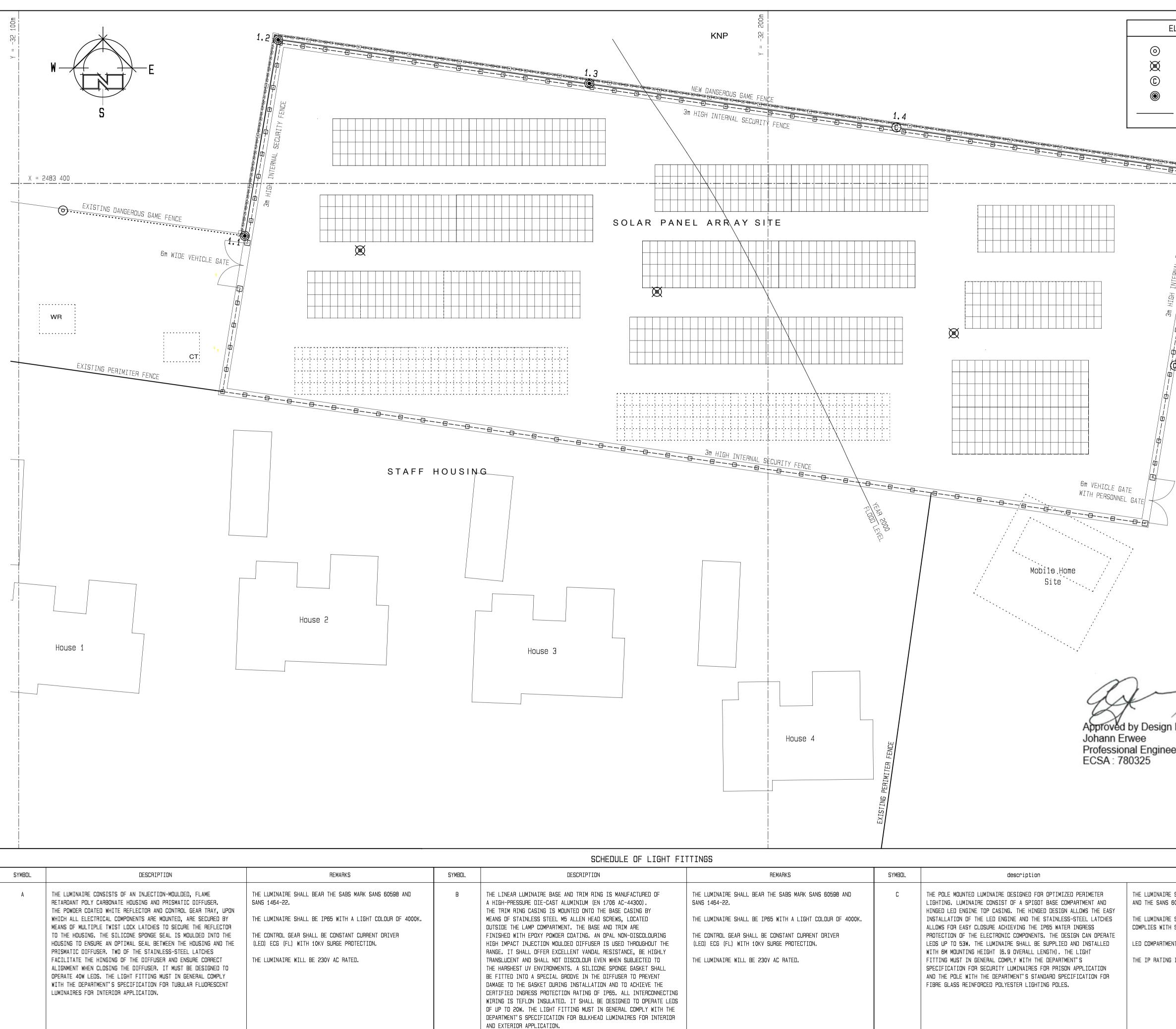
Approved by Design Leader Johann Erwee Professional Engineer ECSA: 780325 Remainder of KRUGER NATIONAL PARK NORTH No. 449-MT -****_____ DANGEROUS GAME FENCE Refuse Site GENERATORS [______ Tennis Court road





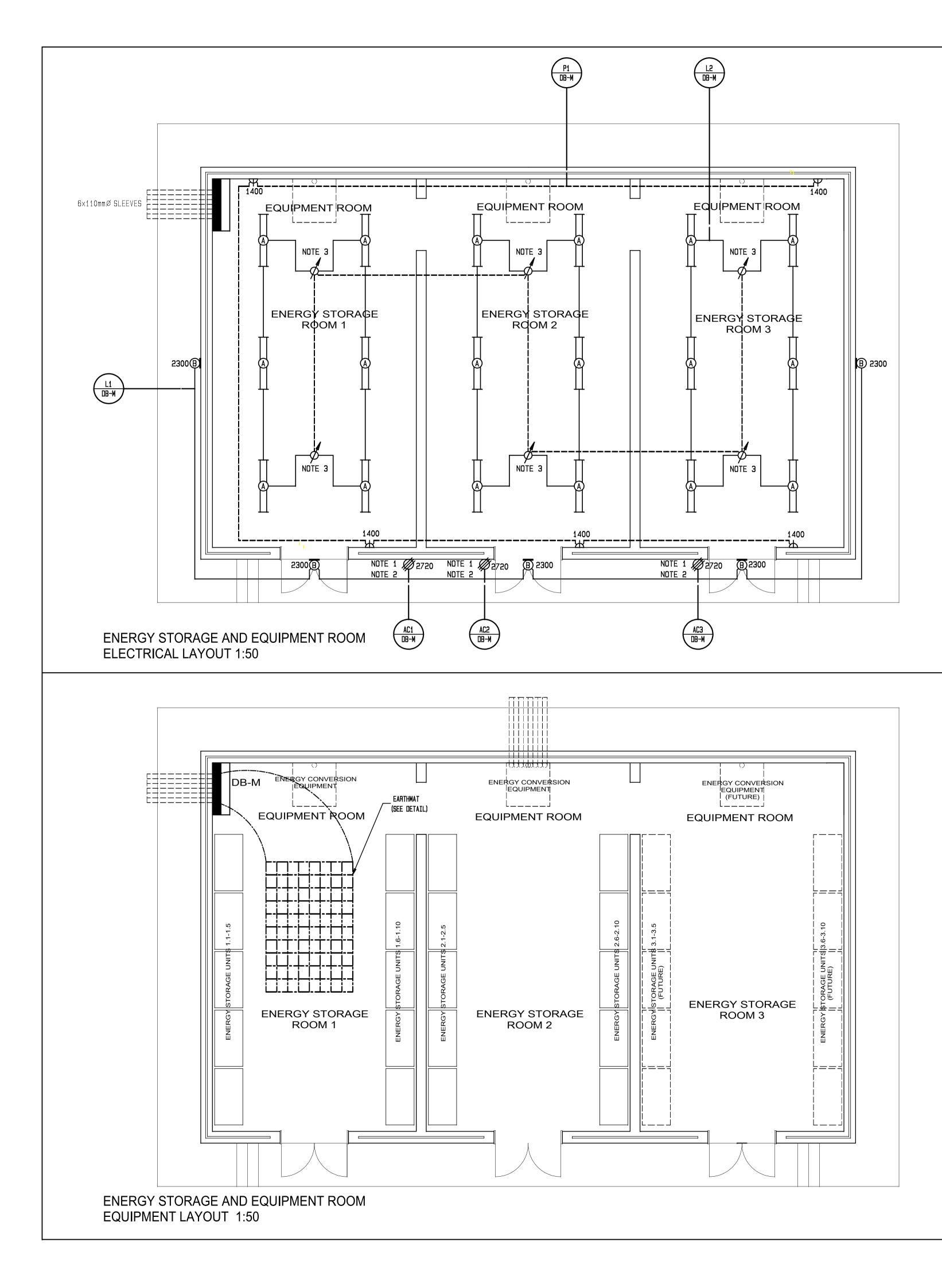


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	A3 A4	16-05-'18 11-06-'19		M de KOCK M de KOCK
PV INVERTER	A5	14-08-'23	ARRAYS 14, 15 & 16 ADDED	CJ LOURENS
FUTURE PV INVERTER				
3m HIGH INTERNAL SECURITY FENCE				
<u>EXISTING DANGEROUS</u> GAME FENCE				
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DESCRIPTION	REMARKS	SYMBOL	description	
ASE AND TRIM RING IS MANUFACTURED OF AST ALUMINIUM (EN 1706 AC-44300). AST ALUMINIUM (EN 1706 AC-44300). AS MOUNTED ONTO THE BASE CASING BY ASEL M5 ALLEN HEAD SCREWS, LOCATED ARTMENT. THE BASE AND TRIM ARE WODER COATING. AN OPAL NON-DISCOLOURING MOULDED DIFFUSER IS USED THROUGHOUT THE EXCELLENT VANDAL RESISTANCE, BE HIGHLY NOT DISCOLOUR EVEN WHEN SUBJECTED TO DOMENTS. A SILICONE SPONGE GASKET SHALL AL GROOVE IN THE DIFFUSER TO PREVENT DURING INSTALLATION AND TO ACHIEVE THE TECTION RATING OF IP65. ALL INTERCONNECTING ATED. IT SHALL BE DESIGNED TO OPERATE LEDS ATED. IT SHALL BE DESIGNED TO OPERATE LEDS IT FITTING MUST IN GENERAL COMPLY WITH THE ATION FOR BULKHEAD LUMINAIRES FOR INTERIOR TON.	THE LUMINAIRE SHALL BEAR THE SABS MARK SANS 60598 AND SANS 1464-22. THE LUMINAIRE SHALL BE IP65 WITH A LIGHT COLOUR OF 4000K. THE CONTROL GEAR SHALL BE CONSTANT CURRENT DRIVER (LED) ECG (FL) WITH 10KV SURGE PROTECTION. THE LUMINAIRE WILL BE 230V AC RATED.	С	THE POLE MOUNTED LUMINAIRE DESIGNED FOR OPTIMIZED PERIMETER LIGHTING. LUMINAIRE CONSIST OF A SPIGOT BASE COMPARTMENT AND HINGED LED ENGINE TOP CASING. THE HINGED DESIGN ALLOWS THE EASY INSTALLATION OF THE LED ENGINE AND THE STAINLESS-STEEL LATCHES ALLOWS FOR EASY CLOSURE ACHIEVING THE IP65 WATER INGRESS PROTECTION OF THE ELECTRONIC COMPONENTS. THE DESIGN CAN OPERATE LEDS UP TO 53W. THE LUMINAIRE SHALL BE SUPPLIED AND INSTALLED WITH 6M MOUNTING HEIGHT (6.9 OVERALL LENGTH). THE LIGHT FITTING MUST IN GENERAL COMPLY WITH THE DEPARTMENT'S SPECIFICATION FOR SECURITY LUMINAIRES FOR PRISON APPLICATION AND THE POLE WITH THE DEPARTMENT'S STANDARD SPECIFICATION FOR FIBRE GLASS REINFORCED POLYESTER LIGHTING POLES.	THE LUMI AND THE THE LUMI COMPLIES LED COMP THE IP R

ELECTRICAL SYMBOLS	No. DATE AMENDMENT D.P.W
EXISTING SECURITY LIGHT	A2 02-11-'17 GENERAL SITE LAYOUT AND LIGHT SCHEDULE REVISED M de KOC A3 16-05-'18 YEAR 2000 FLOOD LEVEL ADDED AND LIGHT FITTING SCHEDULE M de KOC
NEW SECURITY LIGHT RELOCATED SECURITY LIGHT	A4 11-06-'19 ARRAY LAYOUT REVISED M de KOC A5 14-08-'23 PROJECT DESCRIPTION REVISED CJ LOUREN
NEW SECURITY LIGHT CABLE	
1.5 JONEL JUNE SOLUTIVE LIGHT CABLE 1.5 JONEL JUNE SOLUTION OF THE SOLUTION	Copyright vests in the Department of Public Works as-built drawings certified as-built drawings as per Centralised Drawing Archive AS-BUILT DRAWING REQUIREMENTS name: date: professional registration no.: cad file name page type EE10492/01-04/A5 A 1
	DIRECTOR-GENERAL MR. MZIWONKE DLABANTU
sign Leader gineer	consultant Image: Second Stress Image: Second Stress
REMARKS INAIRE SHALL BEAR THE SANS 475 PERFORMANCE MARK SANS 60598-2-3 SAFETY MARK. INAIRE SHALL HAVE A DEGREE OF PROTECTION THAT S WITH SANS 60598-2-3. PARTMENT: IP66 RATING IS SUPPORTED BY A CERTIFIED TEST REPORT.	service PAFURI LAND PORT OF ENTRY (LPOE): SUPPLY AND INSTALLATION OF SOLAR PANEL AND WASTE WATER FACILITY WCS number 052476 drawing title SITE PLAN: SOLAR ARRAY SITE SECURITY LIGHT LAYOUT designed M de KOCK grave designed M de KOCK drawn Draftplan designed M de KOCK
	DPW drawing number EE10492/01-04/A5



ELECTRICAL NOTES:

1. ISOLATOR TO BE RATED IP65

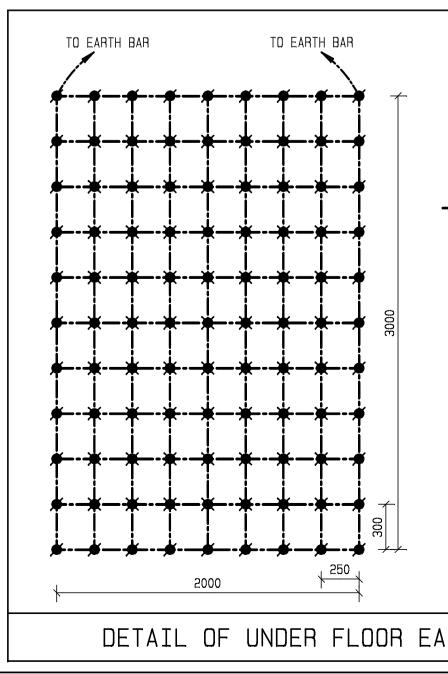
FOR SURFACE MOUNTING.

2. ISOLATOR TO BE MOUNTED WITHIN

1000mm OFF EQUIPMENT TERMINALS. 3. OCCUPANCY SWITCH TO BE SUITABLE

Approved by Design Leader Johann Erwee Professional Engineer ECSA: 780325

	SCHEDULE OF LIGHT FITT	INGS
SYMBOL	DESCRIPTION	
A	THE LUMINAIRE CONSISTS OF AN INJECTION-MOULDED, FLAME RETARDANT POLY CARBONATE HOUSING AND PRISMATIC DIFFUSER. THE POWDER COATED WHITE REFLECTOR AND CONTROL GEAR TRAY, UPON WHICH ALL ELECTRICAL COMPONENTS ARE MOUNTED, ARE SECURED BY MEANS OF MULTIPLE TWIST LOCK LATCHES TO SECURE THE REFLECTOR TO THE HOUSING. THE SILICONE SPONGE SEAL IS MOULDED INTO THE HOUSING TO ENSURE AN OPTIMAL SEAL BETWEEN THE HOUSING AND THE PRISMATIC DIFFUSER. TWO OF THE STAINLESS-STEEL LATCHES FACILITATE THE HINGING OF THE DIFFUSER AND ENSURE CORRECT ALIGNMENT WHEN CLOSING THE DIFFUSER. IT MUST BE DESIGNED TO OPERATE 40W LEDS. THE LIGHT FITTING MUST IN GENERAL COMPLY WITH THE DEPARTMENT'S SPECIFICATION FOR TUBULAR FLUORESCENT LUMINAIRES FOR INTERIOR APPLICATION.	THE LUMINA SANS 1464- THE LUMINA THE CONTRO (LED) ECG THE LUMINA
В	THE LINEAR LUMINAIRE BASE AND TRIM RING IS MANUFACTURED OF A HIGH-PRESSURE DIE-CAST ALUMINIUM (EN 1706 AC-44300). THE TRIM RING CASING IS MOUNTED ONTO THE BASE CASING BY MEANS OF STAINLESS STEEL M5 ALLEN HEAD SCREWS, LOCATED OUTSIDE THE LAMP COMPARTMENT. THE BASE AND TRIM ARE FINISHED WITH EPOXY POWDER COATING. AN OPAL NON-DISCOLOURING HIGH IMPACT INJECTION MOULDED DIFFUSER IS USED THROUGHOUT THE RANGE. IT SHALL OFFER EXCELLENT VANDAL RESISTANCE, BE HIGHLY TRANSLUCENT AND SHALL NOT DISCOLOUR EVEN WHEN SUBJECTED TO THE HARSHEST UV ENVIRONMENTS. A SILICONE SPONGE GASKET SHALL BE FITTED INTO A SPECIAL GROOVE IN THE DIFFUSER TO PREVENT DAMAGE TO THE GASKET DURING INSTALLATION AND TO ACHIEVE THE CERTIFIED INGRESS PROTECTION RATING OF IP65. ALL INTERCONNECTING WIRING IS TEFLON INSULATED. IT SHALL BE DESIGNED TO OPERATE LEDS OF UP TO 20W. THE LIGHT FITTING MUST IN GENERAL COMPLY WITH THE DEPARTMENT'S SPECIFICATION FOR BULKHEAD LUMINAIRES FOR INTERIOR AND EXTERIOR APPLICATION.	THE LUMINA SANS 1464- THE LUMINA THE CONTRO (LED) ECG THE LUMINA
С	THE POLE MOUNTED LUMINAIRE DESIGNED FOR OPTIMIZED PERIMETER LIGHTING. LUMINAIRES CONSIST OF A SPIGOT BASE COMPARTMENT AND HINGED LED ENGINE TOP CASING. THE HINGED DESIGN ALLOWS THE EASY INSTALLATION OF THE LED ENGINE AND THE STAINLESS-STEEL LATCHES ALLOWS FOR EASY CLOSURE ACHIEVING THE IP65 WATER INGRESS PROTECTION OF THE ELECTRONIC COMPONENTS. THE DESIGN CAN OPERATE LEDS UP TO 53W. THE LUMINAIRE SHALL BE SUPPLIED AND INSTALLED WITH 6M MOUNTING HEIGHT (6.9 OVERALL LENGTH). THE LIGHT FITTING MUST IN GENERAL COMPLY WITH THE DEPARTMENT'S SPECIFICATION FOR SECURITY LUMINAIRES FOR PRISON APPLICATION AND THE POLE WITH THE DEPARTMENT'S STANDARD SPECIFICATION FOR FIBRE GLASS REINFORCED POLYESTER LIGHTING POLES.	THE LUMINA AND THE SA THE LUMINA COMPLIES W LED COMPAR THE IP RAT



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WALL MOUNTED LIGHT FITTING	A3 A4 A5	19-06-'19 14-08-'23	1 x AC1 ISOLATOR REMOVED	M de KOCK
• LIGHT SWITCH	A3	14-00-23	PROJECT DESCRIPTION REVISED	
OCCUPANCY SWITCH				
- (15A 3 PIN SSD				
THREE PHASE OUTLET 30A THREE POLE ISOLATOR				
SINGLE PHASE OUTLET 30A				
DOUBLE POLE ISOLATOR INDICATES SWITCHING				
INDICATES CIRCUIT				
SLEEVE PIPE				
L9 DB-LG CIRCUIT INDICATOR				
<u> </u>				
REMARKS				
WAIRE SHALL BEAR THE SABS MARK SANS 60598 AND 1–22.				
WAIRE SHALL BE IP65 WITH A LIGHT COLOUR OF 4000K.				
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SCHEMATIC DIAGRAM PROJECT : PAFURI L		TRY			EXT	E: FACE MOUNTED ERNAL COLOUR:		S LOCKS ON DO	DRS: NO FAU YES COLDUR OF EME FACIA PANEL:	CIA PANELS: S ERGENCY	FACIA PANEL	NO 'S	SCHEMATIC DIAGRAM PROJECT : PAFURI		̈́ΠΥ		TYPE: EXTERNAL	ROOT MOUNTED (PLANTED IN G COLOUR: C ORANGE	ROUND) DOON		ON DOORS: YES FACIA COLOUR C RANGE FACIA PA	FACIA PANE YES FEMERGENCY	FACIA COLOUR	PANEL: N R OF UPS
IPMENT NTITIES ATORS: A 3 POLE : 1 UIT BREAKERS: A 3 POLE : 1 A 1 POLE : 3 A 1 POLE : 1 H LEAKAGE ISOLATOR 1 PHASE : 1 ACTORS: 3 POLE AC3 : 1 E ARRESTORS:		= 5kA		20 0	20 1	$\frac{\text{CTRIC ORANGE}}{20}$	20 1	Ŧ	80 0		FACIA PANEL	-	EQUIPMENT QUANTITIES ISOLATORS: 80A 3 POLE : 1 CIRCUIT BREAKERS: 30A 3 POLE : 2 SURGE ARRESTORS: 3 PHASE + N : 1SET KWh METER : 1	BUSBAR RATING FAULT LEVEL	= 5kA 805, 30 kWh	30 30 30 3 3 3 3	LLECTRI	<u>CORANGE</u>	PANEI	<u>.: ELECTRIC O</u>	<u>RANGE FACIA PA</u>	NEL: N/A	FACIA	PANEL:
PHASE + N : 1SET METER : 1 I C/B REF.				QF	QF	QF	QF	×3 GF GF	kWh QF		x6 x1	J 	CBI C/B REF.						(ex)					
IRCUIT NO.	MAIN INCOMER FROM POWER CONVERSION EQUIPMENT	87 55 53 55	NTROL	EXTERNAL	L2	PLUGS PARE	SPARE SPARE AIRCON 1		E PACKAGE S		SPARE		CIRCUIT NO.		<u>S</u>	3 PUMP 1 3 PUMP 2			SPARE					
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CHEMATIC DIAGRAM ROJECT : PAFURI L QUIPMENT JANTITIES SOLATORS: 250A 3 POLE : 1 IRCUIT BREAKERS: 150A 3 POLE : 1 40A 3 POLE : 2 80A 3 POLE : 1 30A 1 POLE : 2 JRGE ARRESTORS: 3 PHASE + N : 1SET		= 250A = 5kA 2508 3 0	50 40 50 3 3 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5	EX	TERNAL COLO		COLOUR OF	S LOCKS ON DO NORMAL FACIA ECTRIC ORANGE	DRS: YES YES YES COLOUR OF EME FACIA PANEL:	ERGENCY	FACIA PANEL COLOUR OF U FACIA PANEL	ND PS N/A												
							×9																	
CBI C/B REF. CIRCUIT NO.																								
IDENTIFICATION		M-BC				K4	SPARE																	
Cable Size & no. of Cores CONDUIT DIA		REFER TO CABLE SCHEDULE	TD EXISTING	TO EXISTING	EXISTING	E SCHEDULE																		

Approved by Design Leader Johann Erwee Professional Engineer ECSA : 780325

SCHEMATIC	DIAGRAM SYMBOL LIST
SYMBOL	DESCRIPTION
	BUSBAR
	ISOLATOR WITH RATING AND No OF POLES
	CIRCUIT BREAKER WITH RATING AND No OF POLES
	EARTH LEAKAGE ISOLATOR WITH RATING AND No OF POLES
C1 	CONTACTOR
Ť	SURGE ARRESTOR
	DOTTED LINES INDICATES SPARES / FUTURE EQUIPMENT

No.	DATE	А	MENDMENT	D.P.W.
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A3 A4	19-06-'19 14-08-'23		VISED. K4 ADDED SCRIPTION REVISED	M de KOCK CJ LOURENS
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