

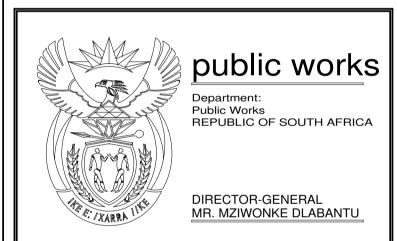
PAFURI LAND PORT OF ENTRY (LPOE): SUPPLY AND INSTALLATION OF SOLAR PANEL AND WASTE WATER FACILITY WCS 052476

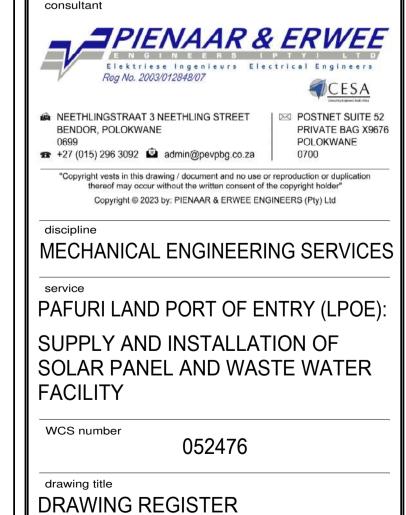
MECHANICAL ENGINEERING SERVICES

NO.	DESCRIPTION.	DRAWING NO.
1.	LIST OF DRAWINGS	ME10492/00/01/A3
2.	MECHANICAL : ENERGY STORAGE & EQUIPMENT ROOM - VENTILATION DETAILS	ME10492/ACV/01/A6
3.	FIRE : ENERGY STORAGE & EQUIPMENT ROOM - FIRE SIGNAGE & PROTECTION	ME10492/FPE/01/A3

A2 06-08-'19 DRAWING REGISTER REVISED TO SUIT REVISIONS	A2 06-08-'19 DRAWING REGISTER REVISED Mod TO SUIT REVISIONS A3 14-08-'23 PROJECT DESCRIPTION REVISED AND DRAWING REGISTER REVISED TO
A3 14-08-'23 PROJECT DESCRIPTION REVISED AND DRAWING REGISTER REVISED TO	A3 14-08-'23 PROJECT DESCRIPTION REVISED AND DRAWING REGISTER REVISED TO
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ME10492/00/A3





ref.no. 6022/0079/20B

date 04 / 07 / 2019

DPW drawing number

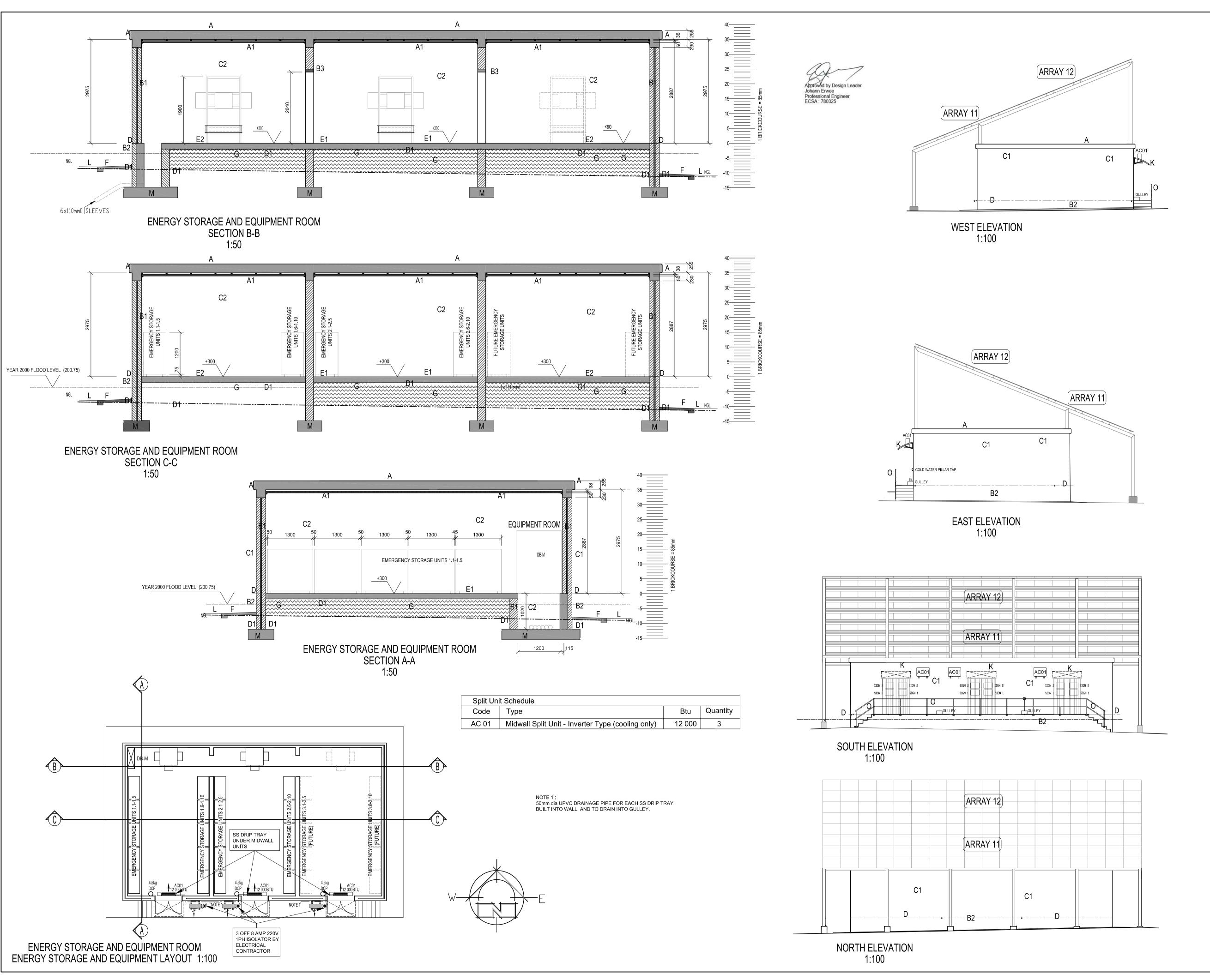
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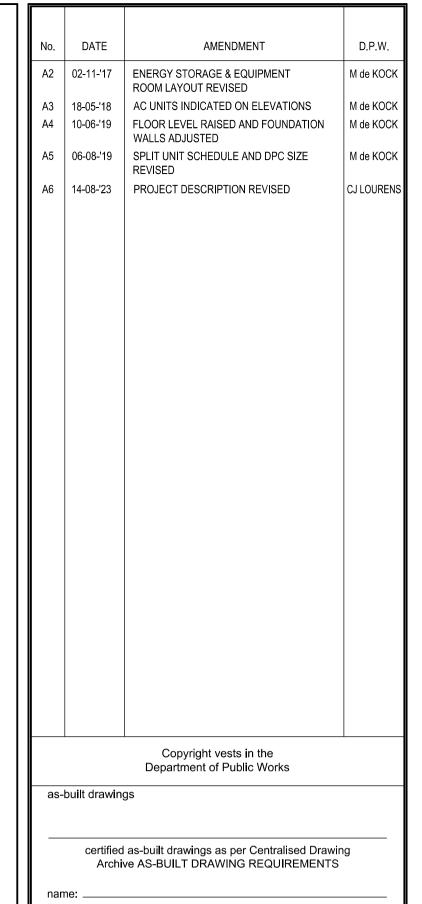
^{designed} M de KOCK

drawn Draftplan

checked M de KOCK

ME10492/00/A3

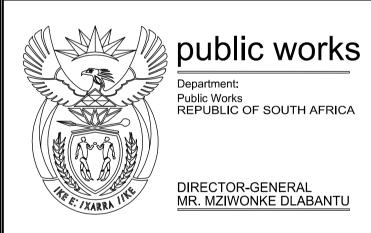




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MECHANICAL ENGINEERING SERVICES

PAFURI LAND PORT OF ENTRY (LPOE):

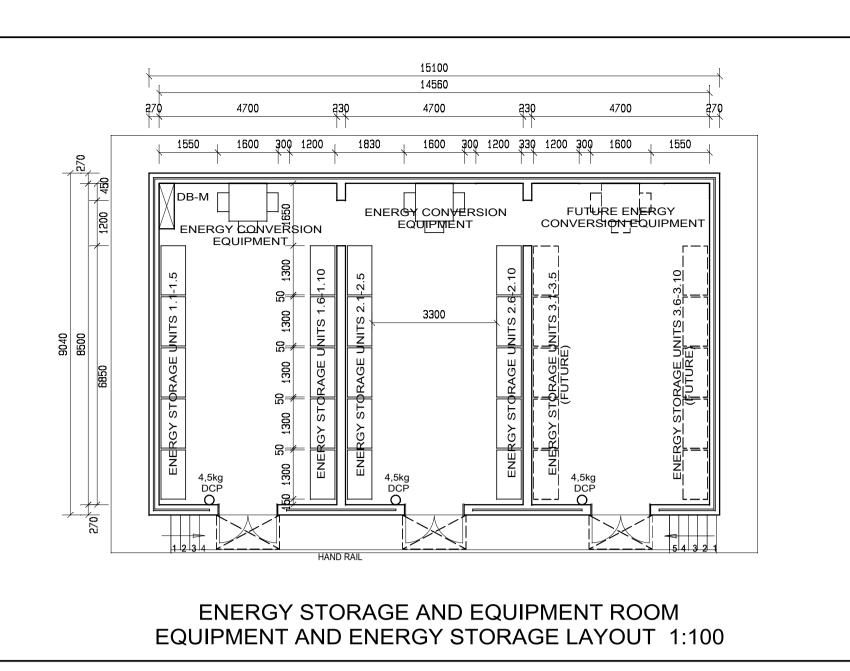
SUPPLY AND INSTALLATION OF SOLAR PANEL AND WASTE WATER FACILITY

WCS number 052476

ENERGY STORAGE & EQUIPMENT ROOM:
VENTILATION DETAILS

ref.no. 6022/0079/20B	designed M de KOCK
^{scale} SHOWN	drawn Draftplan
^{date} 12 / 03 / 2014	checked M de KOCK
DPW drawing number	

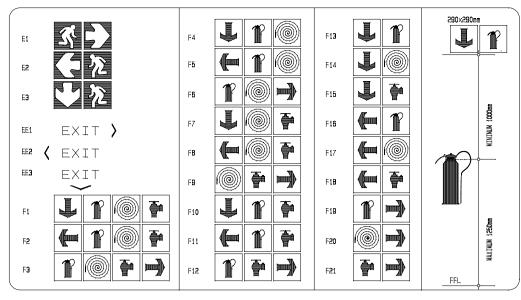
ME10492/ACV/01/A6



NOTES ON FIRE PROTECTION:

- 1. FIRE HYDRANTS, FIRE HOSE REELS AND FIRE EXTINGQUISHERS ALL ACCORDING TO SANS 0400 SECTIONS TT34, TT35 AND TT37 IN POSITIONS
- AS INDICATED.

 2. ALL FIRE FIGHTING EQUIPMENT AND ESCAPE
 ROUTES TO BE CLEARLY INDICATED WITH SABS
 APPROVED SIGNAGE IN ACCORDANCE WITH
 SANS 0400 SECTION TT.
- 3. FOR GENERAL LAYOUT REFER TO FLOOR AND SERVICE PLANS.



-FIRE EXTINGUISHERS : 1× 9kg DCP PER 400sq m.

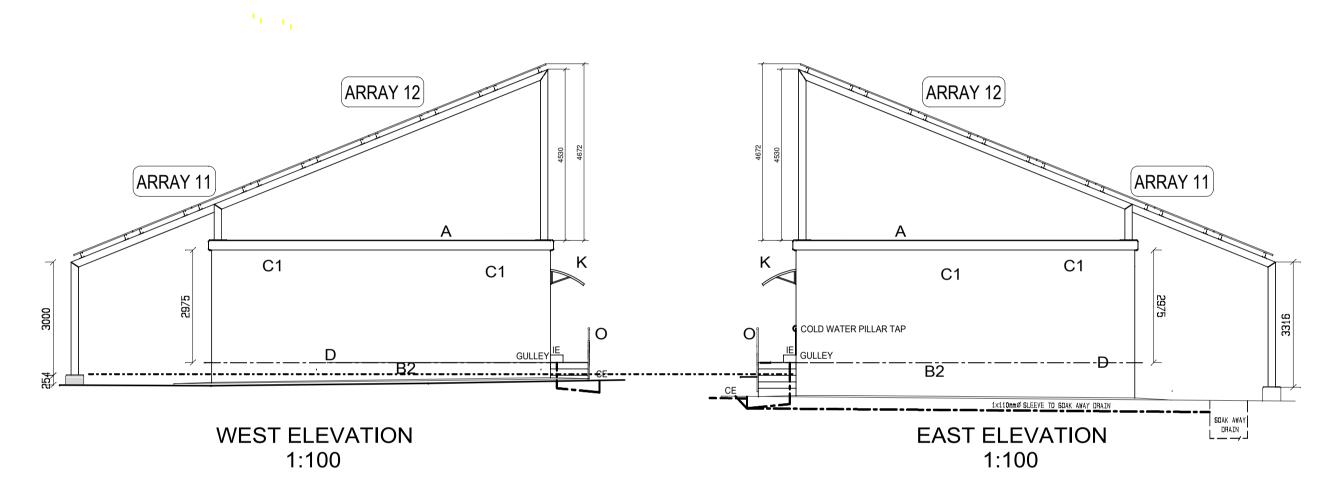


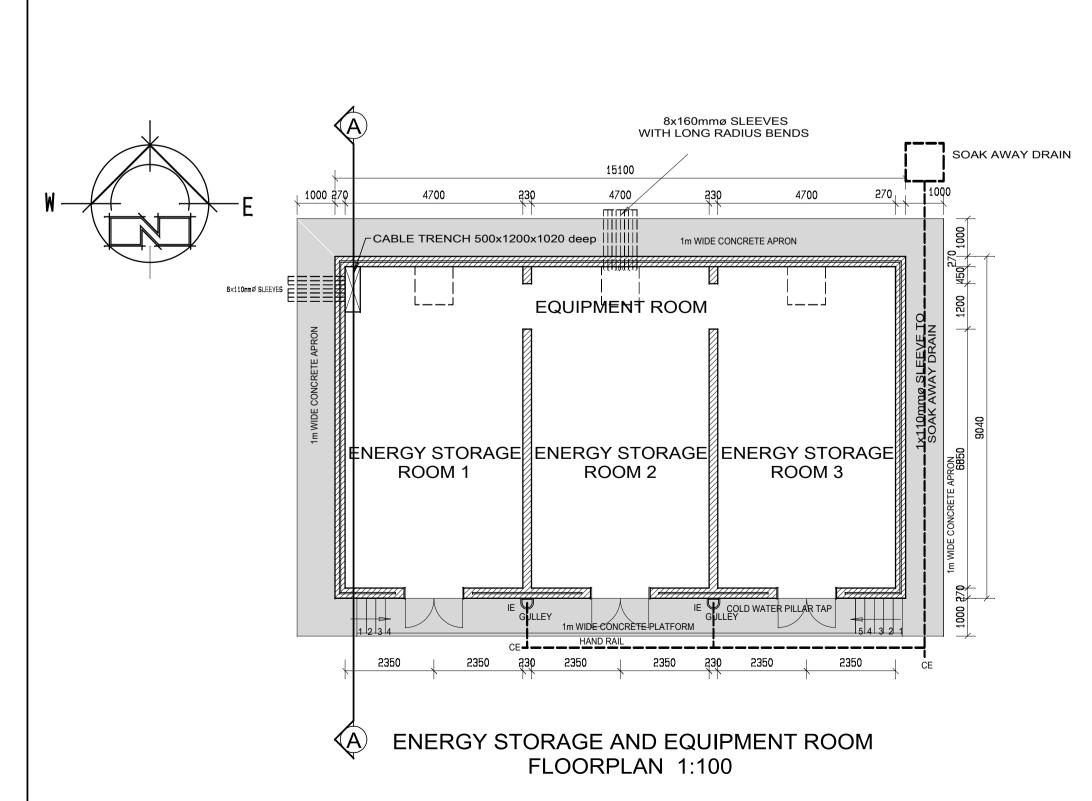
ALL SIGNS IN ACCORDANCE WITH SANS AND ISO STANDARDS

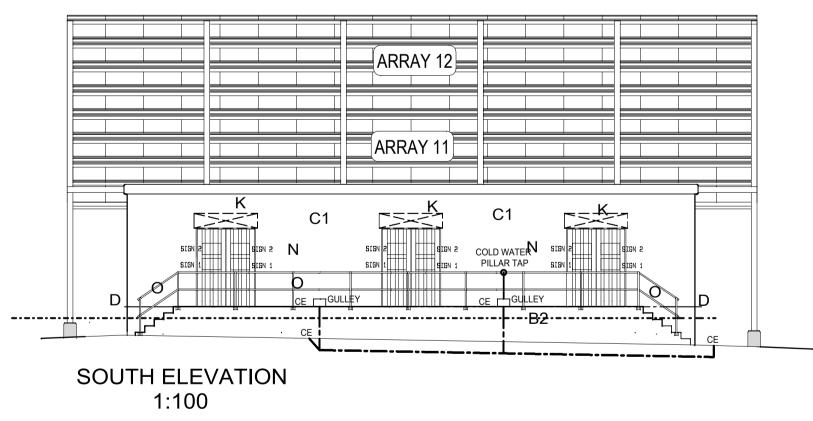
SIGN 2 (WW7) 725x290

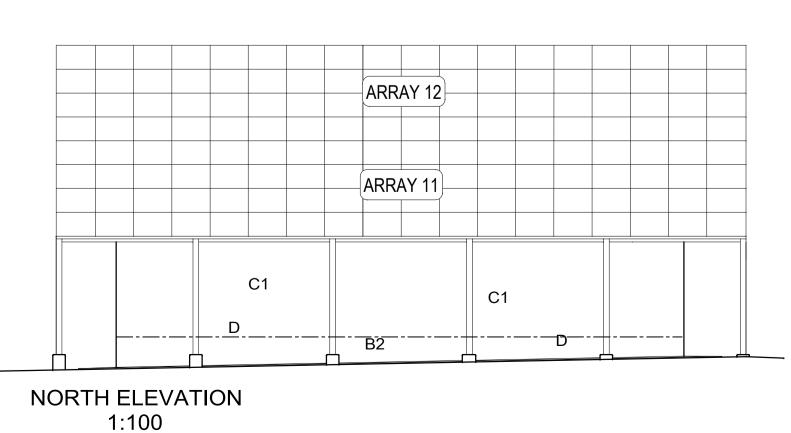


ALL SIGNS IN ACCORDANCE WITH SANS AND ISO STANDARDS









Approved by Design Leader Johann Erwee Professional Engineer ECSA: 780325

CONSTRUCTION NOTES

- A. 255mm THICK CONCRETE ROOFSLAB AS PER
 STRUCTURAL ENGINEER DESIGN AND DETAIL. ENTIRE EXTERNAL
 AREA OF ROOFSLAB,OVERHANGS AND UNDERSIDE OF OVERHANGS
 TO BE PAINTED / TREATED WITH MCC MULTI HYSEAL 210/211 SLURRY
 IN GREY COLOUR
- A1. 50mm THICK LAMDABOARD CONCEALED CLIP CEILING DIRECTLY BELOW CONCRETE ROOF SLAB. INSTALLED ON 38x38 SAP BRANDRINGS @ 700cc max. WITH PERIMITER BARANDERINGS. CEILING TO RECEIVE STANDARD HIGH DENSITY POLYSYRENE 80 WIDE CORNICES FIXED VIA ALCOLIN CORNICE ADHESIVE. CEILING INSTALLATION IN ACCORDANCE WITH LAMDABOARD INSTALLATION SPECS & GUIDELINES. AN 'R VALUE' OF 3.25m/sq. K/W MUST BE ACHIEVED. CEILING PAINTED WITH 1 x COAT UNDER COAT SUITABLE FOR CEILINGS AND 2 x COATS INTERIOR PVA PAINT. (SIMILAR OR EQUAL TO DULUX CEILING WHITE)
- B1. 270mm CAVITY CLAY BRICK WALL (SABS APPROVED) IN STRECHER BOND @ 85mm BRICK LAYERS, WITH 25mm THICK LAMDABOARD INSULATING BOARD BUILT INTO CAVITY. WALL INSULATION TO ACHIEVE A 'R VALUE' OF 1.6m/sq. K/W.
 STANDARD BRICKFORCE & WALLTIES TO BE BUILT INTO EVERY 4th LAYER & IN ACCORDANCE WITH ISOBAORD GUIDE LINE FOR
- EXTERNAL WALLS TO RECEIVE PLASTER (C1 & C2)

 B2. ALL VISIBLE WALLS BELOW DPC (PLINTH WALLS) TO BE SEMI FACE BRICK IN STRECHER BOND @ 85mm BRICK LAYERS, WITH STANDARD BRICKFORCE BUILT INTO EVERY 4th LAYER. ALL VERTICAL AND
- HORIZONTAL JOINTS TO BE RAKED AND JOINTED 10mm DEEP.
 B3. 2xCONCRETE LINTOLS OVER ALL OPENINGS 1m AND WIDER.
 C1. 20mm THICK PLASTER. WOOD FLOATED AND PAINTED WITH
 1 x COAT UNDER COAT SUITABLE FOR EXTERNAL WALLS AND
 2 x COATS EXTERIOR PVA PAINT. (SIMILAR OR EQUAL TO

CAVITY WALL CONSTRUCTION, BOTH INTERNAL AND

- DULUX WEATHERGAURD LA CASA)

 C2. 20mm THICK PLASTER. STEEL FLOATED AND PAINTED WITH

 1 x COAT DULUX TRADE BONDING LIQUID, AND 1 x COAT

 UNDER COAT SUITABLE FOR INTERNAL WALLS.

 2 x COATS ENAMEL PAINT. (SIMILAR OR EQUAL TO
- DULUX TRADE ENAMEL WHÌTE).

 D. 1 LAYER BRICKGRIP SABS 375 MICRON PVC DAMP COURSE
 OVERLAP 300 AT JOINTS 40mm UNDER ALL WALLS.
- D1. 250 MICRON USB TYPE GUNDLE PVC (GREEN) MEMBRANE UNDER ENTIRE FLOOR SLAB AND VERTICALLY AGAINST FOUNDATION WALLS
- (OVERLAPS MIN 300mm)
 E1. 150mm THICK FLOORSLAB AS PER STRUCTURAL ENGINEER DESIGN
 IN EQIPMENT AREA AND BATTERY ROOMS.FLOOR TO BE FINISHED
- IN EQIPMENT AREA AND BATTERY ROOMS.FLOOR TO BE FINISHED WITH PLASTERED SKIRTING 100mm HIGH.

 E2. ALL INTERNAL FLOORS TO BE PREPARED AND TREATED TO RECEIVE AN EPOXY FLOOR COATING AS PER MANUFACTURER SPEC.
- EPOXY COATING SIMILAR OR EQUAL TO DULUX TRADE TUFFCOTE WB EPOXY IN LIGHT GREY.

 F. 1000mm WIDE CONCRETE APRON WITH TOE. (WOOD FLOAT FINISH)

 G. SELECTED HARDCORE FILLING WELL WETTED AND COMPACTED TO ENGINEE
- G. SELECTED HARDCORE FILLING WELL WETTED AND COMPACTED TO ENGINEERS SPEC. ENTIRE FLOOR AND FOUNDATIONS AREA TO BE TREATED WITH A SABS APPROVED ANT AND WEED POISON.
- H. CONCTRETE FOUNDATIONS AS PER ENGINEER
 J. DOORS AS PER SHEDULE
 K. REBOSS TYPE P-SERIES 1200mm DEEP x 1500mm WIDE ALUMINIU
- K. REBOSS TYPE P-SERIES 1200mm DEEP x 1500mm WIDE ALUMINIUM FRAMED AWNINGS OVER ALL DOORS. FITTED AS PER MANUFACTURER SPEC
 L. 25mm PEBBLE STONE 50mm THICK
- M. FOUDATIONS AND FOUNDATION WALLS AS PER STRUCTURAL ENGINEER
 N. STANDARD PRECAST CONCRETE GULLEYS WITH GULLEY TRAP AND GRID. 1x110mmdia UNDERGROUND UPVC PIPING WITH Y-CONNECTIONS TO SOAK AWAY DRAIN.
 O. INDUSTRIAL TYPE HANDRAIL - SIMILAR OR EQUAL TO MACSTEEL INTER-LINK
- O. INDUSTRIAL TYPE HANDRAIL SIMILAR OR EQUAL TO MACSTEEL INTER-LINK HANDRAIL SYSTEMS. BALL TYPE STANCHIONS (MS90 & MSR35) AND PIPE RAILINGS. ENDS OF RAILINGS PLUGGED WITH RUBBER PLUGS (ITEM 10). STANCHIONS FIXED TO STAIR AND PLATFORM VIA CHEMICAL ANCHORS. HANDRAIL PRIMED AND PAINTED SIMILAR TO DOOR FINISH.

NOTE: STANDARD 25mm BRASS PILLAR TAP WITH GALVANISED PIPE UP STAND SADDLED TO WALL, WATER SUPPLY VIA 25mm HDP PVC PIPE AS DETERIMED ON SITE

NOTE : 110mm dia DRAINAGE SLEEVE UNDER BUILDING TO BE ENCASED IN 350x350 CONCRETE AND TO EXTEND TO 1000mm BEYOND BUILDING EDGE.

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		A2	05-08-'19	FIRE EXTINGUISHERS SPECIFICATION REVISED	M de KOCK		
		А3	14-08-'23	PROJECT DESCRIPTION REVISED	CJ LOURENS		
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AMENDMENT

D.P.W.

No. DATE

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discipline
MECHANICAL ENGINEERING SERVICES

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service
PAFURI LAND PORT OF ENTRY (LPOE):

SUPPLY AND INSTALLATION OF SOLAR PANEL AND WASTE WATER FACILITY

WCS number 052476

ENERGY STORAGE & EQUIPMENT ROOM:

FLOOR PLANS, ELEVATION & DETAILS FIRE SIGNAGE AND PROTECTION EQUIPMENT

ref.no. 6022/0079/20B

scale SHOWN

date 12 / 03 / 2014

DPW drawing number

designed M de KOCK

drawn Draftplan

checked M de KOCK

ME10492/FPE/01/A3