P3
Y= +10210.460
X= +3153698.329

P4
Y= +9662.999
X= +3153815.854

P2
Y= +10327.012
X= +-3154285.168

P1
Y= +13704.260
X= +3154394.008

COMPOSITE WASTE CONSTRUCTION WASTE

1% FALL

ø110mm DRAINEX @ 1:200 MIN SLOPE

ø200mm COLLECTOR DRAINEX @ 1:200 MIN SLOPE

WASTE TERRENCIN

CLEAN WATER DIVERSION CHANNEL

339 416mm

238 716mm

320 012mm

81 310mm

WATER AND SEWER
TO TIE IN TO MUNICIPAL SUPPLY

LEAKAGE DETECTION COLLECTION TANK

LEACHATE COLLECTION TANK

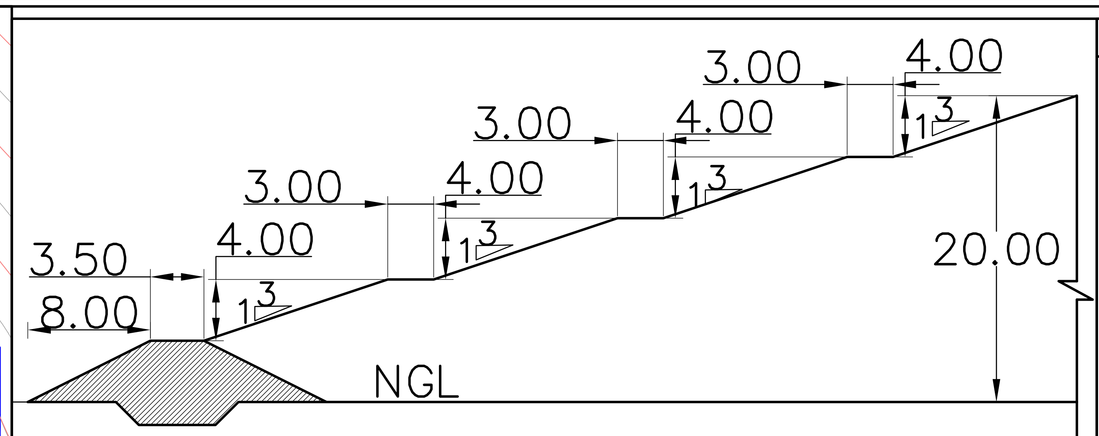
WEIGH BRIDGE

SCALE HOUSE

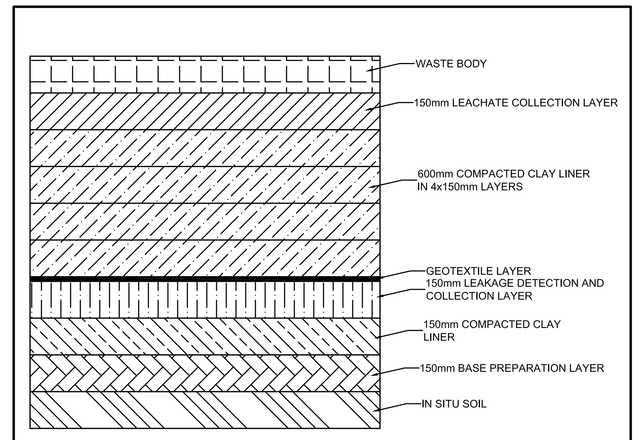
OFFICES

BUY BACK CENTRE RECYCLING & SORTING

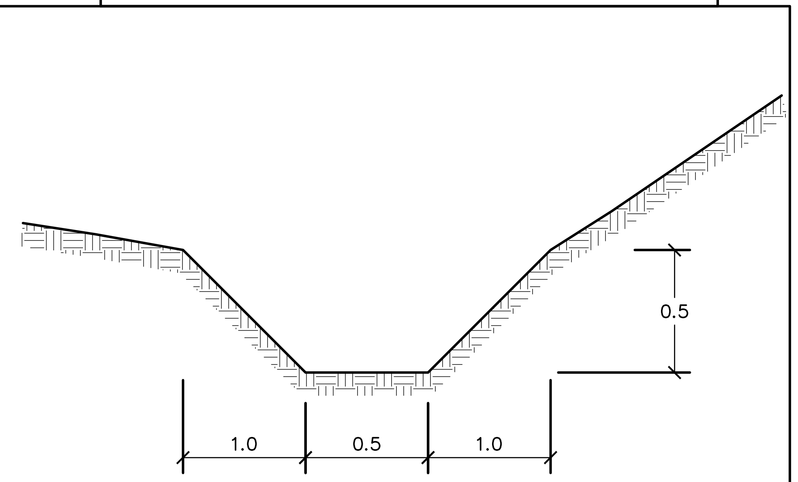
GUARD HOUSE



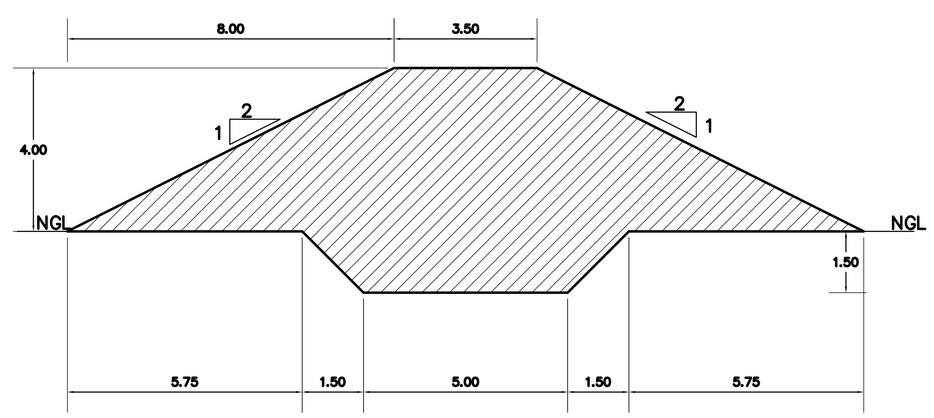
CONTAINMENT WALL WITH
TYPICAL TERRACING DETAIL
SCALE NTS



LINER DETAIL
SCALE NTS



CLEAN WATER DIVERSION
EARTH CHANNEL
SCALE : NTS



CONTAINMENT WALL TYPICAL DETAIL
SCALE NTS

140602 - 001 | 00

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR APPROVAL

CLIENT:

CONSULTANT:

ADDRESS:

25 Northpoint
275 Northridge road, Morningside
4001 Durban

ARCHITECT: E.T

ARCHITECT'S SIGNATURE:

PROJECT:

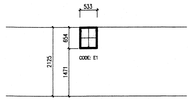
PROPOSED
LANDFILL AND WASTE MANAGEMENT
SITE THE QWAQWA LOCAL
MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:

LAND FILL SITE
WORKING DRAWINGS
LANDFILL LAYOUT& CONSTRUCTION DETAILS

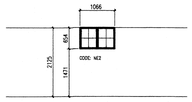
SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	T.M
DRAWN BY:	K.G
DRAWING NO:	140602 - 001
REVISION:	03

W 01



No. REQ.	10
POSITION	ABLUTIONS
FRAME	STANDARD STEEL RESIDENTIAL OPEN OUT TYPE COTTAGE PANE WITH BURGLAR BARS AS DUROWIN E1 OR APPROVED
FRAME FINISH	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME
GLAZING	4MM OBSCURED GLASS
IRONMONGERY	STANDARD TO SPECIFIED WINDOW TYPE, TO BE SUPPLIED WITH FRAME

W 02



No. REQ.	03
POSITION	ABLUTIONS
FRAME	STANDARD STEEL RESIDENTIAL OPEN OUT TYPE COTTAGE PANE WITH BURGLAR BARS AS DUROWIN E1 OR APPROVED
FRAME FINISH	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME
GLAZING	4MM OBSCURED GLASS
IRONMONGERY	STANDARD TO SPECIFIED WINDOW TYPE, TO BE SUPPLIED WITH FRAME

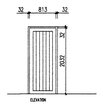
DOOR SCHEDULE

D1

HAND:– LEFT HAND – RIGHT HAND –

NUMBER REQUIRED	09
POSITION	ABLUTIONS
DOOR TYPE	TOILET/SHOWER CUBICLE DOOR
DOOR DESCRIPTION	813X2032x32mm HOLLOW CORE FLUSH SINGLE SWING DOOR TO COMPLY WITH SABS 727.
DOOR FRAME	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME TO TAKE 2032X813mm DOOR. FRAME FOR 110mm WALL.
HINGES	1 PAIRS OF HEAVY DUTY BRASS PARLIAMENT HINGES
IRON MONGERY	INDICATOR BOLT UNION AL8730 + AS – DOOR STOP
FRAME FINISH	1 COAT WOOD PRIMER, 1 UNDERCOAT, 2 COATS VELVAGLO PAINT, ALL TO ARCHITECTS SPEC.
BUILD IN METHOD	BUILD INTO BRINOWORK AS PER MANUFACTURER'S SPECS. BACK OF FRAME TO BE SOLID FILLED WITH MORTAR

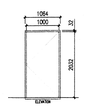
D2



HAND:– LEFT HAND – RIGHT HAND –

NUMBER REQUIRED	02
POSITION	ABLUTION MALE & FEMALES
DOOR TYPE	EXTERNAL DOOR
DOOR DESCRIPTION	813X2032x32mm LEDGE AND BRACED MERANTI HARDWOOD SINGLE SWING DOOR TO COMPLY WITH SABS 727.
DOOR FRAME	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME TO TAKE 2032X813mm DOOR. FRAME FOR 220mm WALL.
HINGES	2 PAIRS OF HEAVY DUTY BRASS HINGES
IRON MONGERY	UNION CODE 2232/-76 SC – THREE LEVEL LOCK, UNION 6022 + 055 + AS, REF: DOVE UNION AL8730 + AS – DOOR STOP 2 X BRASS BARREL BOLTS 70MM
FRAME FINISH	1 SEALER COAT AND 2 COATS WOODBUTY ALL BY ARCHITECTS
BUILD IN METHOD	BUILD INTO BRINOWORK AS PER MANUFACTURER'S SPECS. BACK OF FRAME TO BE SOLID FILLED WITH MORTAR

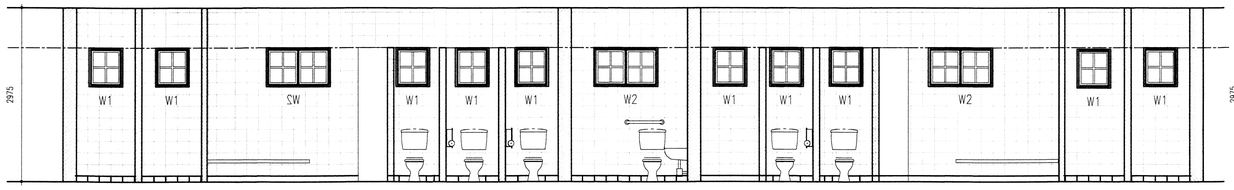
D3



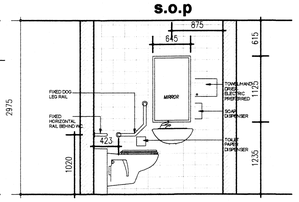
HAND:– LEFT HAND – RIGHT HAND –

NUMBER REQUIRED	01
POSITION	DISABLE ABLUTION
DOOR TYPE	TOILET DOOR FOR DISABLED
DOOR DESCRIPTION	2032X1000x32mm HOLLOW CORE FLUSH SINGLE SWING DOOR TO COMPLY WITH SABS 727.
DOOR FRAME	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME TO TAKE 2032X813mm DOOR. FRAME FOR 110mm WALL.
HINGES	2 PAIRS OF HEAVY DUTY BRASS PARLIAMENT HINGES
IRON MONGERY	INDICATOR BOLT UNION AL8730 + AS – DOOR STOP
FRAME FINISH	1 COAT WOOD PRIMER, 1 UNDERCOAT, 2 COATS VELVAGLO PAINT, ALL TO ARCHITECTS SPEC.
BUILD IN METHOD	BUILD INTO BRINOWORK AS PER MANUFACTURER'S SPECS. BACK OF FRAME TO BE SOLID FILLED WITH MORTAR

			ABLUTION BLOCK					
			ABLUTIONS MALES	ABLUTIONS FEMALES	ADULT DISABLE ABLUTIONS			
			A	B	C			
FLOOR & FLOOR FINISH	1	30 mm SCREED	●	●		1	30 MM SCREED WITH SPONGED FINISH TO FALL AND BRICK ON EDGE BORDER	
	2					2		
	3					3		
	4	"GRANITO" CERAMIC TILES	●	●	●	4	JOHNSONS 330 X 330 "GRANITO" CERAMIC TILES GN 573 ON STANDARD ADHESIVE	
	5					5		
SKIRTING	6					6	76X16mm MERANTI HARDWOOD SKIRTING - NO QUADRANT	
	7					7	POWER SKIRTING(to eng's detail) TO BE FIXED 150mm AFFL.	
WALLS	8	1 COAT PLASTER	●	●	●	8	1 COAT PLASTER, UNIVERSAL UNDERCOAT,AND 2 COATS VELVAGLO (PAINT NIGERIAN SAND 4)	
	9	GLAZED TILES TO DOOR HEIGHT	●	●	●	9	JOHNSONS 200 X 200 "MATISSE" MATT WHITE MWB 4	
	10					10		
CILLS	11	EXTERNAL BRICK ON EDGE	●	●	●	11	BRICK ON EDGE FACE BRICK AT ANGLE	
	12	GLAZED TILE CILL	●	●	●	12	GLAZED TILE CILL - JOHNSON 200 X 200 "MATISSE" MATT WHITE MWB4 WITH PLASTIC EDGE STRIP	
CEILINGS	13	6 mm RHINO BOARD CEILING	●	●	●	13	6.4mm "RHINO" GYPSUM PLASTERBOARD WITH H-TYPE PRESSED STEEL JOINTING STRIPS	
	14	6 mm NUTEC FIBRE CEMENT				14	6mm 'EVERITE NUTEC' OR OTHER APPROVED FIBRE REINFORCED CEMENT CELLULOSE SHEETING, CLOSELY BUTT JOINTED AT SIDES AND ENDS WITH STANDARD PRIMED STEEL GALVINISED STEEL 'H' SECTION JOINTING STRIPS FIXED BETWEEN EDGES OF BUTTING EDGES OF SHEETING AND NAILED	
CORNICE	15	75 mm RHINOBOARD CORNICE	●	●	●	15	75mm Coved cornices	
	16					16		
SANITARY FITTINGS	17	BASINS	●	●	●	17	VAAL SANITARYWARE CAMEO CERAMIC FIRECLAY DROP-IN VANITY BASIN COLOUR WHITE(CODE: 7028) SIZE 595X415 WITH ONE TAPHOLE INCLUDING INTEGRATED AND CHAINSTAY HOLE BOLTED TO WALL WITH TWO 10MM BOLTS(CODE 8448Z0) & SEALED WITH SILICONE SEALANT WHERE BASIN MEETS WALL.	
	18					18		
	19	DISABLED TOILET GRABRAILS AND GEAR			●	19	DISABLED TOILET GRABRAILS AND GEAR	
	20	WC-DISABLED			●	20	VAAL SANITARYWARE [SUITE] PARAPLEGIC VITREOUS CHINA (MOUNTING)(INLET) WASHDOWN SUITE COLOUR WHITE(SUITE CODE)(FIXING) COMPRISING (PAN)(PAN CODE) (FLUSHING MECHANISM)(SIDE FLUSH LEVER)(TOILET SEAT).	
	21	WC-ADULT	●	●		21	FLUSH PANS SHALL HAVE STRAIGHT OR SIDE OUTLETS AND "P" OR "S" TRAPS AS NECESSARY (LUXE SEAT AND FLAP. BALLO STOP VALVE.)	
	22	URINALS	●			22	1 PAIR CP UNDERWALL STOPTAPS COBRA 128 1 OVERHEAD SHOWER ARM COBRA 027 — 1 CONCORDE SHOWER ROSE COBRA 098BJ (STAR PATTERN)	
SUNDRY	23	GEYSER	●	●		23	150 lt HORIZONTAL PRESSURE GEYSER COMPLETE WITH VALVES AND DRIP TRAY	
	24	WHITE CRANEWARE TOILET ROLL HOLDER	●	●	●	24	WHITE CRANEWARE TOILET ROLL HOLDER	
	25	MIRROR	●	●	●	25	450 X 600MM MIRROR	
	26	Solid	●	●	●	26	38MM DIAMETER RUBBER DOOR STOP PLUGGED AND SCREWED TO FLOOR WITH A 50MM LONG BRASS SCREW	
			●	●	●			



SECTIONAL ELEVATION A - A
SCALE 1 : 50



PUBLIC ABLUTIONS (DISABLED TOILET) ELEVATION
SCALE 1 : 50

MALUTI-A-PHOFUNG MUNICIPALITY
SIGNATURE: DATE:
SECTION:
TOWN PL
HEA
STRU
E
FIN 15/05/2015

BUILDING CONTROL RECEIVED 2015 -04- 16 MALUTI-A-PHOFUNG

BUILDING CONTROL APPROVED 2015 -Uo- 19 MALUTI-A-PHOFUNG

REVISIONS

No	DATE	BY	

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT: [redacted]

CONSULTANT:

ADDRESS:
25 Northpoint
275 Northridge road, Morningside
4001 Durban

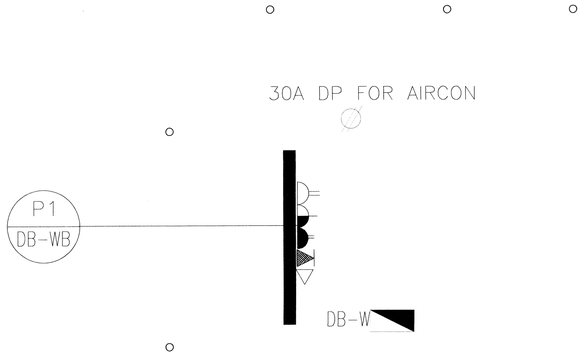
ARCHITECT: E.T

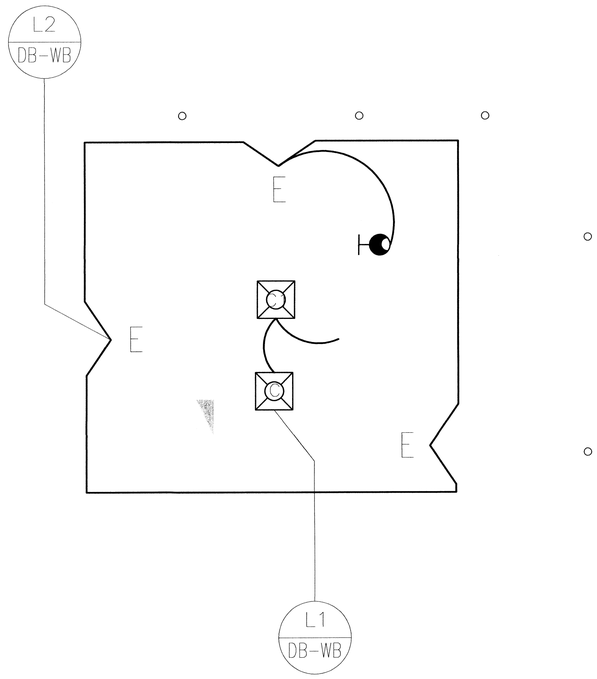
ARCHITECT'S SIGNATURE:

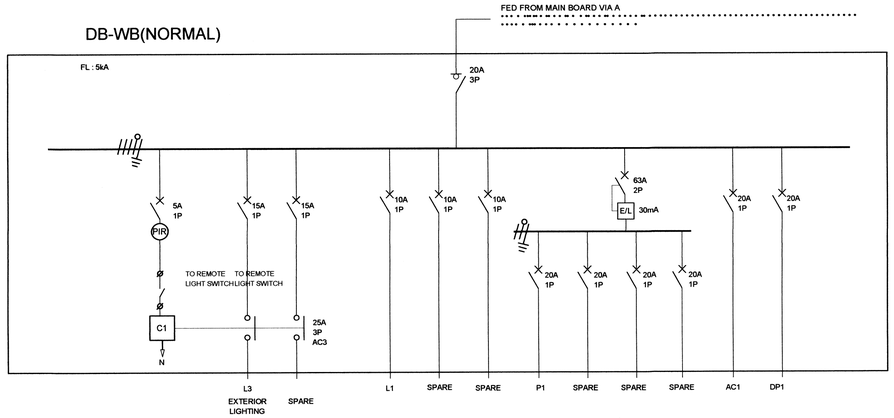
PROJECT:
PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:
ABLUTION BLOCK
SCHEDULES & ROOM DATA

SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	E . T
DRAWN BY:	E . T
DRAWING NO.	ARC_QWA_DD_400
REVISION	00







4,0 x 2 (W)	4,0 x 2 (W)		1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	2,5 x 2 (C)	2,5 x 2 (C)	2,5 x 2 (C)	2,5 x 2 (C)	4 x 2 (W)	2,5 x 2 (C)	CONDUCTOR (W) CABLE (C) SIZE (mm^2)
4,0	4,0		1,5	1,5	1,5	2,5	2,5	2,5	2,5	2,5	2,5	EARTH WIRE SIZE (mm^2)

GENERAL NOTES

1. CONSTRUCTION :

1.1 DB SHALL COMPLY WITH REQUIREMENTS OF IEC439-1 (LV SWITCHGEAR AND CONTROLGEAR ASSEMBLIES)
1.2 DB'S SHALL BE SURFACE MOUNTED WITH LOCKABLE DOORS
1.3 CABLE & CONDUIT ENTRY : TOP & BOTTOM
1.4 FACE PLATES TO HAVE CHROME HANDELS FOR REMOVAL (2 OFF)
1.5 GLAND PLATES : 2mm THICKNESS
1.6 COMPARTMENTS SHALL BE INTERNALLY SEGREGATED TO IP4X. INTERCONNECTING CABLING SHALL BE ROUTED THROUGH GROMMETS
1.7 MODULAR CONSTRUCTION; eg. M & G PRISMA PLUS TYPE WILL BE PREFERED.

2. COLOUR :

2.1 FRAME INSIDE & OUTSIDE : ELEC ORANGE B26 EPOXY POWDER COATED
2.2 FACE PLATES : ESSENTIAL POWER COMPARTMENT RED
NORMAL POWER COMPARTMENT - ELEC ORANGE B26
UPS POWER COMPARTMENT - PURPLE

3. EQUIPMENT :

3.1 SQUARE KEY TURNLOCKS REQUIRED (2 OFF) ON EACH FACE PLATE.
3.2 ALL CIRCUIT BREAKERS TO BE OF MERLIN GERIN OR EQUAL AND APPROVED MANUFACTURE.
3.4 BUSBARS TO BE COLOUR CODED WITH HEAT SHRINK INSULATION FOR FULL LENGTH.
3.5 EARTH BAR SIZE : 35mm x 6mm COPPER INSTALLED ACROSS TOTAL WIDTH OF DB.
3.6 MINIMUM EARTH WIRE CONNECTION BETWEEN LIGHTNING PROTECTION MAX. LENGTH 400mm.
3.7 CHANGE-OVER SWITCHGEAR TO BE ELECTRICALLY AND MECHANICALLY INTERLOCKED.
3.8 SWITCHING CONTACTORS TO BE ABB TYPE A145 OR EQUAL AND APPROVED TYPE WITH NO & NC AUXILIARY CONTACTS.
3.10 ALL TERMINALS SHALL BE KLIPPON TYPE RSF 1 COMPLETE WITH LABELS.

4. LABELLING :

4.1 ALL LABELS SHALL BE ENGRAVED SANDWICH BOARD FIXED WITH METAL THREADED SCREWS
4.2 ALL INTERNAL EQUIPMENT TO BE LABELLED eg. FUSES, CONTACTORS etc.
4.3 EACH COMPARTMENT TO BE LABELLED WITH 20mm LETTERING.
4.4 MAIN DB LABELLING TO BE 30mm.
4.5 MCB's SHALL NOT BE NUMBERED; ENGRAVED LABELS REQUIRED :

ARC_QWA_DD_001 | **00**

1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.

LEGEND

	2 x 36W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2m CAPTIVE WITH MOULDED 5A PLUG TOP. - VOLTEX 1800-216-136-E1B
	2 x 36W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2m CAPTIVE WITH MOULDED 5A PLUG TOP. - WITH SELF TEST EMERGENCY GEAR BATTERIES FOR 1 HOUR DURATION. - VOLTEX 1800-216-136-E1B-EM
	2 x 36W SABS APPROVED SURFACE MOUNTED OPEN CHANNEL LUMINAIRE WITH ELECTRONIC BALLAST - LASCON 7600-236-E1B
	2 x 36W SABS APPROVED SURFACE MOUNTED OPEN CHANNEL LUMINAIRE WITH ELECTRONIC BALLAST WITH EMERGENCY BACKUP - LASCON 7600-236-E1B-EM6
	2 x 18W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2m CAPTIVE WITH MOULDED 5A PLUG TOP. - VOLTEX 1800/518-218-E1B
	2 x 18W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2m CAPTIVE WITH MOULDED 5A PLUG TOP. - VOLTEX 1800/518-218-E1B-EM-1540
D	2 x 18W SABS APPROVED COMPACT FLUORESCENT CEILING MOUNTED ROUND BULKHEAD - LASCON 1184-2 x 18W
D	AS D BUT WITH 1 HOUR BATTERY BACK-UP
E	2 x 18W SABS COMPACT FLUORESCENT SURFACE MOUNTED ROUND BULKHEAD - BEKA 21218 BULKHEAD 2 x 18W
E1	2 x 18W SABS COMPACT FLUORESCENT ROUND BULKHEAD - WITH SELF TEST EMERGENCY GEAR BATTERIE FOR 1 HOUR DURATION - BEKA 21218 BULKHEAD 2 x 18W / 1M
F	LOW MOUNTING LED DOWNLIGHTER
	INDUSTRIAL BULKHEAD 2X 18W VANDAL PROOF IP65 AS DOUBLE OR APPROVED EQUIVALENT
	150W HPS WIDE BEAM SABS APPROVED HIGHBAY LIGHT AS SECHNOY OR APPROVED EQUIVALENT
	ILLUMINATED EXIT SIGN LUMINAIRE WITH 2 x 7W LAMP AND EMERGENCY CONTROL GEAR IN UNIBRAND MODIC METALLED ANDWC EMERGENCY EXIT DOOR 1 BEKA TYPE OF SIGN/POP MODEL 1H BATTERY DURATION
	16A SINGLE LEVER 1 WAY LIGHT SWITCH
	16A SINGLE LEVER 2 WAY LIGHT SWITCH
	16A SINGLE LEVER 1 WAY LIGHT SWITCH WITH DIMMER CONTROL
	16A SINGLE LEVER 2 WAY LIGHT SWITCH WITH DIMMER CONTROL
	PHOTOCELL MODIC BEKA BULKHEAD HOUSING

ELECTRICAL LEGEND:

	ELECTRICAL DISTRIBUTION BOARD
	TELKOM DISTRIBUTION BOARD
	CIRCUIT IDENTIFICATION
	TV POINT
	2 TIER TRUCKING/POWER SKIRTING
	INDICATOR LIGHT FOR STRONG ROOM
	TWO PIN PLUG
	SINGLE SSO
	DOUBLE SSO
	SINGLE DEDICATED OUTLET
	TELEPHONE OUTLET POINT
	DATA OUTLET POINT
P	THREE PHASE POWER OUT
	SINGLE PHASE ISOLATOR
	THREE PHASE ISOLATOR
	PUBLIC TELEPHONE BOOTH

BUILDING CONTROL
APPROVED
2015 -06- 19
MALUTI-A-PHOFUNG

REVISIONS

No	DATE	BY	DESCRIPTION

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:

CONSULTANT:
ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:
Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

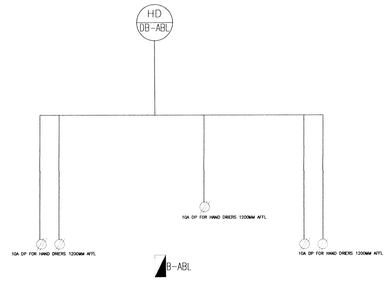
DISCIPLINE: ELECTRICAL ENGINEERING

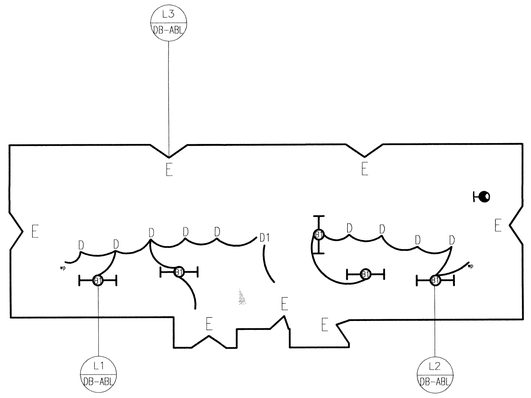
PROJECT:
PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

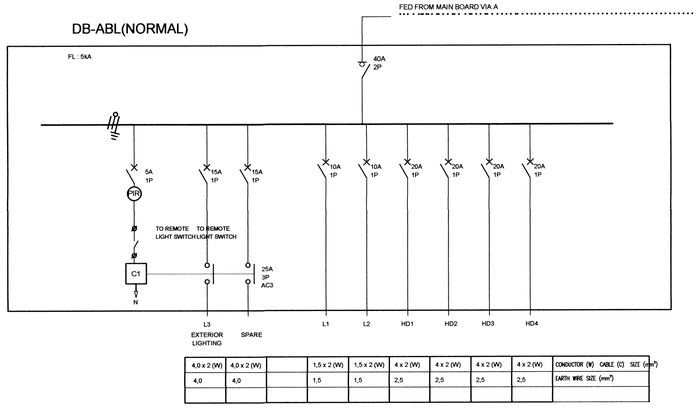
DRAWING TITLE:

WEIGH BRIDGE HUT

SCALE:	**AS SHOWN**
DATE:	**MAY 2014**
CHECKED BY:	**R . C**
DRAWN BY:	**T. M**
DRAWING NO.	REVISION
ELE_QWA_006	**00**







4,0 x 2 (W)	4,0 x 2 (W)		1,5 x 2 (W)	1,5 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	CONDUCTOR (W) CABLE (C) SIZE (mm^2)
4,0	4,0		1,5	1,5	2,5	2,5	2,5	2,5	EARTH WIRE SIZE (mm^2)

GENERAL NOTES

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1.7 MODULAR CONSTRUCTION; eg M & G PRISMA PLUS TYPE WILL BE PREFERED

2 COLOUR :

2.1 FRAME INSIDE & OUTSIDE : ELEC ORANGE B26 EPOXY POWDER COATED
2.2 FACE PLATES : ESSENTIAL POWER COMPARTMENT RED
NORMAL POWER COMPARTMENT - ELEC ORANGE B26
UPS POWER COMPARTMENT - PURPLE

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3.4 BUSBARS TO BE COLOUR CODED WITH HEAT SHRINK INSULATION FOR FULL LENGTH
3.5 EARTH BAR SIZE : 35mm x 6mm COPPER INSTALLED ACROSS TOTAL WIDTH OF DB
3.6 MINIMUM EARTH WIRE CONNECTION BETWEEN LIGHTNING PROTECTION MAX LENGTH 400mm
3.7 CHANGE-OVER SWITCHGEAR TO BE ELECTRICALLY AND MECHANICALLY INTERLOCKED
3.8 SWITCHING CONTACTORS TO BE ABB TYPE A145 OR EQUAL AND APPROVED TYPE WITH NO & NC AUXILIARY CONTACTS
3.10 ALL TERMINALS SHALL BE KLIPPON TYPE RSF 1 COMPLETE WITH LABELS

4 LABELLING :

4.1 ALL LABELS SHALL BE ENGRAVED SANDWICH BOARD FIXED WITH METAL THREADED SCREWS
4.2 ALL INTERNAL EQUIPMENT TO BE LABELLED eg FUSES, CONTACTORS etc
4.3 EACH COMPARTMENT TO BE LABELLED WITH 20mm LETTERING
4.4 MAIN DB LABELLING TO BE 30mm
4.5 MCB's SHALL NOT BE NUMBERED; ENGRAVED LABELS REQUIRED :

MALUTI-A-PHOFUNG MUNICIPALITY

SIGNATURE: ..... DATE: .....
SECTION: .....
TOWN PLANNING: .....
HEALTH: .....
STRUCTURAL: .....
ELECTRICAL: 15/06/2015
FIRE: .....

BUILDING CONTROL
RECEIVED
2015 -04- 16
MALUTI-A-PHOFUNG

BUILDING CONTROL
APPROVED
2015 -06- 19
MALUTI-A-PHOFUNG

	ARC_QWA_DD_001 | 00

1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.

LEGEND

- 2 x 36W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2x CHIPTRE WBS MOULDED 3A PLUG TOP. – VOLEX 600-CLD-236-CLD
- 2 x 36W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2x CHIPTRE WBS MOULDED 3A PLUG TOP. – WITH SELF TEST EMERGENCY GEAR SUITABLE FOR 1 HOUR DURATION – VOLEX 600-CLD-236-CLD-EMS
- 2 x 36W SWS APPROVED SURFACE MOUNTED OPEN CHANNEL LUMINAIRE WITH ELECTRONIC BALLAST – LUXEON 1WD-236-CLD
- 2 x 36W SWS APPROVED SURFACE MOUNTED OPEN CHANNEL LUMINAIRE WITH ELECTRONIC BALLAST WITH EMERGENCY BACK-UP – LUXEON 1WD-236-CLD-EMS
- 2 x 18W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2x CHIPTRE WBS MOULDED 3A PLUG TOP. – VOLEX 1WD/CLD-218-CLD
- 2 x 18W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 2x CHIPTRE WBS MOULDED 3A PLUG TOP. – VOLEX 1WD/CLD-218-CLD-EMS
- D 13W SWS APPROVED COMPACT FLUORESCENT CEILING MOUNTED ROUND BULKHEAD – LUXEON 1M4-2 x 13W
- D AS D BUT WITH 1 HOUR BATTERY BACK-UP
- E 2 x 18W SWS COMPACT FLUORESCENT SURFACE MOUNTED ROUND BULKHEAD – BEKA 31518 BULKHEAD 2 x 18W
- E1 2 x 18W SWS COMPACT FLUORESCENT ROUND BULKHEAD – WITH SELF TEST EMERGENCY GEAR SUITABLE FOR 1 HOUR DURATION – BEKA 31518 BULKHEAD 2 x 18W / EM
- F LOW WATTAGE LED DOWNLIGHTER
- G INDUSTRIAL BULKHEAD 2X 18W VANDAL PROOF IP65 AS BEKABULK OR APPROVED EQUIVALENT
- H 1000 MPS WIDE BEAM SABS APPROVED HIGH-BAY LIGHT AS BEKAMAX OR APPROVED EQUIVALENT
- X1 ILLUMINATED EXIT SIGN LUMINAIRE WITH 2 x PL9 LAMP AND EMERGENCY CONTROL GEAR IN MAINTAINED MODE, INSTALLED ABOVE EMERGENCY EXIT DOOR : BEKA TYPE 'B' CODE/NOP HYDRA, 1H BATTERY DURATION
- 10A SINGLE LEVER 1 WAY LIGHT SWITCH
- 10A SINGLE LEVER 2 WAY LIGHT SWITCH
- 10A SINGLE LEVER 1 WAY LIGHT SWITCH WITH DIMMER CONTROL
- 10A SINGLE LEVER 2 WAY LIGHT SWITCH WITH DIMMER CONTROL
- PHOTOCELL INSIDE BEKA BULKHEAD HOUSING

ELECTRICAL LEGEND:

	ELECTRICAL DISTRIBUTION BOARD
	TELKOM DISTRIBUTION BOARD
	CIRCUIT IDENTIFICATION
	TV POINT
	2 TIER TRUCKING/POWER SKIRTING
	INDICATOR LIGHT FOR STRONG ROOM
	TWO PIN PLUG
	SINGLE SSO
	DOUBLE SSO
	SINGLE DEDICATED OUTLET
	TELEPHONE OUTLET POINT
	DATA OUTLET POINT
P	THREE PHASE POWER OUTLET
	SINGLE PHASE ISOLATOR
	THREE PHASE ISOLATOR
	PUBLIC TELEPHONE BOOTH

REVISIONS

No	DATE	BY	DESCRIPTION

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:

CONSULTANT:

ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:

Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ELECTRICAL ENGINEERING

PROJECT:

PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:

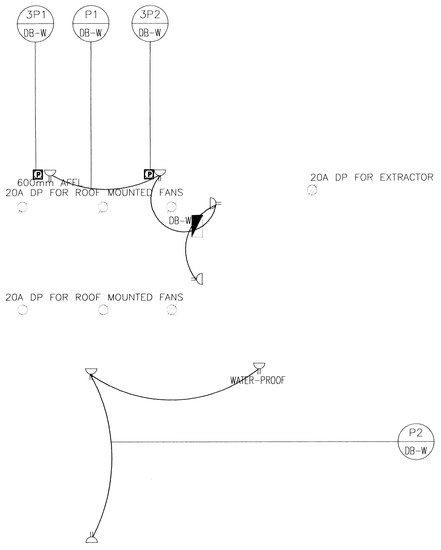
ABLUTION BLOCK ELECTRICAL

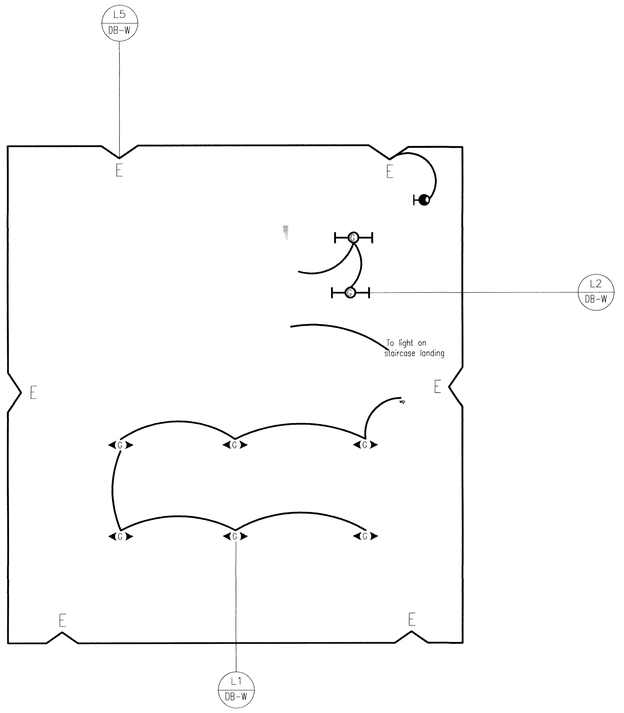
SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	R . C
DRAWN BY:	T . M
DRAWING NO.	ELEC_QWA_005 | REVISION 00

MALUTI-A-PHOFUNG MUNICIPALITY
DATE:
SIGNATURE:
SECTION:
TOWN PLANNING:
HEALTH:
STRUCTURAL:
ELECTRICAL:
FIRE:

BUILDING CONTROL RECEIVED 2015 -04- 16 MALUTI-A-PHOFUNG

BUILDING CONTROL APPROVED 2015 -06- 19 MALUTI-A-PHOFUNG





GENERAL NOTES

1. CONSTRUCTION :

1.1 DB SHALL COMPLY WITH REQUIREMENTS OF IEC439-1 (LV SWITCHGEAR AND CONTROLGEAR ASSEMBLIES)
1.2 DB'S SHALL BE SURFACE MOUNTED WITH LOCKABLE DOORS
1.3 CABLE & CONDUIT ENTRY : TOP & BOTTOM
1.4 FACE PLATES TO HAVE CHROME HANDELS FOR REMOVAL (2 OFF)
1.5 GLAND PLATES : 2mm THICKNESS
1.6 COMPARTMENTS SHALL BE INTERNALLY SEGREGATED TO IP4X INTERCONNECTING CABLING SHALL BE ROUTED THROUGH GROMMETS
1.7 MODULAR CONSTRUCTION; eg M & G PRISMA PLUS TYPE WILL BE PREFERED

2. COLOUR :

2.1 FRAME INSIDE & OUTSIDE : ELEC ORANGE B26 EPOXY POWDER COATED
2.2 FACE PLATES : ESSENTIAL POWER COMPARTMENT RED
NORMAL POWER COMPARTMENT : ELEC ORANGE B26
UPS POWER COMPARTMENT : PURPLE

3. EQUIPMENT :

3.1 SQUARE KEY TURNLOCKS REQUIRED (2 OFF) ON EACH FACE PLATE
3.2 ALL CIRCUIT BREAKERS TO BE OF MERLIN GERIN OR EQUAL AND APPROVED MANUFACTURE
3.4 BUSBARS TO BE COLOUR CODED WITH HEAT SHRINK INSULATION FOR FULL LENGTH
3.5 EARTH BAR SIZE : 35mm x 6mm COPPER INSTALLED ACROSS TOTAL WIDTH OF DB
3.6 MINIMUM EARTH WIRE CONNECTION BETWEEN LIGHTNING PROTECTION
MAX. LENGTH 400mm
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4.4 MAIN DB LABELLING TO BE 30mm
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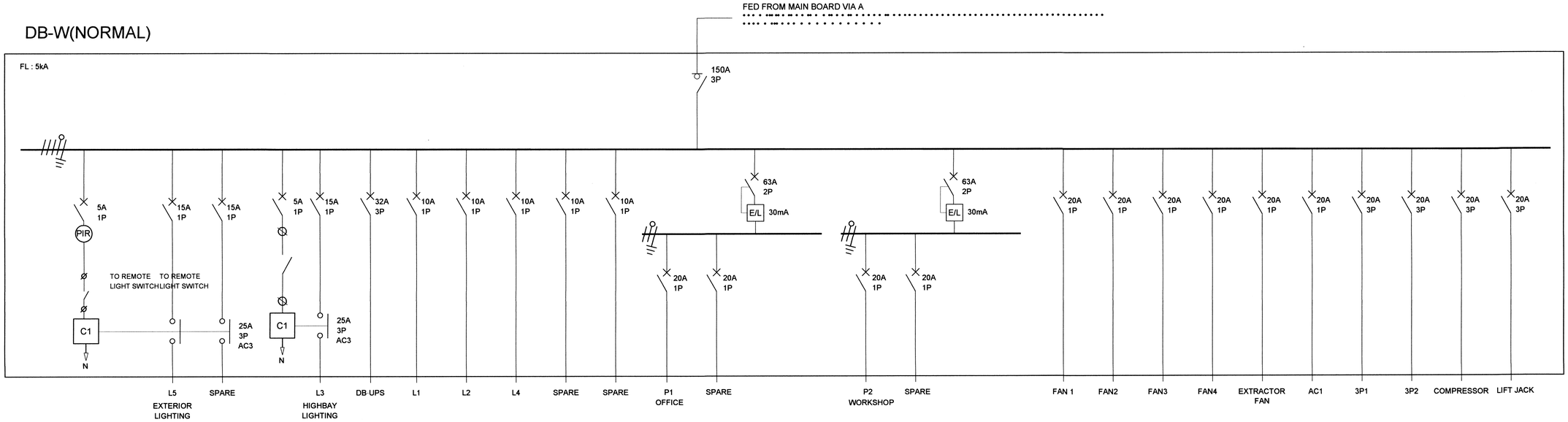
DB-W(NORMAL)



4,0 x 2 (W)	4,0 x 2 (W)		2,5 x 2 (W)	6 x 4 (C)	1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	2,5 x 2 (C)	2,5 x 2 (C)			2,5 x 2 (C)	2,5 x 2 (C)			4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)
4,0	4,0		2,5	4	1,5	1,5	1,5	1,5	1,5	2,5	2,5			2,5	2,5			2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5

1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.

LEGEND

- 3 x 36W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ENAMALE CONTROL GEAR AND 3m CAPTIVE WITH MOULDED 5A PLUG TOP – VOLTEX 600-310-330-010
- 3 x 36W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 3m CAPTIVE WITH MOULDED 5A PLUG TOP – WITH SELF TEST EMERGENCY KIT AND BATTERY FOR 1 HOUR DURATION – VOLTEX 1000-310-330-010-0300
- 2 x 36W SHOE APPROVED SURFACE MOUNTED OPEN CHANNEL LUMINAIRE WITH ELECTRONIC BALLAST – LUCCON FWO-226-010
- 2 x 36W SHOE APPROVED SURFACE MOUNTED OPEN CHANNEL LUMINAIRE WITH ELECTRONIC BALLAST WITH EMERGENCY BACKUP – LUCCON FWO-226-010-0340
- 3 x 18W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 3m CAPTIVE WITH MOULDED 5A PLUG TOP – VOLTEX 1000/310-330-010
- 3 x 18W RECESSED FLUORESCENT LUMINAIRE WITH DOUBLE PARABOLIC LOUVRE COMPLETE WITH ELECTRONIC CONTROL GEAR AND 3m CAPTIVE WITH MOULDED 5A PLUG TOP – VOLTEX 1000/310-330-010-0340
- D 2 x 18W SHOE APPROVED COMPACT FLUORESCENT CEILING MOUNTED ROUND BULKHEAD – LUCCON TRH-2 x 18W
- D AS D BUT WITH 1 HOUR BATTERY BACK-UP
- E 2 x 18W SHOE COMPACT FLUORESCENT SURFACE MOUNTED ROUND BULKHEAD – BESA 31216 BULKHEAD 2 x 18W
- E1 2 x 18W SHOE COMPACT FLUORESCENT ROUND BULKHEAD WITH SELF TEST EMERGENCY KIT SUITABLE FOR 1 HOUR DURATION – BESA 31216 BULKHEAD 2 x 18W / EM
- F LOW WATTAGE LED DOWNLIGHTER
- G INDUSTRIAL BULKHEAD 2X 18W VANDAL PROOF IP65 AS BESABULK OR APPROVED EQUALENT
- H 125W HPS 1000C BESA SHOE APPROVED HIGHBAY LIGHT AS BESAHAY OR APPROVED EQUALENT
- X11 ILLUMINATED EXIT SIGN LUMINAIRE WITH 3 x PLX LAMP AND EMERGENCY CONTROL GEAR IN SANDWICH BOX METALLIC ARROW EMERGENCY EXIT DOOR : BESA TYPE EF 6208/KEP HYDRA, 1H BATTERY DURATION
- 16A SINGLE LEVER 1 WAY LIGHT SWITCH
- 16A SINGLE LEVER 2 WAY LIGHT SWITCH
- 16A SINGLE LEVER 1 WAY LIGHT SWITCH WITH DIMMER CONTROL
- 16A SINGLE LEVER 2 WAY LIGHT SWITCH WITH DIMMER CONTROL
- PHOTOCELL WHERE BESA BULKHEAD HOUSING

ELECTRICAL LEGEND:

- ELECTRICAL DISTRIBUTION BOARD
- TELKOM DISTRIBUTION BOARD
- CIRCUIT IDENTIFICATION
- TV POINT
- 2 TIER TRUCKING/POWER SKIRTING
- INDICATOR LIGHT FOR STRONG ROOM
- TWO PIN PLUG
- SINGLE SSO
- DOUBLE SSO
- SINGLE DEDICATED OUTLET
- TELEPHONE OUTLET POINT
- DATA OUTLET POINT
- THREE PHASE POWER OUTLET
- SINGLE PHASE ISOLATOR
- THREE PHASE ISOLATOR
- PUBLIC TELEPHONE BOOTH

REVISIONS

No	DATE	BY	DESCRIPTION

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:

CONSULTANT:
ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:
Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ELECTRICAL ENGINEERING

PROJECT:
PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

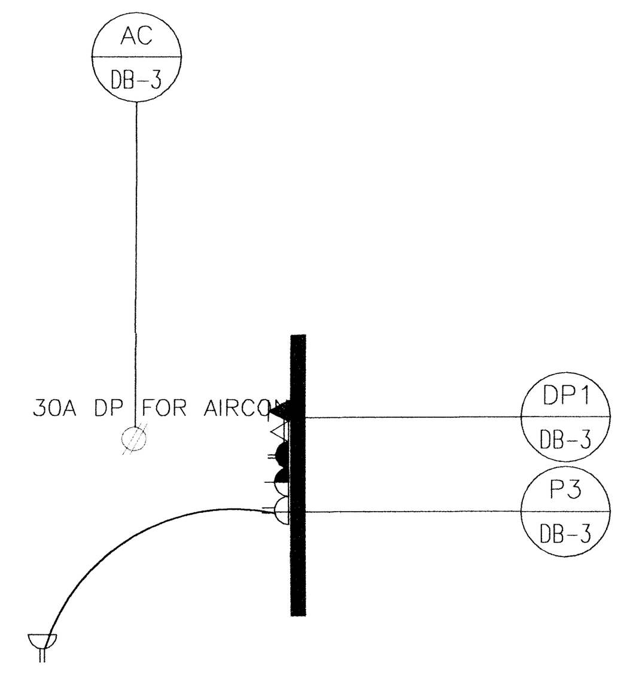
DRAWING TITLE:

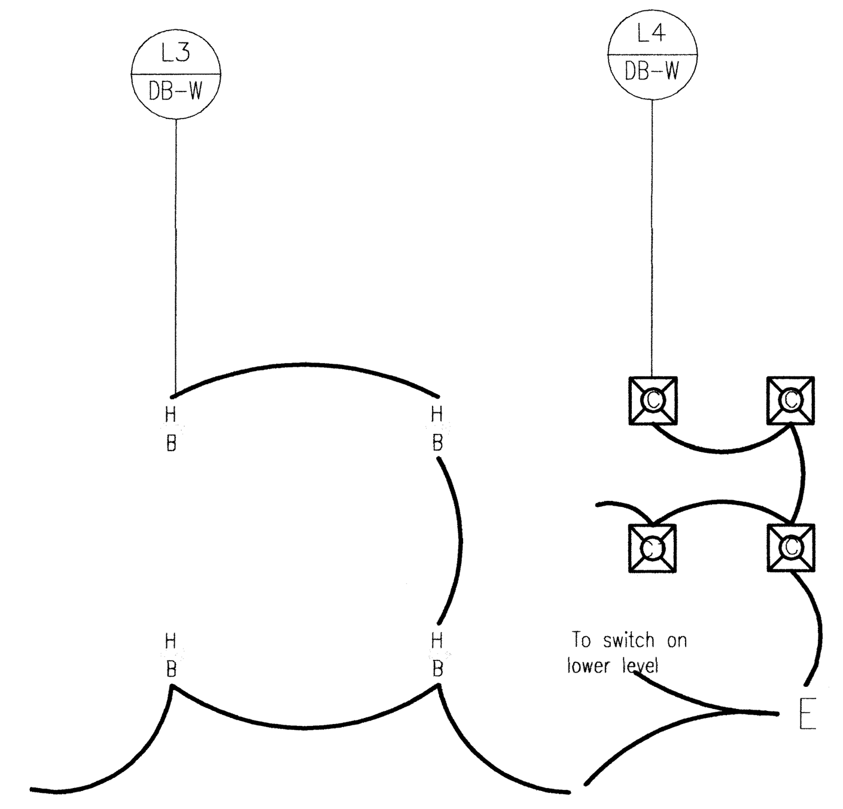
MAINTENANCE SHED GROUND ELECTRICAL

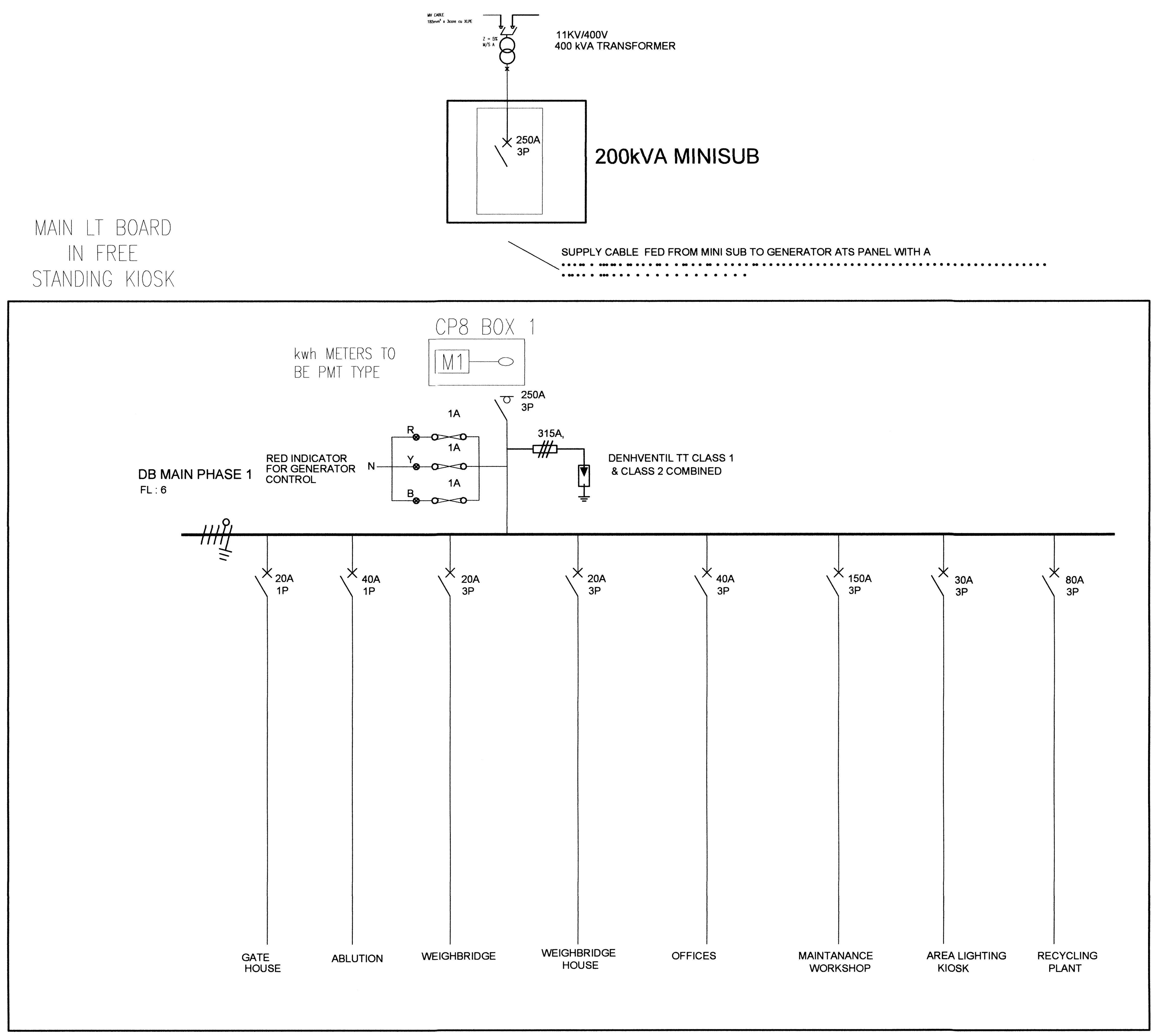
SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	R . C
DRAWN BY:	T . M
DRAWING NO.	ELE_QWA_003
REVISION	00

ARC_QWA_DD_001 | 00

ARC_QWA_DD_001 | 00







1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.

LEGEND

PHOTOCELL INSIDE BEKA BULKHEAD HOUSING

ELECTRICAL LEGEND:

Symbol	Description
	ELECTRICAL DISTRIBUTION BOARD
	TELKOM DISTRIBUTION BOARD
L2/DB4	CIRCUIT IDENTIFICATION
	TV POINT
	2 TIER TRUCKING/POWER SKIRTING
	INDICATOR LIGHT FOR STRONG ROOM
	TWO PIN PLUG
	SINGLE SSO
	DOUBLE SSO
	SINGLE DEDICATED OUTLET
	TELEPHONE OUTLET POINT
	DATA OUTLET POINT
P	THREE PHASE POWER OUTLET
	SINGLE PHASE ISOLATOR
	THREE PHASE ISOLATOR
	PUBLIC TELEPHONE BOOTH

REVISIONS

No	DATE	BY	DESCRIPTION

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT: [redacted]

CONSULTANT:

ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:

Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ELECTRICAL ENGINEERING

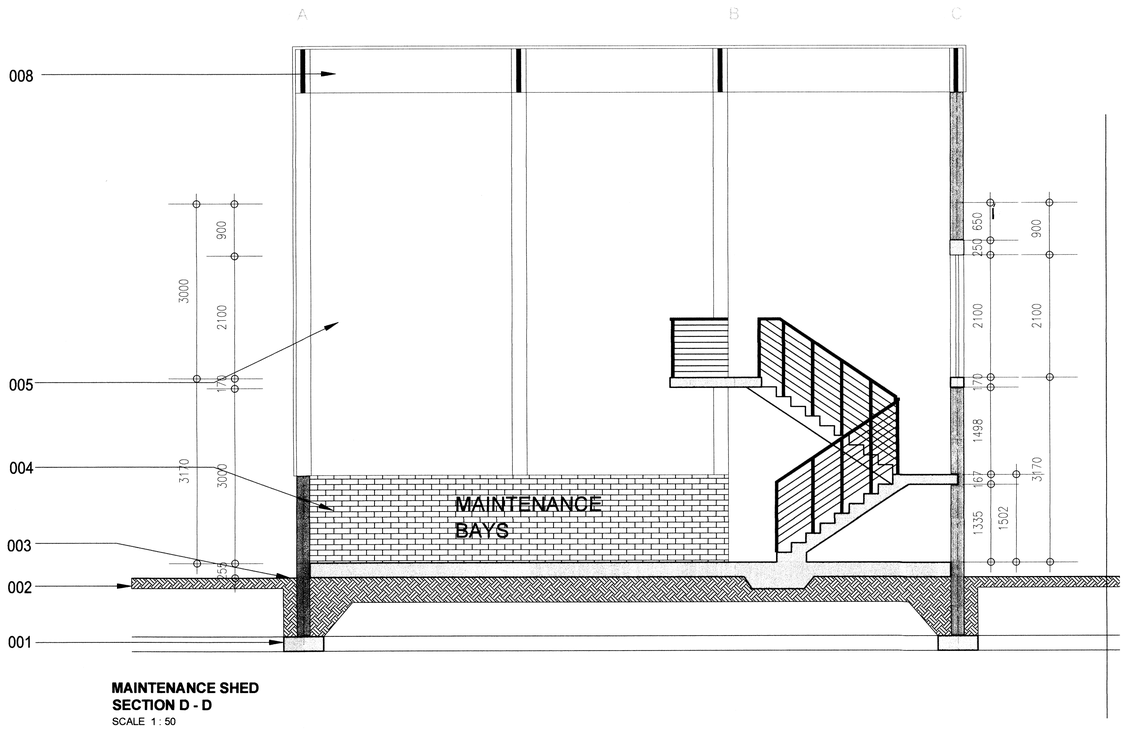
PROJECT:

PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:

MAINTENANCE SHED SECTION FIRST ELECTRICAL

SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	E . T
DRAWN BY:	E . T
DRAWING NO.	REVISION
ARC_QWA_DD_200	00

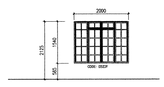


MAINTENANCE SHED
SECTION D - D
SCALE 1 : 50

			MAIN BUILDING					
			OFFICES	STORE ROOM	MAINTENANCE BAYS	COVERED AREA		
			B	C	D	E		
FLOOR & FLOOR FINISH	1	30 mm SCREED	●	●	●		1	30 MM SCREED WITH SPONGED FINISH TO FALL AND BRICK ON EDGE BORDER
	2	CONCRETE PAVERS					2	600X600 CONCRETE PAVERS
	3	LAWN					3	LAWN
	4	300 X 300 PORCELAIN TILES	●				4	300X300 PORVELAIN TILES- TACN1955YD (INTERIOR PURPOSES) LAID ON GOLDSTAR 6 GROUT ON 25m SCREED
	5	PAVING					5	
	6	"GRANITO" CERAMIC TILES					6	JOHNSONS 330 X 330 "GRANITO" CERAMIC TILES GN 573 ON STANDARD ADHESIVE
SKIRTING	7	POWER SKIRTING	●				7	POWER SKIRTING(to eng's detail) TO BE FIXED 150mm AFFL
	8	HARDWOOD SKIRTING	●				8	76X16mm MERANTI HARDWOOD SKIRTING - NO QUADRANT
WALLS	9	GLAZED TILES TO DOOR HEIGHT					9	JOHNSONS 200 X 200 "MATISSE" MATT WHITE MWB 4
	10	WALL CLADDING			●		10	IBR WALL CLADING BY SPECIALIST ON STEEL PORTAL FRAME
	11	1 COAT PLASTER	●	●			11	1 COAT PLASTER, UNIVERSAL UNDERCOAT,AND 2 COATS VELVAGLO (PAINT NIGERIAN SAND 4)
	12	1200m INTERNAL FACEBRICK	●	●			12	1200mm HIGH FACE BRICK (AGATE TRAVERTINE FBX)
CILLS	13	EXTERNAL BRICK ON EDGE	●	●			13	BRICK ON EDGE FACE BRICK AT ANGLE
	14	GLAZED TILE CILL					14	GLAZED TILE CILL - JOHNSON 200 X 200 "MATISSE" MATT WHITE MWB4 WITH PLASTIC EDGE STRIP
	15	15 mm THICK NUTEC CILL	●				15	15 MM THICK NUTEC CILL TRIMMED TO 25 MM OVERHANG WITH 19 X 19 MM SCOTIA BELOW
CEILINGS	16	6 mm RHINO BOARD CEILING					16	6.4mm "RHINO" GYPSUM PLASTERBOARD WITH H-TYPE PRESSED STEEL JOINTING STRIPS
	17	6 mm NUTEC FIBRE CEMENT CEILING	●	●			17	6mm 'EVERITE NUTEC' OR OTHER APPROVED FIBRE REINFORCED CEMENT CELLULOSE SHEETING, CLOSELY BUTT JOINTED AT SIDES AND ENDS WITH STANDARD PRIMED STEEL GALVINISED STEEL "H" SECTION JOINTING STRIPS FIXED BETWEEN EDGES OF BUTTING EDGES OF SHEETING AND NAILED
	18						18	
CORNICE	19	75 mm RHINOBOARD CORNICE	●	●			19	75mm Coved cornices
	20						20	

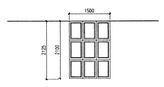
WINDOW SCHEDULE

W 01



No. REQ.	04
POSITION	MAINTENANCE SHED
FRAME	STANDARD STEEL RESIDENTIAL OPEN OUT TYPE COTTAGE FANE WITH BURGLAR BARS AS DURDWIN OR APPROVED
FRAME FINISH	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME
GLAZING	4MM CLEAR GLASS
IRONMONGERY	STANDARD TO SPECIFIED WINDOW TYPE, TO BE SUPPLIED WITH FRAME

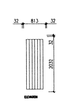
W 02



No. REQ.	01
POSITION	MAINTENANCE SHED
FRAME	Concrete Block
FRAME FINISH	
GLAZING	4MM CLEAR GLASS
IRONMONGERY	N/A

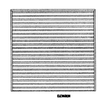
DOOR SCHEDULE

D1



HAND:-	LEFT HAND - RIGHT HAND -
NUMBER REQUIRED	02
POSITION	MAINTENANCE SHED
DOOR TYPE	INTERNAL DOOR
DOOR DESCRIPTION	813X2032x32mm LEDGE AND BRACED MERANTI HARDWOOD SINGLE SWING DOOR TO COMPLY WITH SABS 727.
DOOR FRAME	DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME TO TAKE 2032X813mm DOOR. FRAME FOR 220mm WALL.
HINGES	2 PAIRS OF HEAVY DUTY BRASS HINGES
IRON MONGERY	UNION CODE 2232I-76 SC - THREE LEVEL LOCK, UNION 6022 + 055 + 45, REF; DOVE UNION AL8730 + AS - DOOR STOP 2 X BRASS BARREL BOLTS 70MM
FRAME FINISH	1 SEALER COAT AND 2 COATS WOODBUTY ALL BY ARCHITECTS
BUILD IN METHOD	BUILD INTO BRINCWORK AS PER MANUFACTURER'S SPECS. BACK OF FRAME TO BE SOLID FILLED WITH MORTAR

D2



HAND:-	LEFT HAND - RIGHT HAND -
NUMBER REQUIRED	02
POSITION	MAINTENANCE SHED
DOOR TYPE	EXTERNAL DOOR
DOOR DESCRIPTION	Approved hot dipped galvanised steel 46mm interlocking 11,5 kg/meter square slotted roller shutter door with push-up action supplied complete and fixed strictly in accordance with the manufacturer's recommendations.
DOOR FRAME	As supplied complete with door. N.B. Check opening size on site.
HINGES	As supplied complete with door.
IRON MONGERY	Internally lockable bolt and lock with 2 keys as supplied with door.
FRAME FINISH	Gloss enamel paint.
BUILD IN METHOD	BUILD INTO BRINCWORK AS PER MANUFACTURER'S SPECS. BACK OF FRAME TO BE

001 FOUNDATION:

690 x 230mm strip foundations
min depth 1000mm or to be determined
on site by engineer

002 BACKFILL:

Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated to a density of 95% MOD AASHTO.

003 CONCRETE APRONS / CHANNELS

Concrete aprons laid to a fall of 1:200 and in panels with control joints at every 3m centres on fill compacted to MOD AASHTO 95%.
Control joints sealed with 10mm Polysulphide sealant with backing strip and softboard.

004 FLOORS:

100mm thick power floated finished concrete slab (25Mpa) reinforced with mesh Ref 193 set 25mm below top on 250 microns GUNPLAS USB GREEN waterproofing on 25mm river sand bed on fill compacted to MOD AASHTO 95%.
Soil to be poisoned in accordance with SABS 1165.
(Certificate must be provided)

005 WALKWAYS:

100mm thick concrete slab (25Mpa) reinforced with mesh Ref 193 set 25mm below top on 250 microns GUNPLAS USB GREEN waterproofing on 25mm sand bed on fill compacted to MOD AASHTO 95%. Veranda floor to be graded to fall 50mm and cast in panels at 1850 centres. Control Joints at every 7.4m centres. Finish to be wood float non-slip. Control joints sealed with 10mm Polysulphide sealant with backing strip and

006 WALLS

3 courses facebrick plinth (firelight Traevertine)
Maize travertine facebrick , from finished floor level to underside of roof.
Brick on edge (firelight Travertine)external window cills
Internally : Plaster and paint as per Architect's approva
Pre-cast concrete lintols

007 AIR BRICKS

229 x 152mm Terra-colta vermin proofed air-bricks built into brick beam filling at approx. 1265mm centres.

008 ROOF:

safintra 0.5mm thick 750mm cover , (traffic green) versatile galvanised roof sheeting with Z275 spelter to bothe sides and OPP insulation backing to one side fixed to galvanised steel trusses , designed by structural engineer and roof specialist by 75mm long galvanised steel screws with rubber washers and sealed with plastic caps sheets. Sheets must project minimum of 50mm beyond purlins at eaves. Holes in sheets to be drilled not punched.

ARC_QWA_DD_001 | 00

REVISIONS

No	DATE	BY	

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:

CONSULTANT:
ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:
Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ARCHITECTURAL

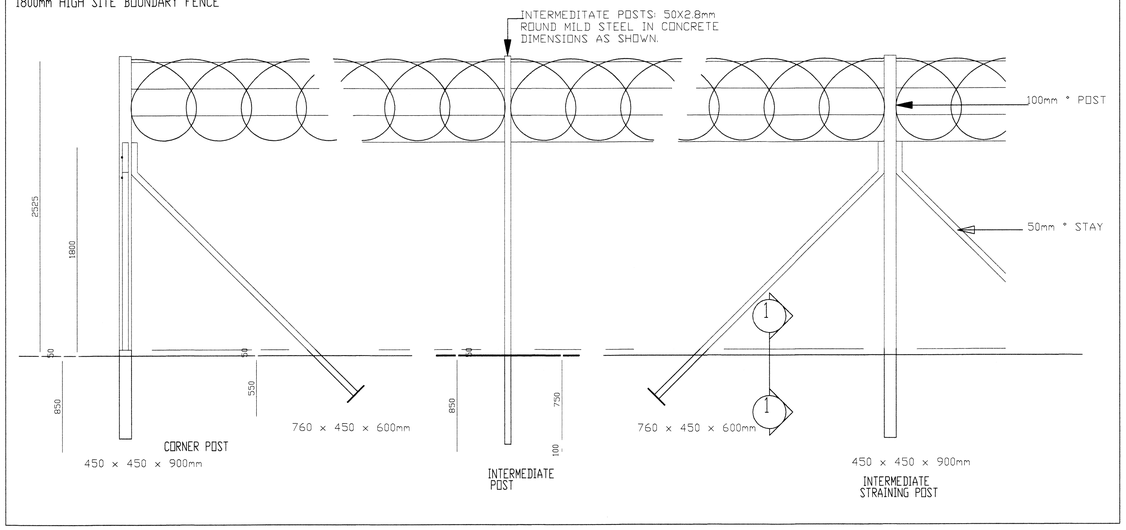
PROJECT:
PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:

MAINTENANCE SHED
SECTION & SCHEDULES

SCALE:	AS SHOWN	
DATE:	MAY 2014	
CHECKED BY:	E . T	
DRAWN BY:	E . T	
DRAWING NO.		REVISION
	ARC_QWA_DD_201	00

1800mm HIGH SITE BOUNDARY FENCE



GENERAL NOTES:

A - Tops of all posts and extensions to be sealed, by welding on pressed steel caps.

B - ALL CONCRETE FOOTINGS TO PROTRUDE 50mm ABOVE GROUND

450 x 450 x 900mm concrete base 50mm above ground level, provide holes for eye-bolts & anchor posts.

D - 50 x 2.8mm galv. m.s. stays with 200 x 200 x 6mm base plates cast into 450 x 760 x 600mm deep concrete and drilled for bolting to posts.

E - Provide 3 strands of galvanised, twisted double strand 1.6mm thick wire with 3 barbs incorporated in every 150mm fixed to extended post with 2.5mm galvanised binding wire, mechanically strained between two straining posts and / or gate and corner posts.

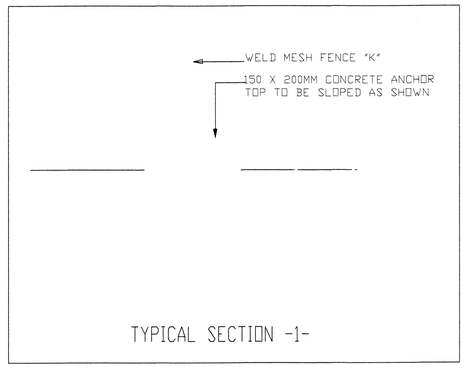
F - Barrel bolt with keep set in 150x150x150mm concrete base.

H - Intermeditate posts: 50x2.8mm round mild steel in concrete dimensions as shown.

K - 50x50x3.144mm galv. steel weldmesh. Provide 3 strands of 4mm gauge galv. straining wire fixed at one end to corner- or straining posts and other strained through eyebolts at posts.

L - 150 X 200mm Concrete Anchor as typical section -1-

2.8mm tubular frame with bracing as shown complete with 2 hinges and bolts each, barrel bolt to receive padlock.



TYPICAL SECTION -1-

REVISIONS

No	DATE	BY	

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT: [redacted]

CONSULTANT:
ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:

Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ARCHITECTURAL

PROJECT:

PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

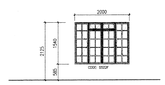
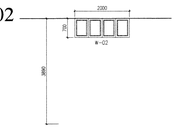
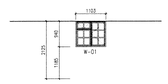
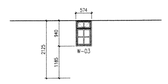
DRAWING TITLE:

GUARD HOUSE
FENCE DETAILS

SCALE:	AS SHOWN	
DATE:	MAY 2014	
CHECKED BY:	E . T	
DRAWN BY:	E . T	
DRAWING NO.		REVISION
	ARC_QWA_WD_501	00

			MAIN BUILDING					
			OFFICES	STORE ROOM	MAINTENANCE BAYS	COVERED AREA		
			B	C	D	E		
FLOOR & FLOOR FINISH	1	30 mm SCREED	●	●	●		1	30 MM SCREED WITH SPONGED FINISH TO FALL AND BRICK ON EDGE BORDER
	2	CONCRETE PAVERS					2	600X600 CONCRETE PAVERS
	3	LAWN					3	LAWN
	4	300 X 300 PORCELAIN TILES	●				4	300X300 PORVELAIN TILES- TACN1955YD (INTERIOR PURPOSES) LAID ON GOLDSTAR 6 GROUT ON 25m SCREED
	5	PAVING					5	
	6	"GRANITO" CERAMIC TILES					6	JOHNSONS 330 X 330 "GRANITO" CERAMIC TILES GN 573 ON STANDARD ADHESIVE
SKIRTING	7	POWER SKIRTING	●				7	POWER SKIRTING(to eng's detail) TO BE FIXED 150mm AFFL
	8	HARDWOOD SKIRTING	●				8	76X16mm MERANTI HARDWOOD SKIRTING - NO QUADRANT
WALLS	9	GLAZED TILES TO DOOR HEIGHT					9	JOHNSONS 200 X 200 "MATISSE" MATT WHITE MWB 4
	10	WALL CLADDING			●		10	IBR WALL CLADING BY SPECIALIST ON STEEL PORTAL FRAME
	11	1 COAT PLASTER	●	●			11	1 COAT PLASTER, UNIVERSAL UNDERCOAT,AND 2 COATS VELVAGLO (PAINT NIGERIAN SAND 4)
	12	1200m INTERNAL FACEBRICK	●	●			12	1200mm HIGH FACE BRICK (AGATE TRAVERTINE FBX)
CILLS	13	EXTERNAL BRICK ON EDGE	●	●			13	BRICK ON EDGE FACE BRICK AT ANGLE
	14	GLAZED TILE CILL					14	GLAZED TILE CILL - JOHNSON 200 X 200 "MATISSE" MATT WHITE MWB4 WITH PLASTIC EDGE STRIP
	15	15 mm THICK NUTEC CILL	●				15	15 MM THICK NUTEC CILL TRIMMED TO 25 MM OVERHANG WITH 19 X 19 MM SCOTIA BELOW
CEILINGS	16	6 mm RHINO BOARD CEILING					16	6.4mm "RHINO" GYPSUM PLASTERBOARD WITH H-TYPE PRESSED STEEL JOINTING STRIPS
	17	6 mm NUTEC FIBRE CEMENT CEILING	●	●			17	6mm 'EVERITE NUTEC' OR OTHER APPROVED FIBRE REINFORCED CEMENT CELLULOSE SHEETING, CLOSELY BUTT JOINTED AT SIDES AND ENDS WITH STANDARD PRIMED STEEL GALVINISED STEEL 'H' SECTION JOINTING STRIPS FIXED BETWEEN EDGES OF BUTTING EDGES OF SHEETING AND NAILED
	18						18	
CORNICE	19	75 mm RHINOBOARD CORNICE	●	●			19	75mm Coved cornices
	20						20	

WINDOW SCHEDULE

W 01	W 02	W 02	W 02
			
No. REQ. 04	No. REQ. 01	No. REQ. 05	No. REQ. 01
POSITION MAINTENANCE SHED	POSITION MAINTENANCE SHED	POSITION MAINTENANCE SHED	POSITION MAINTENANCE SHED
FRAME STANDARD STEEL RESIDENTIAL OPEN OUT TYPE COTTAGE PANE WITH BURGLAR BARS AS DURBANN OR APPROVED	FRAME Concrete Block	FRAME Concrete Block	FRAME Concrete Block
FRAME FINISH DOUBLE REBATED STANDARD HOT DIPPED (GALVANISED) PRESSED STEEL FRAME	FRAME FINISH	FRAME FINISH	FRAME FINISH
GLAZING 4MM CLEAR GLASS	GLAZING 4MM CLEAR GLASS	GLAZING 4MM CLEAR GLASS	GLAZING 4MM CLEAR GLASS
IRONMONGERY STANDARD TO SPECIFIED WINDOW TYPE, TO BE SUPPLIED WITH FRAME	IRONMONGERY N/A	IRONMONGERY N/A	IRONMONGERY N/A

DOOR SCHEDULE

001 FOUNDATION:

690 x 230mm strip foundations
min depth 1000mm or to be determined
on site by engineer

002 BACKFILL:

Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated to a density of 95% MOD AASHTO.

003 CONCRETE APRONS / CHANNELS

Concrete aprons laid to a fall of 1:200 and in panels with control joints at every 3m centres on fill compacted to MOD AASHTO 95%.
Control joints sealed with 10mm Polysulphide sealant with backing strip and softboard.

004 FLOORS:

100mm thick power floated finished concrete slab (25Mpa) reinforced with mesh Ref 193 set 25mm below top on 250 microns GUNPLAS USB GREEN waterproofing on 25mm river sand bed on fill compacted to MOD AASHTO 95%.
Soil to be poisoned in accordance with SABS 1165.
(Certificate must be provided)

005 WALKWAYS:

100mm thick concrete slab (25Mpa) reinforced with mesh Ref 193 set 25mm below top on 250 microns GUNPLAS USB GREEN waterproofing on 25mm sand bed on fill compacted to MOD AASHTO 95%. Veranda floor to be graded to fall 50mm and cast in panels at 1850 centres. Control Joints at every 7.4m centres. Finish to be wood float non-slip. Control joints sealed with 10mm Polysulphide sealant with backing strip and

006 WALLS

3 courses facebrick plinth (firelight Traevertine)
Maize travertine facebrick , from finished floor level to underside of roof.
Brick on edge (firelight Travertine)external window cills
Internally : Plaster and paint as per Architect's approva
Pre-cast concrete lintols!

007 AIR-BRICKS

229 x 152mm Terra-cotta vermin proofed air-bricks built into brick beam filling at approx. 1265mm centres.

008 ROOF:

safintra 0.5mm thick 750mm cover , (traffic green) versatile galvanised roof sheeting with Z275 spelter to bothe sides and OPP insulation backing to one side fixed to galvanised steel trusses , designed by structural engineer and roof specialist by 75mm long galvanised steel screws with rubber washers and sealed with plastic caps sheets. Sheets must project minimum of 50mm beyond purlins at eaves. Holes in sheets to be drilled not punched.

ARC_QWA_WD_402 | 00

REVISIONS

No	DATE	BY	

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:

CONSULTANT:
ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:
Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

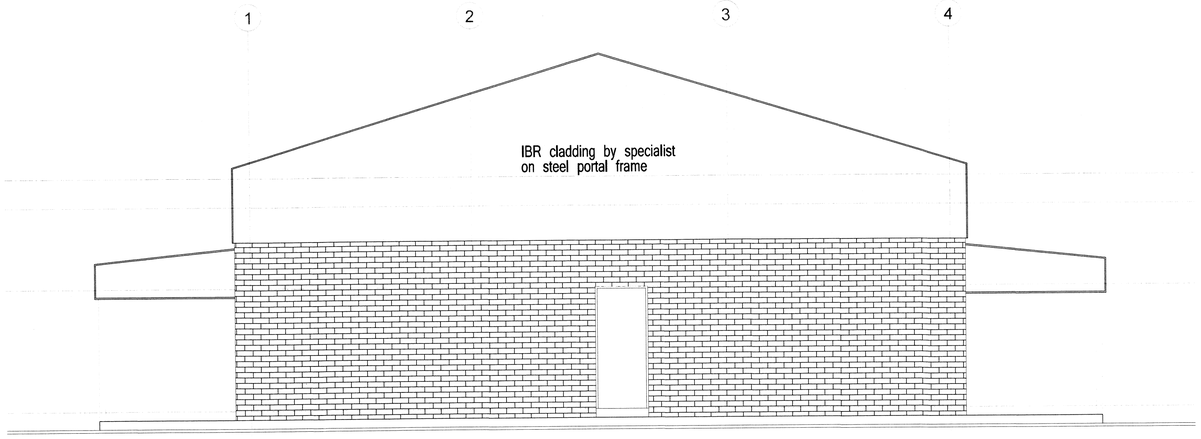
DISCIPLINE: ARCHITECTURAL

PROJECT:
PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

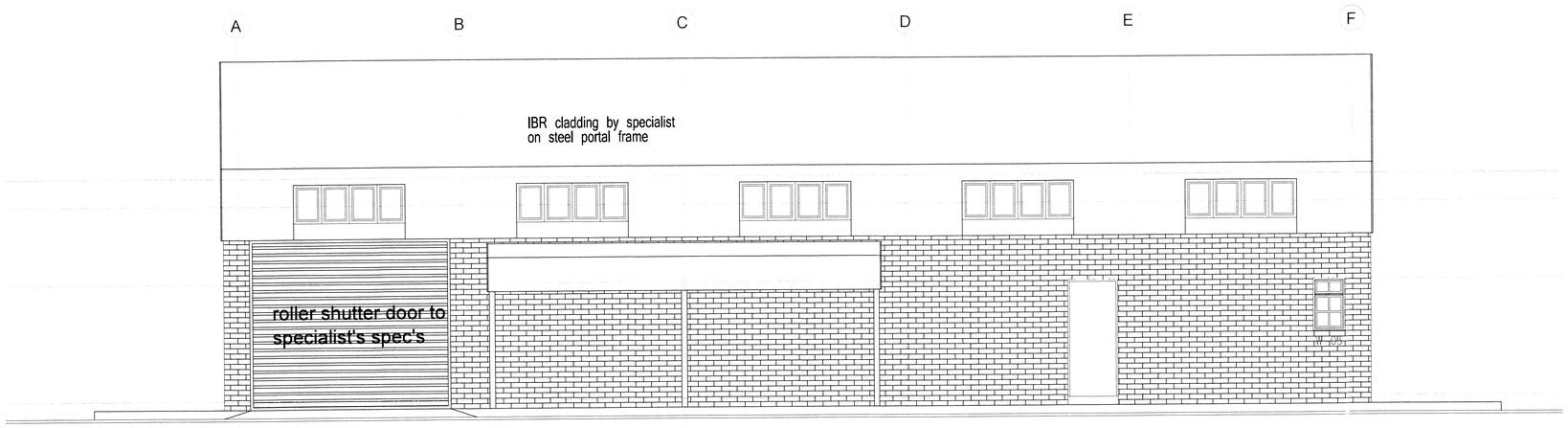
DRAWING TITLE:

BUY BACK CENTRE
SCHEDULES

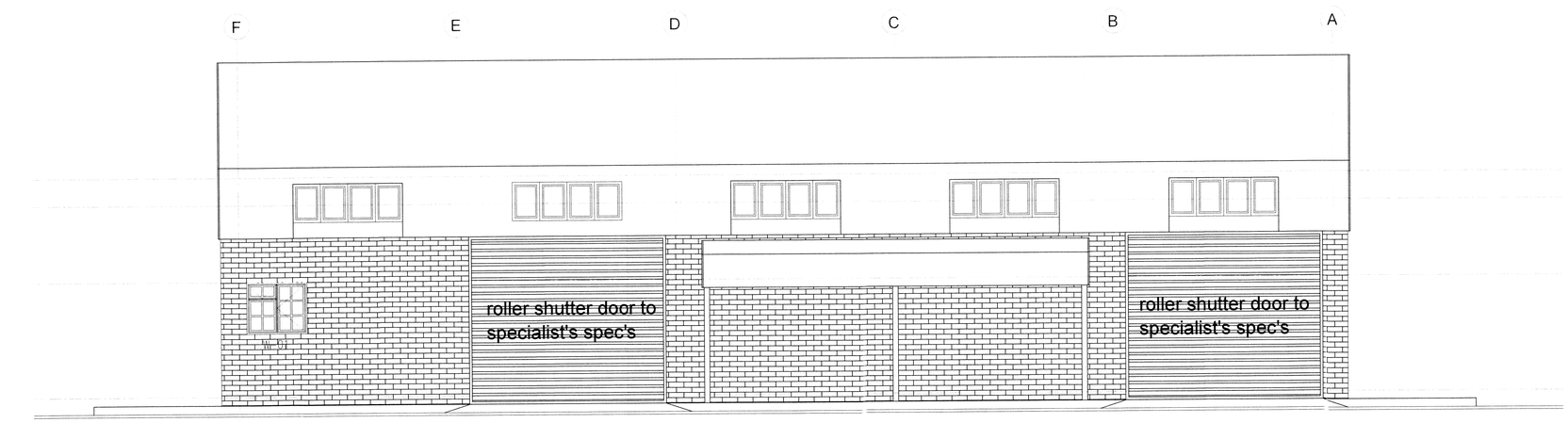
SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	E . T
DRAWN BY:	E . T
DRAWING NO.	REVISION
ARC_QWA_WD_402	00



BUY BACK CENTRE
SIDE ELEVATION
SCALE 1 : 50



BUY BACK CENTRE
BACK ELEVATION
SCALE 1 : 50



BUY BACK CENTRE
FRONT ELEVATION
SCALE 1 : 50

BUILDING CONTROL
APPROVED
2015 -06- 19
MALUTI-A-PHOFUNG

REVISIONS

No	DATE	BY	

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:

CONSULTANT:

ALL GREEN ENVIRONMENTAL
CONSULTANT CC

ADDRESS:

Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ARCHITECTURAL

PROJECT:

PROPOSED
LANDFILL AND WASTE MANAGEMENT
SITE THE QWAQWA LOCAL
MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:

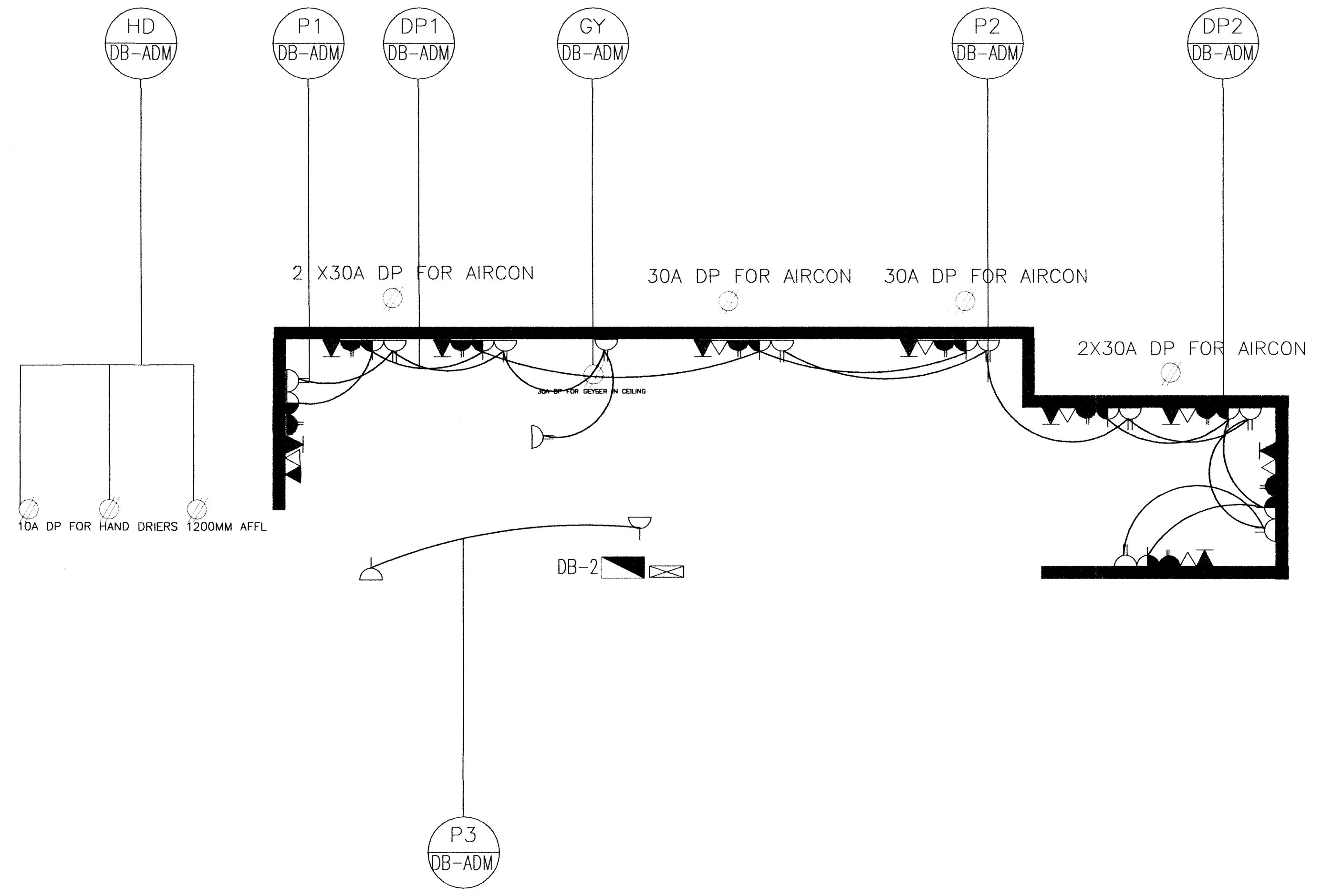
BUY BACK CENTRE
ELEVATIONS

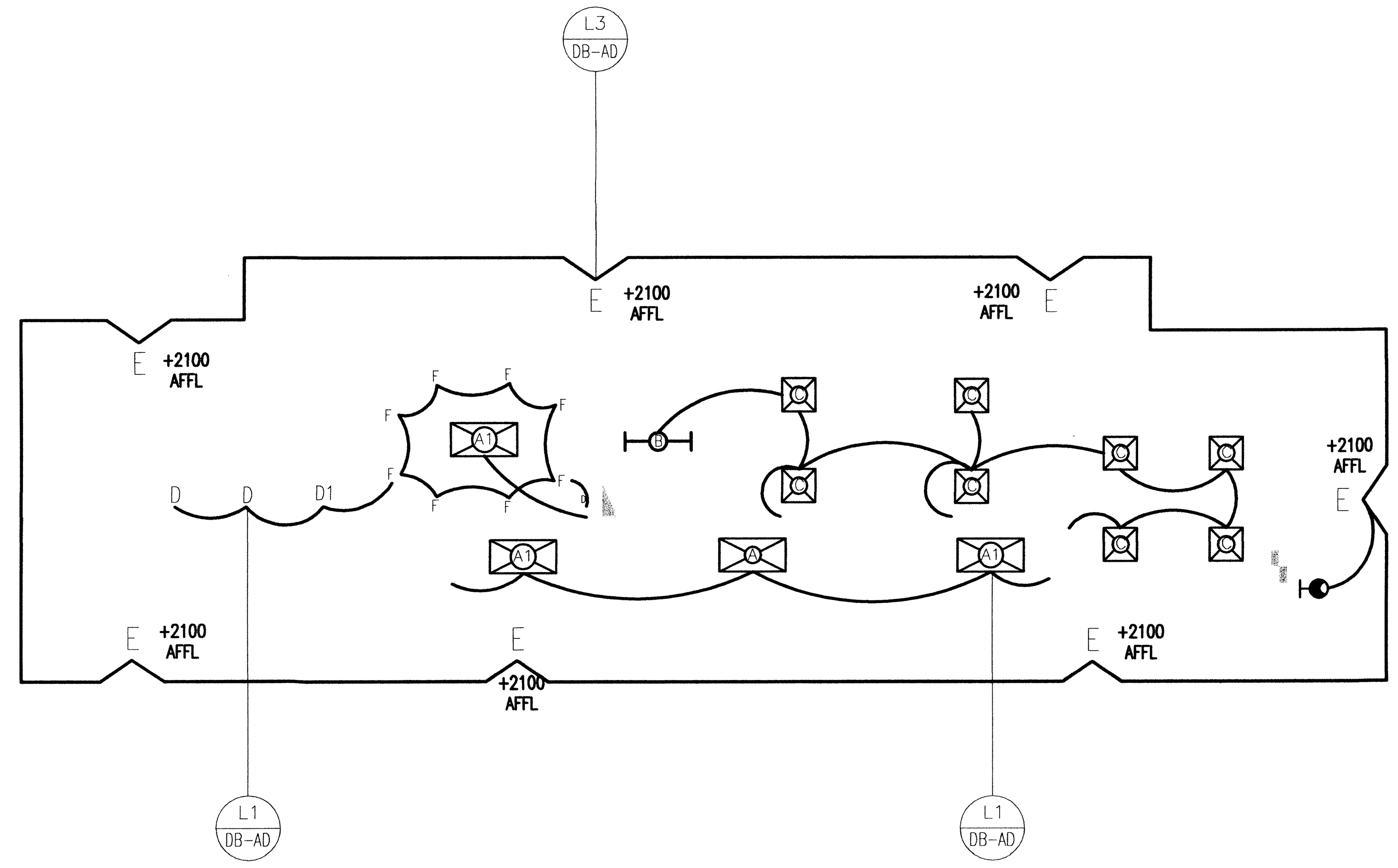
SCALE:	**AS SHOWN**
DATE:	**MAY 2014**
CHECKED BY:	**E . T**
DRAWN BY:	**E . T**
DRAWING NO.	**ARC_QWA_WD_300**
REVISION	**00**

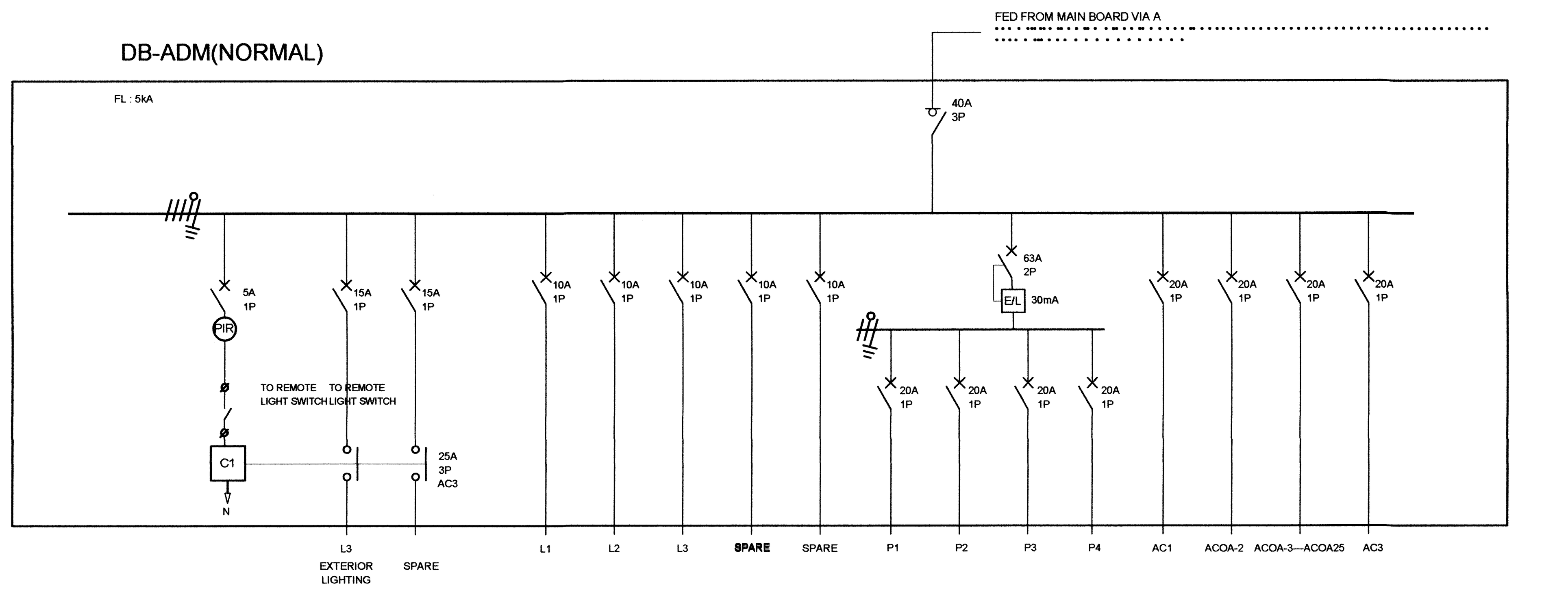
ARC_QWA_DD_001 | 00

1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.

BUILDING CONTROL
APPROVED
2015 -06- 19
MALUTI-A-PHOFUNG







4,0 x 2 (W)	4,0 x 2 (W)		1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	1,5 x 2 (W)	2,5 x 2 (C)	2,5 x 2 (C)	2,5 x 2 (C)	2,5 x 2 (C)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	4 x 2 (W)	CONDUCTOR (W) CABLE (C) SIZE (mm²)
4,0	4,0		1,5	1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	EARTH WIRE SIZE (mm²)

GENERAL NOTES

1. CONSTRUCTION :

1.1 DB SHALL COMPLY WITH REQUIREMENTS OF IEC439-1 (LV SWITCHGEAR AND CONTROLGEAR ASSEMBLIES)
1.2 DB'S SHALL BE SURFACE MOUNTED WITH LOCKABLE DOORS
1.3 CABLE & CONDUIT ENTRY : TOP & BOTTOM
1.4 FACE PLATES TO HAVE CHROME HANDELS FOR REMOVAL (2 OFF)
1.5 GLAND PLATES : 2mm THICKNESS
1.6 COMPARTMENTS SHALL BE INTERNALLY SEGREGATED TO IP4X. INTERCONNECTING CABLING SHALL BE ROUTED THROUGH GROMMETS
1.7 MODULAR CONSTRUCTION; eg. M & G PRISMA PLUS TYPE WILL BE PREFERED.

2. COLOUR :

2.1 FRAME INSIDE & OUTSIDE : ELEC ORANGE B26 EPOXY POWDER COATED
2.2 FACE PLATES : ESSENTIAL POWER COMPARTMENT RED
NORMAL POWER COMPARTMENT - ELEC ORANGE B26
UPS POWER COMPARTMENT - PURPLE

3. EQUIPMENT :

3.1 SQUARE KEY TURNLOCKS REQUIRED (2 OFF) ON EACH FACE PLATE.
3.2 ALL CIRCUIT BREAKERS TO BE OF MERLIN GERIN OR EQUAL AND APPROVED MANUAFACTURE.
3.4 BUSBARS TO BE COLOUR CODED WITH HEAT SHRINK INSULATION FOR FULL LENGTH.
3.5 EARTH BAR SIZE : 35mm x 6mm COPPER INSTALLED ACROSS TOTAL WIDTH OF DB.
3.6 MINIMUM EARTH WIRE CONNECTION BETWEEN LIGHTNING PROTECTION
MAX. LENGTH 400mm.
3.7 CHANGE-OVER SWITCHGEAR TO BE ELECTRICALLY AND MECHANICALLY INTERLOCKED.
3.8 SWITCHING CONTACTORS TO BE ABB TYPE A145 OR EQUAL AND APPROVED TYPE WITH NO & NC AUXILIARY CONTACTS.
3.10 ALL TERMINALS SHALL BE KLIPPON TYPE RSF 1 COMPLETE WITH LABELS.

4. LABELLING :

4.1 ALL LABELS SHALL BE ENGRAVED SANDWICH BOARD FIXED WITH METAL THREADED SCREWS
4.2 ALL INTERNAL EQUIPMENT TO BE LABELLED eg. FUSES, CONTACTORS etc.
4.3 EACH COMPARTMENT TO BE LABELLED WITH 20mm LETTERING.
4.4 MAIN DB LABELLING TO BE 30mm.
4.5 MCB's SHALL NOT BE NUMBERED; ENGRAVED LABELS REQUIRED :

LEGEND

ELECTRICAL LEGEND:

- ELECTRICAL DISTRIBUTION BOARD
- TELKOM DISTRIBUTION BOARD
- CIRCUIT IDENTIFICATION
- TV POINT
- 2 TIER TRUCKING/POWER SKIRTING
- INDICATOR LIGHT FOR STRONG ROOM
- TWO PIN PLUG
- SINGLE SSO
- DOUBLE SSO
- SINGLE DEDICATED OUTLET
- TELEPHONE OUTLET POINT
- DATA OUTLET POINT
- THREE PHASE POWER OUTLET
- SINGLE PHASE ISOLATOR
- THREE PHASE ISOLATOR
- PUBLIC TELEPHONE BOOTH

REVISIONS

No	DATE	BY	DESCRIPTION

OWNER'S SIGNATURE :

OWNER'S CONTACT No :

FOR CONSTRUCTION

CLIENT:
[redacted]

CONSULTANT:
ALL GREEN ENVIRONMENTAL CONSULTANT CC

ADDRESS:
Suite 8, Oxford Park
154 Zastron Street
Bloemfontein, 9300

DISCIPLINE: ELECTRICAL ENGINEERING

PROJECT:
PROPOSED
LANDFILL AND WASTE MANAGEMENT SITE THE QWAQWA LOCAL MUNICIPALITY,
QWAQWA, KZN

DRAWING TITLE:

OFFICE BLOCK ELECTRICAL

SCALE:	AS SHOWN
DATE:	MAY 2014
CHECKED BY:	E . T
DRAWN BY:	E . T
DRAWING NO.	REVISION
ELE_QWA_002	00