

BUILDING NO.	DESCRIPTION
A	Admin Block (13.1m x 7.7m)
B	4 Classroom block (32.7m x 11m)
C	4 Classroom block (32.7m x 10.6m)
D	Hall block (16.5m x 9.1m)
E	Ablution block (7m x 4.4m)
F	Ablution block (7m x 4.4m)
G	Ablution block (7m x 4.4m)
H	Kitchen block (9.2m x 5.2m)
I	Security Gaurd Office (2.5m x 2.5m)

CO-ORDINATES :
 LATITUDE : 29° 0'16.38"S
 LONGITUDE : 29° 32'11.93"E



GENERAL NOTES:

- All dimensions to be checked before work commences. Architect to be notified immediately of any discrepancies, errors, omissions, etc.
- Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm unless otherwise stated.
- All levels to be checked on site before any work commences.
- All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
- Damp proof course to comply with S.A.N.S. 10-400 requirements.
- All walls to be rendered with two courses brickwork & all wall and wall plate levels.
- Workmanship is to be of the highest standard throughout.
- The contractor is to locate and identify any / existing services and to protect these from damage whilst on site throughout the contract period.
- The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines, setbacks, etc.
- All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
- All materials to be used in strict accordance to manufacturers specification.
- Soil poisoning to be used under all new concrete work and new water tank stands.
- Sealed to be applied as directed, to Engineers detail.
- Polystyrenes to be installed as indicated in drawings, and to be confirmed on site.
- Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheathing, fascia, barge board, ceilings, trap doors and cornices), and to match existing where applicable.
- Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
- Soil Poisoning to be applied where specified, for all new work and existing where applicable, to manufacturer's specification and to Engineers detail.

NOTE:

- **All STRUCTURAL, CIVIL and ELECTRICAL** work to professional Engineers detail.
- **All STRUCTURAL, CIVIL & ELECTRICAL ENGINEERS** details to take preference over structural, civil & electrical details indicated on this drawing.

GENERAL SPECIFICATION / CONSTRUCTION NOTES:

ROOF:

All roofs are to comply with "Part L" of the S.A.N.S 10-400.

0.53mm thick, Aluminium-Zinc BFR (AZ150) profile 'colortrak' roof sheeting or other approved finish to both sides. (Colour on top to be confirmed and factory standard grey to underside), or similar approved. Sheets to be fixed to every purlin using appropriate self-drilling tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheathing requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

OR

0.53mm thick, Aluminium-Zinc Corrugated (AZ150) profile 'colortrak' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top to be confirmed and factory standard grey to underside). Sheets to be fixed to every purlin using appropriate self-drilling tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber trusses (or existing). Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheathing requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

OR

0.53mm thick, Aluminium-Zinc Klapak 700 (AZ150) profile 'colortrak' interlocking roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site where matching existing. (Colour on top to be confirmed and factory standard grey to underside). Sheets shall be fixed to every purlin using galvanized steel 'KL700' clips. 'KL700' clips to be fixed to purlins using the appropriate self-drilling tapping screws. At the ridge and eave purlins, fixing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber trusses (or existing). Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (to manufacturers specification as per sheathing requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

General roof notes:

Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled with care, no scratching or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheetling to be installed by manufacturer approved installer. Manufacturer to inspect sheeting after installation and supply certification.

Reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties FR405 or Similar approved) over trusses and under purlins on training tape on both ends.

Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6m long galvanised hoop iron straps built into brickwork as per S.A.N.S. 10-400 requirements prior to erection of trusses. Reflective foil insulation not to extend into eaves. Reflective foil insulation to be installed where specified. Trusses spaced as per engineers specification and resting on 114 x 38mm wall plates.

Hurricane clips to be used at all purlin truss nodes, and to be doubled at eave and ridge purlins (where applicable), as directed on site.

- Polyclosures (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyclosures are to be installed at the ridge and eaves. Where a portion of sheeting is being replaced, or the ridge is being re-installed or replaced polyclosures are to be added at the ridge only.

- Brastrulle closure or similar approved to be installed for all BFR and Klapak roof sheeting at the ridge, profile, colour and material to match the roof sheeting.

Flexible was and resin impregnated polyurethane foam to be installed at the ridge when installing ridge cap (Corrugated roof sheeting) and/or brastrulle closure and ridge cap (BFR and Klapak roof sheeting). Roof pitch to match existing and be confirmed on site.

- All exposed timber to be painted with carbolineum, painting to be completed prior to installation.

- Appropriate ridge cap to be installed as per roof sheeting specification. Colour to match roof sheet.

- 114 x 38mm timber rafters to be installed, at every alternative truss for the full length on both sides of the eave (fascia board support) as well as both gable ends (barge board support).

- Beam (l) purlins to be installed at ridge and gable ends, as directed on site.

- Roof sheeting as specified above or similar approved.

- Roof Screws:

Timber application with corrugated sheeting: 12x65 timberfix hex head washer EPDM seal.

Timber application with BFR sheeting: 12x65 timberfix hex head washer EPDM seal.

new roofs to use these screws with the washer (20mm) supplied by the supplier, existing roofs to use the beveled metal/rubber washer.

- Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be directed on site.

- A220 re-enforced aluminium foil tape to be added on the underside and on top of isolation where sheets overlap on both sides.

AIR-BRICKS:

229 x 150mm Terra-cotta worm proofed air-bricks, or similar approved built into brick beam fill. Install as specified on drawings, or similar approved.

BARGE BOARD:

Fibre cement 225mm x 10mm fascia boards, joined together with 225mm x 10mm Plastic H-Profile Fascia Joints. Fix 76 x 50mm timber trimmer battens to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer battens with hot-dipped galvanised screws and washers. 200 x 100mm aluminium fastening fixed on. Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD:

Medium density plain fibre cement 225 x 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joints. Drill for and fix with hot-dip galvanised drive screws and washers. Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

PREPARE AND PAINT BARGE & FASCIA BOARDS WITH UNIVERSAL ENAMEL AS DESCRIBED BELOW:

SURFACE PREPARATION:
 Ensure that substrates as well as primed and undercoated surfaces are clean, sound and dry.

NEW WORK:
 Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER. Apply liberally in order to obtain an uniform barrier coat to seal surface properly.

UNDERCOAT:
 To all surfaces prepared and primed as above, apply a coat of UNIVERSAL UNDERCOAT.

APPLICATION:
 Apply one or more coats to achieve complete obliteration. Colour to Architects choice.

GUTTERS:

150 x 100mm seamless aluminium gutters with end covers and drop box. Gutters to be adequately supported and fixed to building (or otherwise stated on drawings, to match existing).

DOWN-PIPES:

100 x 75mm seamless aluminium down-pipe. Down-pipe to be adequately fixed to wall. Shoes to be provided to bottom of down-pipes.

CEILING:

When thick fibre cement plain boards, fixed to 38 x 50 x 50mm timber bracing at max 600mm centres with timber cover strips at joints. Cross bracing to be used at 150mm centres at joints, ends of eaves, cornices and gable gables. All nail heads to be stopped & sanded level and fixed to trusses at max 1400mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and nail with a good adhesive. Ceiling and cornice to be prepared adequately and primed 2 coats Super Acrylic Polvin matt WHITE paint. Items as above or similar approved.

CEILING TRAP DOORS:

Provide 1 x 900 x 900mm fibre cement trap door. Item indicated on drawings and position to be confirmed on site.

WALLS:

All walls are to comply with "Part K" of the S.A.N.S 10-400.
 New walls or infill walls to match existing, brick or block walls to be constructed as per construction standards, to be indicated by responsible individual as required.
 All founding and / or retaining walls to Structural Engineers details.
 P.C. blocks to be installed over all new openings where walls to be constructed on site, as specified on drawings and to be confirmed on site.
 All fire walls to underside of roof sheeting. Walls to be constructed as per existing and where specified.
 Wall stitching to be strictly in accordance to Engineers detail.

MASONRY WALL: INTERNAL AND EXTERNAL (PLASTER & PAINT)

NEW PLASTERED WALLS:
 Two coat steel trowelled rendered plaster with smooth finish. Prepare and paint walls as specified below. Prepare and paint with a water based satin finish paint as described below.

SURFACE PREPARATION:
 Ensure that substrates as well as primed and undercoated surfaces are clean, sound and dry.

NEW WORK:
 Prime with PLASTER PRIMER or MULTI-SURFACE PRIMER to form an uniform barrier coat to seal alkaline surfaces properly.

FILLING:
 Fill defects with a good wall crack filler as appropriate.

APPLICATION:
 Water based paint is ready for use and is best applied by brush. Apply generous full coats so that brush marks flow out to a smooth even coat. Apply one or more coats to achieve complete obliteration. Paint colour to match existing and to be confirmed on site.

FLASHING / WATERPROOFING:

Aluminium flashing and paint on waterproofing membrane or similar approved to be installed as specified on drawings, colour to match sheeting finish.

GMS POST:

1000 gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screwed, using basing appropriate base plate and to be fixed to truss or beam above using appropriate channel.

WINDOWS:

New windows to be hot dipped galvanised steel windows or to match existing as indicated on drawings, to be confirmed on site. All new windows to be installed with firm toughened safety glass. Putty to be painted to match window frame, colour to be confirmed on site.

GLAZING PANELS:

New glazing panels to be firm Toughened safety glass. New putty to be installed as per manufacturers specifications, hardware to be applied once putty is smooth and applied correctly. Putty to be painted to match existing window frame, colour to be confirmed on site. All glazing to be measured and confirmed on site prior to installation.

DOORS:

New doors as indicated on schedule, to be confirmed on site. All external doors to be solid meranti hardwood, internal doors to be hollow core.

SKIRTING:

150mm x 75mm Meranti skirting, or similar approved with 150mm timber quadrant sanded smooth and pre-ventilated in mitre-joint, then fixed to wall. Item as above or similar approved as required on drawings.

FLOOR COVERING:

Refer to drawings for location of new floor covering.
 Supply and fix 2.5mm thick x 300mm x 300mm semi-flexible vinyl tiles, manufactured in accordance with SANS 181, laid in acrylic adhesive, spread with a 'Vibron A247' trowel at the rate of between 5.5m² and 6.5m² per litre, depending on the sub floor porosity, laid on screed to fall, made with waterproof adhesive.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good flume and then sealed with 3 coats of a good Sealer.

The colour to be confirmed, item as above or as per existing.

OR

Screed floors to Engineers detail, includes removal of existing screed and application of new. Above is as specified on drawings.

IN-SITU CHANNELS:

Concrete aprons and v-drains laid to fall and in panels, not exceeding 1.8m in length with control joints as specified by engineer on hot compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polyurethane sealant with backing strip and impregnated softboard. All to Engineers detail.

Ex. in-situ channels (v-drains and aprons) where action needs to be taken due to vegetation growth, then the following shall apply. Excess soil / vegetation to be removed from the gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polyurethane sealant (with backing strip and impregnated softboard where applicable), to be confirmed on site, to Engineers detail.

BACKFILL:

Filling to be approved clean earth, well watered and rammed in layers not exceeding 150mm in depth and thoroughly consolidated, all to Engineers detail.

WATER TANK AND PLINTH:

Water tank plinths constructed to Engineers detail, with 2500 litre polyethylene water tank with 25mm ball valve with 2500mm steel down with hot-dipped galvanised wire tied to eye hooks cast into concrete slab. All to Engineers detail. Tap to be installed as per manufacturer's instruction. Rainwater downpipes to be inserted as indicated on drawings and supplied with overflow pipe and lid with vermin proof vent. Threaded PVC ball valve tap to be installed as per BCO. Screwed to ball around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corabrick® (Lewley Gauteng) 20-30 MPa Montana Townstone FSB clay facebrick, bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints and perpends, suitable for exposure zones 1-2.
 Brickwork of NF3 bricks (14 MPa nominal compressive strength) in class II mortar.

ELECTRICAL:

Electrical as per drawings, to match existing where appropriate and to be confirmed on site.

SECURITY GATE AND BURGLAR FLAT BARS:

Galvanised gate to be installed as directed on site, drawings to be provided.
 Burglar bars - 30mmx20mm gns flat bars to be welded to the existing window frame, all welding joints to be treated with a protective anti-rust protection spray or cold galvanised paint coating as per manufacturers specifications.

CHALKBOARD:

1440mm (high) x 2400mm (long) wall mounted board, complete with aluminium chalk rail and fixing brackets plugged and screwed to wall as per manufacturer's instructions.

CHALK BOARDS REPLACED WITH WHITE BOARDS:

Fixed projection white board (NON REFLECTIVE). Aluminium framed, magnetic chalk board (without any lines or graphics etc) with heavy duty hinges and one complete aluminium pen tray for the full length of the centre board. Centre board sizes to be 2420x1220mm with saving leaf. Chalk boards sizes to be 1220x1210mm. Aluminium pen tray length 2200mm fitted to Centre board.
 1 Complete full set of magnetic starter pack, consisting of the following for each board supplied:
 4 white board markers Red, Green, Black, Blue,
 1x Cleaning Cloth
 1x Magnetic Eraser
 1x Cleaning Fluid 250 ml
 4 x moulded magnets if dry







PINING BOARD:

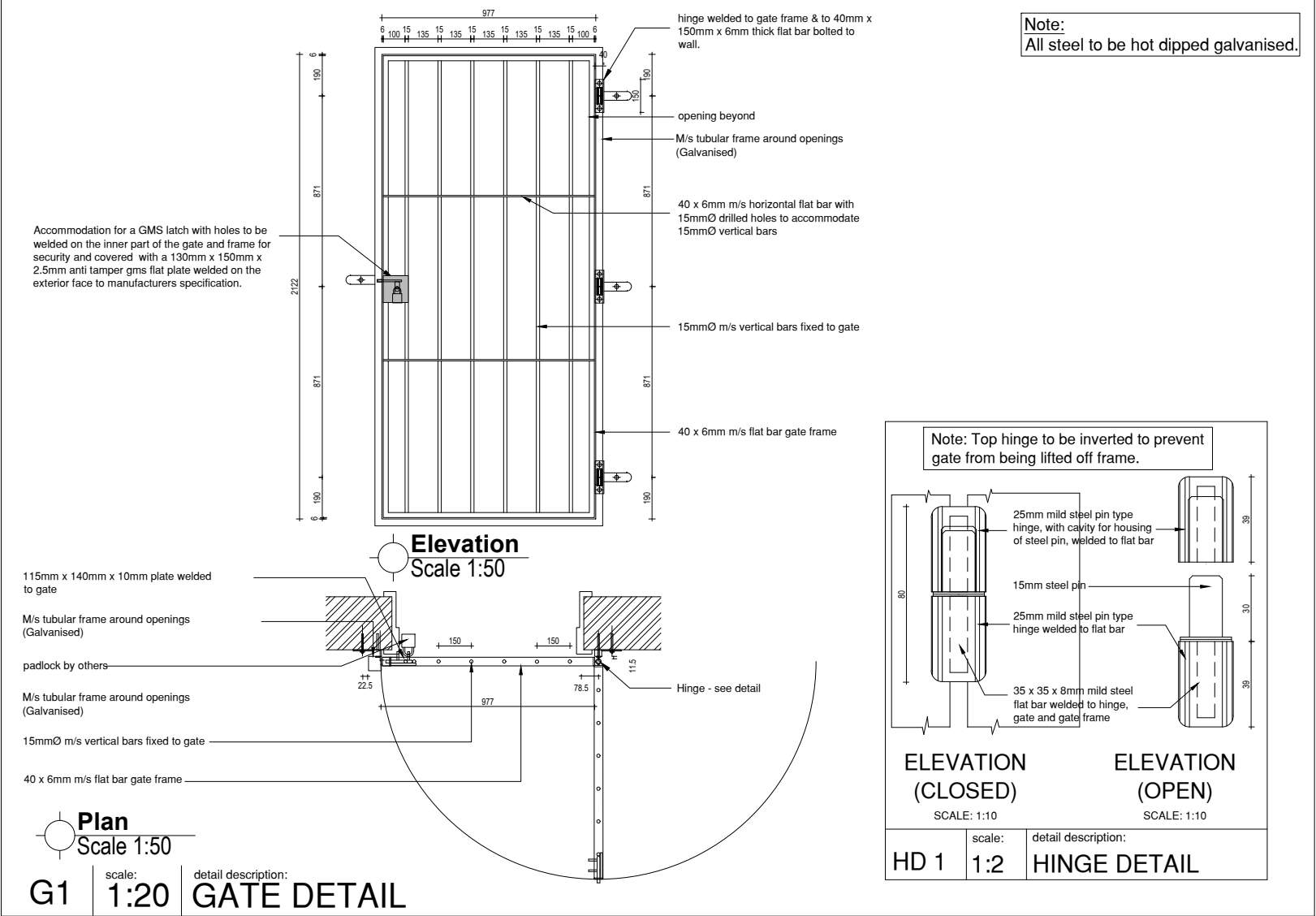
1200mm (high) x 2400mm (long) wall mounted board, complete with aluminium edges and fixing brackets plugged and screwed to wall as per manufacturer's instructions.

DADO RAILS:

New 150mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm o/c with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purposes. All fixing holes to be covered with a wood filler and sanded smooth before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, subjected, to match all table and chair heights on site.

All information is to be confirmed on site and directed by the responsible individual, items as above or similar approved, and to match existing where applicable. Any discrepancies to be brought to the consultants attention prior to the commencement of any work.

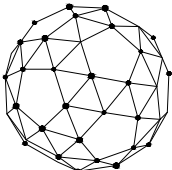
		
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KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:



Signature: Date:



public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:
**PHASE 14: REPAIRS AND RENOVATIONS TO
STORM DAMAGED SCHOOLS - KZN MIDLANDS
REGION - CLUSTER 99 - ZUZIMFUNDO JUNIOR
PRIMARY SCHOOL**

Drawing Description:

GATE DETAIL

Drawn: Trishaan Singh Date: 2020/01/04

Checked: Clayton Human Date: 2020/06/22

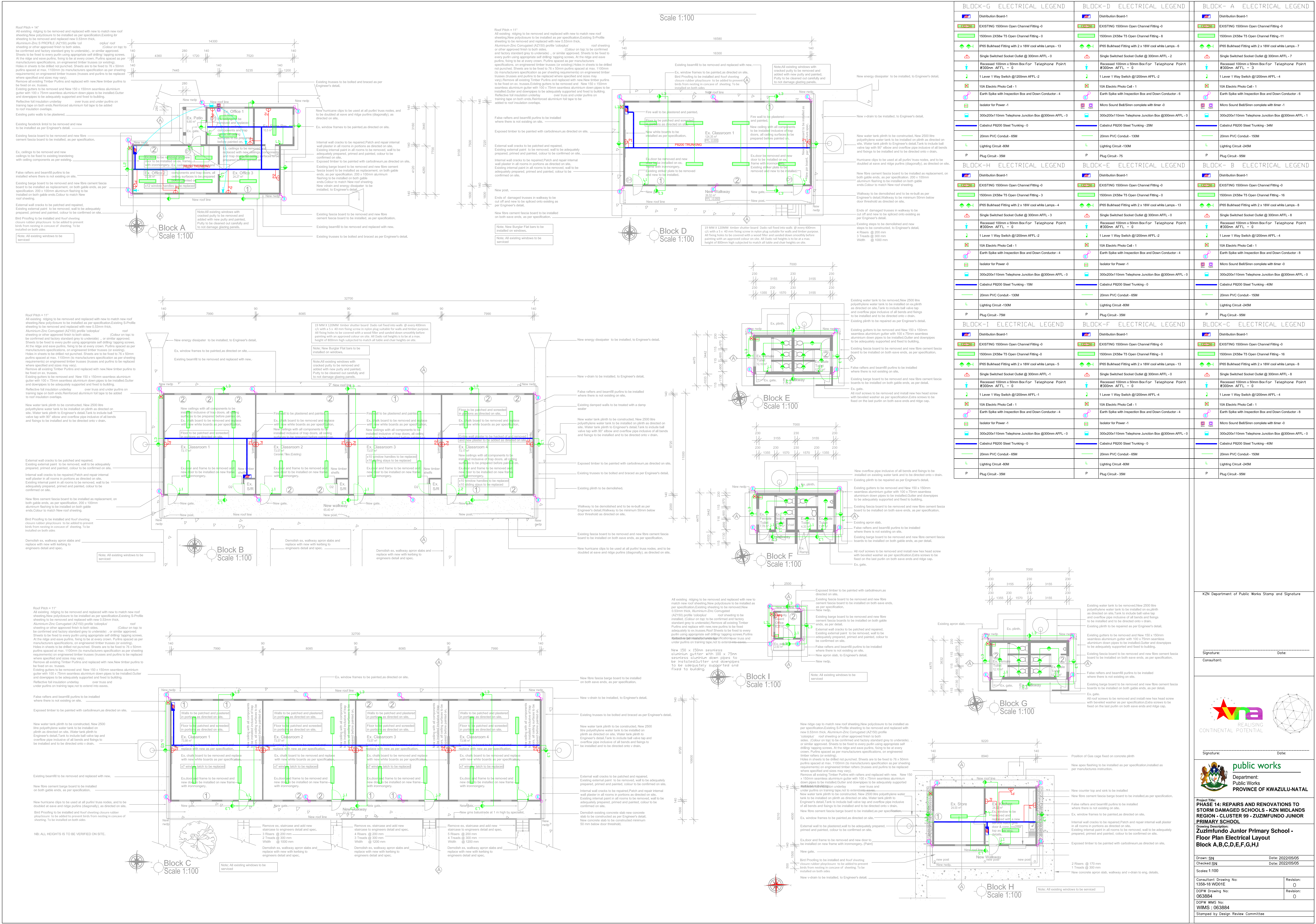
Scales:AS SHOWN

Consultant Drawing No:
1358-18 WD06 Revision:
.

DOPW Drawing No:
063884 Revision:
.

DOPW WIMS No:
WIMS : 063884

Stamped by Design Review Committee



KZN Department of Public Works Stamp and Signature

Signature: _____ Date: _____

Consultant: _____

Signature: _____ Date: _____

public works

Department: PROVINCE OF KWAZULU-NATAL

Project Title: PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 99 - ZUZIMUNDO JUNIOR PRIMARY SCHOOL

Drawing Description: Floor Plan Electrical Layout Block A,B,C,D,E,F,G,H,I

Drawn: SN Date: 2022/05/05

Checked: SN Date: 2022/05/05

Scale: 1:100

Consultant: Drawing No: 1358-18 WD01E Revision: 0

OPW Drawing No: 063894 Revision: 0

OPW WMS No: WIMS : 063894

Stamped by Design Review Committee



BUILDING NO.	DESCRIPTION
A	Admin Block (13.1m x 7.7m)
B	4 Classroom block (32.7m x 11m)
C	4 Classroom block (32.7m x 10.6m)
D	Hall block (16.6m x 9.1m)
E	Ablution block (7m x 4.4m)
F	Ablution block (7m x 4.4m)
G	Ablution block (7m x 4.4m)
H	Kitchen block (9.2m x 5.2m)
I	Security Gaurd Office (2.5m x 2.5m)

REV	DATE	DESCRIPTION																		
<h2>GENERAL</h2> <p>1. ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 2001-COI-VAND THE PROJECT SPECIFICATIONS IN THE CONTRACT DOCUMENTATION.</p> <p>2. THE CONTRACTOR SHALL ENSURE THAT WATERPROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL REINFORCING MATERIAL. DUE TO DAMAGE FOR CONTRACTOR'S COST.</p> <h2>FOUNDATIONS AND EARTHWORKS</h2> <p>1. ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH SANS 1200 AND THE LATEST REVISIONS.</p> <p>2. ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PROCEEDING WITH ANY CONCRETE POURING, BLINDING, WATERPROOFING OR GEOBARBIC MEMBRANE.</p> <p>3. NO FOUNDATION SHALL BE CAST ON NON-ENGINEERED FILL OR BACKFILL. MATERIAL PORTIONS THAT ARE OVER-ELEVATED BEYOND THE DEPTH REQUIRED BY THE GEOTECHNICAL / RESIDENT ENGINEER, TO BE FILLED WITH MASS CONCRETE (DENSITY 1500kg/m³) AT THE CONTRACTORS EXPENSE.</p> <h2>BRICKWORK & BLOCKWORK:</h2> <p>1. ALL BRICKWORK, BLOCKWORK/ ANCHORS, WALL TIES AND STRAPS SHALL BE IN ACCORDANCE WITH SANS 5405 – 1090 AND SANS 1164 – 1880 INCLUDING THE LATEST REVISIONS.</p> <p>2. THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.</p> <p>3. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS I MORTAR IN ACCORDANCE WITH TABLE 1 SANS 5405-1090.</p> <p>4. LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED STEEL REINFORCEMENT EVERY FOUR LAYER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.</p> <p>5. BRICKWORK SHALL BE CONSTRUCTED IN EVERY LAYER FOR THE FIRST FOUR LAYERS ON TOP OF THE FOUNDATIONS & SLABS AS WELL AS OVER DOOR AND WINDOW OPENINGS (MIN. LAP = 300mm).</p> <p>6. ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE WHERE REQUIRED.</p> <p>7. V-JOINTS ARE TO BE MADE THROUGH PLASTERWORK WHERE PLASTERED, BLOCKWORK AND CONCRETE JOIN.</p> <h2>CONCRETE:</h2> <h3>CONCRETE GRADES:</h3> <table border="0"> <tr> <td>REINFORCED CONCRETE</td> <td>=</td> <td>30 MPa/15mm</td> </tr> <tr> <td>MASS CONCRETE</td> <td>=</td> <td>20 MPa/15mm</td> </tr> <tr> <td>BLINDING</td> <td>=</td> <td>15 MPa/15mm</td> </tr> <tr> <td>CONCRETE CASTING BEDS</td> <td>=</td> <td>30 MPa/15mm</td> </tr> </table> <p>2. TO X-20 CHAMFER TO BE PROVIDED ON ALL EXPOSED EDGES</p> <p>3. CONVEY TO THE PUMP</p> <h3>FLOR & FLOOR SLABS</h3> <table border="0"> <tr> <td></td> <td>=</td> <td>25mm</td> </tr> <tr> <td>FOUNDATION BASES</td> <td>=</td> <td>50mm</td> </tr> </table> <p>4. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-COI.</p> <p>5. CONCRETE TOLERANCE IN GENERAL SHALL BE OF DEGREE OF ACCURACY AS SPECIFIED ON SANS 2001-COI.</p> <p>6. ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND FORMWORK OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORKING.</p> <p>7. THE CONTRACTOR MUST CO-ORDINATE ALL SERVICES DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL OR OTHER SERVICES.</p> <p>8. THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE ENGINEER BEFORE ANY OPENING OR SERVICES LARGER THAN 150 mm DIA OR 150 x 150 mm WHICH ARE NOT INDICATED ON THE DRAWINGS MAY BE INTRODUCED THROUGH ANY STRUCTURAL ELEMENT.</p> <p>9. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 2001-COI.</p> <p>10. THE STRENGTH OF CONCRETE COVER BLOCKS SHALL AT LEAST BE EQUAL TO THE CONCRETE STRENGTH OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE USED. THE SIZE AND FIXING METHOD OF COVER BLOCKS SHALL BE DISCUSSED IN ADVANCE WITH THE ENGINEER.</p> <p>11. STOPPING TIMES OF SHUTTLING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 2001-COI.</p> <p>12. CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE INCLUDING SCREED MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CASTING OF ANY CONCRETE.</p> <p>13. COLD CONSTRUCTION JOINTS: MAIN AGGREGATE MUST BE POSITIONED TO CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CASTING OF ANY CONCRETE.</p> <p>14. CASTING OF NEW CONCRETE: NO CEMENT GROUT SHALL BE USED. LOCATION OF JOINTS TO BE APPROVED BY THE ENGINEER IF DEVIATED FROM THE DRAWINGS.</p> <h2>SURFACE BEDS:</h2> <p>1. PROVIDE 125mm ISOLATION JOINTS (I.J.) AROUND ALL CONCRETE COLLARS AND AGAINST BRICK WALLS. AFTER CONCRETE HAS SET, JOINTS TO BE RAISED OUT 10mm DEEP OF CONCRETE AND COVERED WITH JOINT SEALANT – REFER TO STANDARD DETAILS.</p> <p>2. ALL BACKFILL TO BE DONE AS SOON AS CONCRETE IS FIRM ENOUGH TO NOT DAMAGE THE EDGES. USUALLY BETWEEN 6 TO 16 HOURS.</p> <p>3. ALL BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm. BE COMPACTED EFFORT AS INDICATED</p> <p>4. FLOOR SLABS ARE WOOD FLOAT FINISHED AND SCREED TOPPING TO HAVE A STEEL TROWEL FINISH</p> <h2>REINFORCEMENT:</h2> <p>1. ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 820-2011.</p> <p>2. THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CASTING OF CONCRETE MAY COMMENCE.</p> <p>3. THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS (3 DAYS) NOTICE TO THE ENGINEER FOR REBAR INSPECTION THAT ARE REQUIRED.</p> <p>4. REINFORCEMENT SHALL BE APPROVED BY THE ENGINEER SHALL BE EXENT OUT WITH A SUTTABLE PIPE SO THAT NO KINK IS FORMED IN THE BARS.</p> <p>5. NO HEAT TREATMENT, FLAME CUTTING OR WELDING OF REBAR SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE ALLOWED.</p>			REINFORCED CONCRETE	=	30 MPa/15mm	MASS CONCRETE	=	20 MPa/15mm	BLINDING	=	15 MPa/15mm	CONCRETE CASTING BEDS	=	30 MPa/15mm		=	25mm	FOUNDATION BASES	=	50mm
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KZN

Deparment of Education Stamp and Signature

Signature:

Date:

REALISING
CONTINENTAL POTENTIAL

Signature:

Date:

public works

Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:

PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 99 - ZUZIMFUNDO PRIMARY

Drawing Description:

Illustrate Site Plan of Engineering works for Zuzimfundo Primary School

Drawn: I.GAFOOR

Date: 2020/07/13

Scales: As Shown

Consultant Drawing No:

Revision:

V16-0538-0001a

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DOPN CONTRACT NO:

Revision:

DOPN WINS NO:

063884

Stamp by Design Review Committee