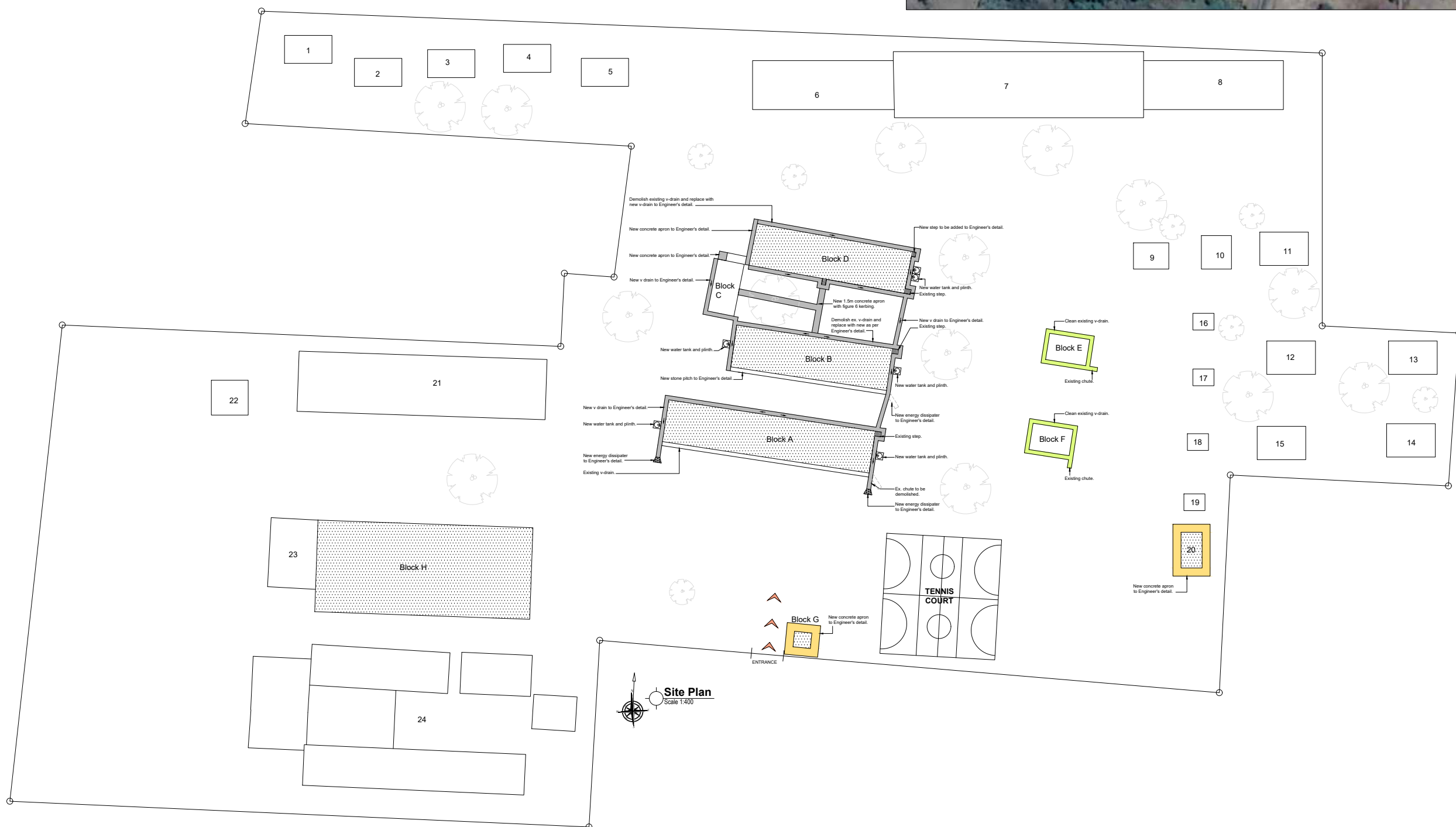
	
TYPE:	D1 - EXTERNAL DOOR (ND01)
FRAME:	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanneal. Not painted
DOOR:	2032 x 813 x 40mm Meranti Hard wood, edged, braced & battened door with 110 x 40mm stile & top rail, 150 x 20mm middle ledge, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V-jointed battens
DOOR FINISH:	Door: Sand smooth and dust off. Steel frosts with 'NOK' SEAL (PK 27), then prime with 'PLASCON WOOD PRIMER (UC 27)' then after apply one or more coats of 'Plascon DAMEL DOORS & TRIMS' to achieve complete coloration. Colour: Celigies, code: G 127.
FURNITURE:	Door set 1
NOTES:	Contractor to check n.o.s required against drawings and schedules. Any discrepancies to be brought to the Architects attention immediately.
SCALE:	1:50
DETAIL DESCRIPTION:	DOOR SCHEDULE

CO-ORDINATES
LATITUDE:
28°44'58.81"S
LONGITUDE:
30°24'59.58"E

BUILDING NO.	DESCRIPTION
A	4 Classroom Block (52m x 10.5m)
B	5 Classroom block (39.6m x 10.5m)
C	3 Room block (13.1m x 3.5m)
D	5 Classroom block (39.6m x 10.5m)
E	Ablution (6.2m x 9.2m)
F	Ablution (6.2m x 9.2m)
G	Guard House (2.5m x 2.5m)
H	Hall & hostel kitchen (55m x 23m)
Block 1-5	Teachers cabins (6.7m x 10.8m)
Block 6	Male res.(8.6m x 33.5m)
Block 7	Male res.(60.66m x 13.6m)
Block 8	Male res.(8.6m x 33.7m)
Block 9	Shed (8.3m x 4.5m)
Block 10	Cabins (6.7m x 6.5m)
Block 11	Cabins (10.8m x 6.7m)
Block 12-15	Teachers Cabins (10.8m x 6.7m)
Block 16-19	Storage sheds (3.6m x 5.8m)
Block 20	Store Room 10.2m x 3.2m
Block 21	Female res. (60.66m x 13.6m)
Block 22	Sub station
Block 23	Mechanical plant
Block 24	Abandoned res.



KZN Department of Public Works Stamp and Signature

Signature: _____ Date: _____
Consultant: _____

Signature: _____ Date: _____

Project Title:
**PHASE 14: REPAIRS AND RENOVATIONS TO
STORM DAMAGED SCHOOLS - KZN MIDLANDS
REGION - CLUSTER 111 - MSINGA HIGH**Drawing Description:
Site Plan for Msinga High School

Drawn: T. Singh Date: 2018/11/13

Scale: 1:100

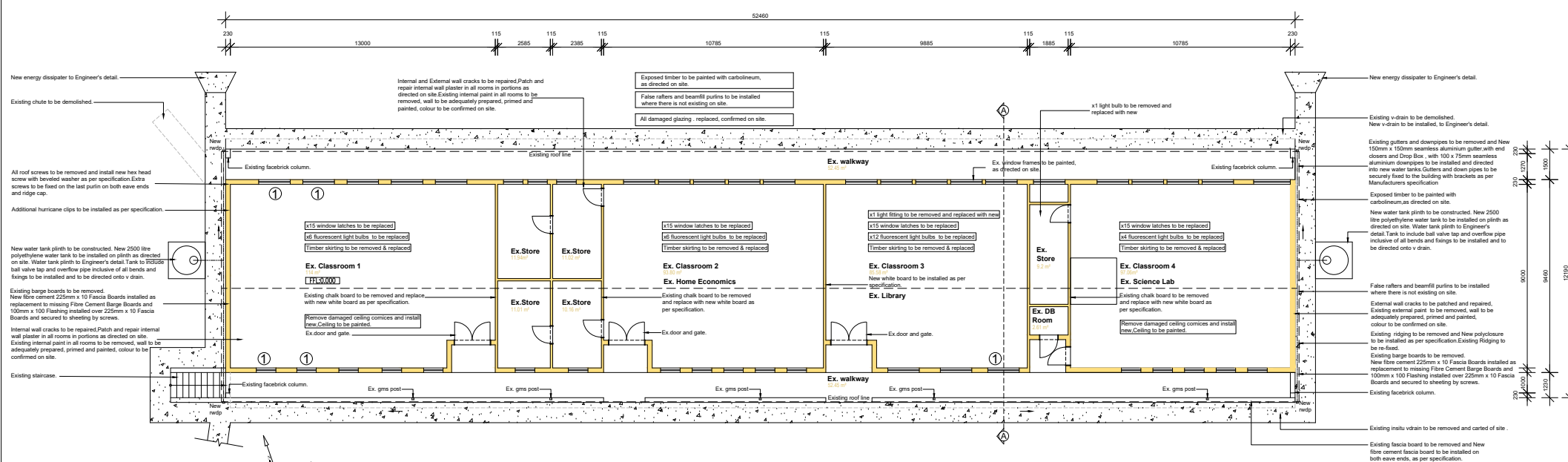
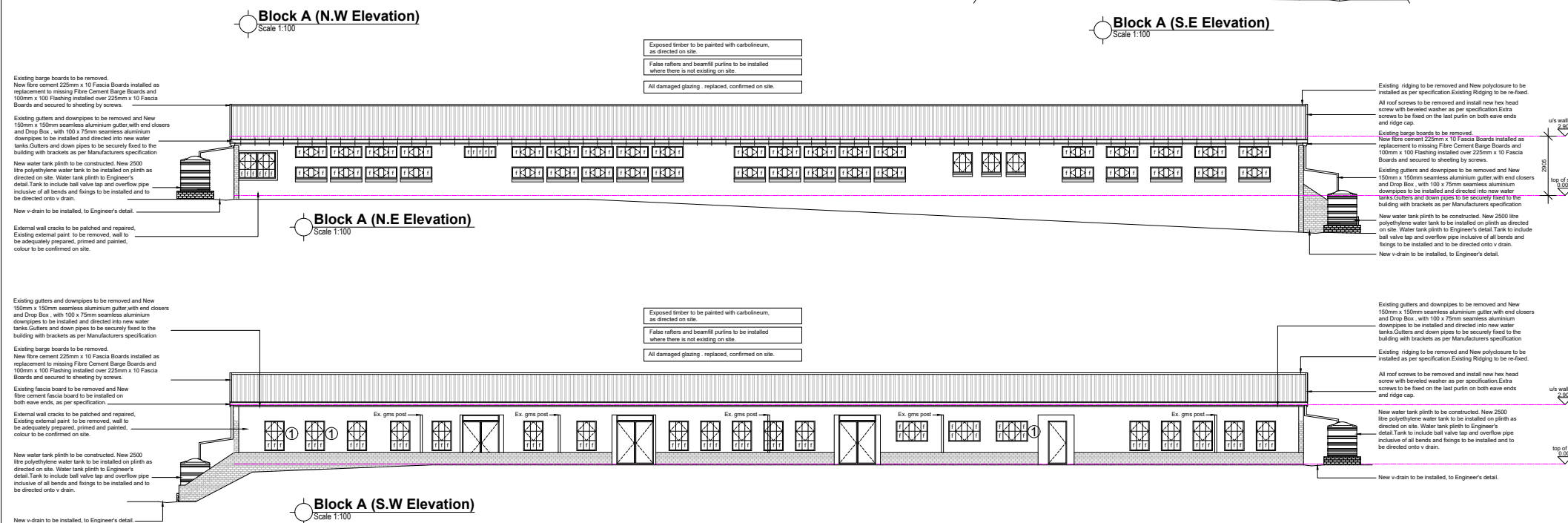
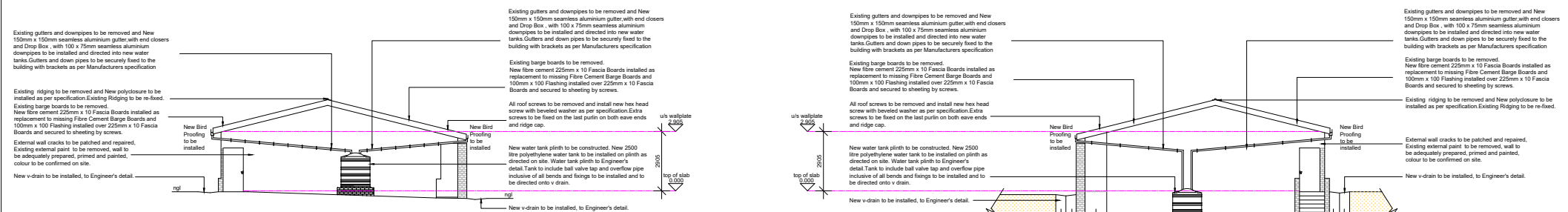
Consultant Drawing No: 1370-18 WD01 Revision: .

DOPW Drawing No: 063832 Revision: .

DOPW WMS No: WIMS : 063832

Stamped by Design Review Committee

LEGEND	DESCRIPTION
	Number inside of circle indicates the number of glazing panels . replaced.



- 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 reinforced with two courses brickbats at all end and wall plate levels.
 - Workmanship is to be of the highest standard throughout.
 - The contractor is to locate and identify any all 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, servitudes, 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 pitting to be used under all new concrete work and new water tank stands.
 - Screen to be applied as directed to, Engineers detail.
 - Polyisocyanurate 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 sheeting, fascia, barge board bracing, 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 Pitting 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.

0.5mm thick, Aluminium-Zinc IRR (A2150) profile 'valisnap' roof sheeting or other approved finish to both sides, (Colour and texture 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 and purlins to be replaced where specified and sizes may vary).

Holes in sheets to be drilled not punched. Sheets are to be fixed to 76 x 50mm purlins spaced at max. 1100mm (no manufacturers specification as per sheathing requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).

OR

0.5mm thick, Aluminium-Zinc Compagated (A2150) profile 'valisnap' 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 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 (trusses and purlins to be replaced where specified and sizes may vary).

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0.5mm thick, Aluminium-Zinc IRR (A2150) profile 'valisnap' 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 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 (trusses and purlins to be replaced where specified and sizes may vary).

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

Reflective foil insulation under/over/intermittent, durable, double sided reflective foil laminate with advanced fire retardant properties FR405 (or similar approved) over trusses and under purlins on trussing type on both ends.

Roof trusses to be fixed down to walls with 10mm x 1.6mm thick and 1.6m long galvanised hook iron strips bolted 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 are to be used at all purlin /truss nodes, and to be doubled at eave and ridge purlins (Happanage), as directed on site.

-Polyisocyanurate (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyisocyanurate is 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 polyisocyanurate is to be added at the ridge only.

-Broadsheet closure or similar approved is to be installed for all IRR and Kijipak roof sheeting at the ridge, profile, colour and material is to match the roof sheeting.

Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge cap (Compagated roof sheeting) under/broadsheet closure and ridge cap (IRR and Kijipak roof sheeting). Roof plate 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 false 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 18 purlins to be installed at ridges and gable ends, as directed on site.

-Roof sheeting as specified above or similar approved.

-Roof Screens:

Timber application with compagated sheeting: 12x65 timberfix head washer flange EPDM seal.

Timber application with IRR sheeting: 12x65 timberfix head washer flange EPDM seal.

New roofs to use these screens with the washer (26mm) 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.

-A202 re-enforced aluminium foil tape to be added on the underside and on top of siltation where sheets overlaps on both sides

AIR-BRICKS:
229 x 100mm Terra cotta vermin 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 timber battens, joined together with 225mm x 10mm Plastic H-Profile Fascia Joinsers, fix 7x 50mm timber trimmer battens to underside of purlin ends for barge board support. Drill for and fix fascia board to trimmer battens with hot-dipped galvanised screws and washers. 250 x 100mm aluminium flashing lead cap. Items 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 joiners. Drill for and fix with hot dip galvanised steel 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 unbroken barrier coat to seal surface properly.

FILLING: Fill defects with a good wall crack filler.

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

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 masonry 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 detail. P.C. finish to be installed over all new springings where walls to be repaired and painted. All free walls to underside of roof sheeting. Walls to be constructed as per existing and where specified. Wall sheeting to be strictly in accordance to Engineers detail.

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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. Or otherwise stated on drawings, to match existing.

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All walls are to comply with "Part K" of the S.A.N.S. 10-400. New walls or masonry 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 detail. P.C. finish to be installed over all new springings where walls to be repaired and painted. All free walls to underside of roof sheeting. Walls to be constructed as per existing and where specified. Wall sheeting to be strictly in accordance to Engineers detail.

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

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

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

WALL

LEGEND	DESCRIPTION
	Number inside of circle indicates the number of glazing panels replaced.

	<p>DOOR SET 1: Union L Lever Commercial Series Meritex lock 2247-7855 with UP on brass Gower Lever handles CB862-005 & C23717CH door stop fitted with counter-sunk lock into anchor bolt.</p>
TYPE:	D1 - EXTERNAL DOOR (ND1)
FRAME:	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanneal. Not painted
DOOR:	2032 x 813 x 40mm Meranti Hard wood, ledged, braced & battened door with 110 x 40mm styles & top rail. 150 x 20mm middle ledge, 25 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V-jointed battens
DOOR FINISH:	Door, Sand smooth and dust oil. Seal with "KNOT SEAL" (PK 21), then prime with "PLASCON WOOD PRIMER" (UC 21) then after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1 X4
NOTES:	<ul style="list-style-type: none">Contractor to check no's required against drawings and schedules.Any discrepancies to be brought to the Architects attention immediately
DS	SCALE: 1:50
	DETAIL DESCRIPTION: DOOR SCHEDULE

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 reinforcement 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 reinforced with two courses brickwork at all and wall plate levels.
- Workmanship is to be of the highest standard throughout.
- The contractor is to locate and identify any all 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 line servitudes, 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.
- Sill positioning to be used under all new concrete work and new water tank stands.
- Screed to be applied as directed, to Engineers detail.
- Polyisocyanurate 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 sheeting, fascia, barge board bracing, ceiling, trap doors and cornice), and to match existing where applicable.
- Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
- Sill Positioning 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.

- 0.5mm thick, Aluminium-Zinc IRR (A2150) profile 'velourak' roof sheeting or other approved finish to both sides. (Colour on top to be confirmed and factory standard grey to underside). Sheets to be fast to every purlin using appropriate self drilling tapping screws. At the ridge and eave purlins, facing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (or existing) or existing timber trusses.
- 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
- 0.5mm thick, Aluminium-Zinc Compagated (A2150) profile 'velourak' 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 fast to every purlin using appropriate self drilling tapping screws. At the ridge and eave purlins, facing to be at every crown. Purlins spaced as per manufacturers specifications, on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
- 0.5mm thick, Aluminium-Zinc Kipjak 700 (A2150) profile 'velourak' 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 galvanneal steel 'NL7007' clips. 'NL7007' clips to be fast in purlins using the appropriate self drilling tapping screws. At the ridge and eave purlins, facing to be at every crown. Purlins to be spaced as per manufacturers specifications, on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
- 0.5mm thick, Aluminium-Zinc Kipjak 700 (A2150) profile 'velourak' 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 galvanneal steel 'NL7007' clips. 'NL7007' clips to be fast in purlins using the appropriate self drilling tapping screws. At the ridge and eave purlins, facing to be at every crown. Purlins to be spaced as per manufacturers specifications, 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 scratched 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 properties FR4005 (Similar under) over trusses and purlins on trussing take on both ends.

- Roof trusses to be fixed down to walls with 30mm x 1.6mm thick and 1.6m long galvanneal hot iron strips built into brickwork as per S.A.N.S. 10-400 standard 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 plate.

- 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.
- Polyisocyanurate (polyethylene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polyisocyanurate is 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 polyisocyanurate is to be added at the ridge only.
- Broadfibre closure or similar approved is to be installed for all IRR and Kipjak roof sheeting at the ridge, purlins, colour and material is to match the roof sheeting.

- Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge cap (Compagated roof sheeting) or broadfibre closure and ridge cap (IRR and Kipjak roof sheeting).

- Roof purlin 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 false rafters to be installed, at every alternate rafter for the full length on both sides of the eave (barge board support) as well as both gable ends (barge board support).
- Beam lift purlins to be installed at ridges and gable ends, as directed on site.
- Roof sheeting as specified above or similar approved.
- Roof Screens:

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

- Timber application with IRR sheeting: 12x65 timberfix head washer flange EPDM seal.
- new roofs to use these screens with the washer (26mm) supplied by the supplier, existing roofs to use the bevelled metal/rubber washer.
- Gutter bolts to be added where there are excessive holes, that are not fixing holes, to be directed on site.
- A200 re-enforced aluminium foil tape to be added on the underside and on top of siltation where sheets overlaps on both sides

AIR-BRICKS:

- 200 x 150mm Terra-cotta vermin 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 Joiners, P4 76 x 50mm timber trimmer battens to underside of purlin ends for barge board support.
- Roof and fix fascia board to trimmer battens with hot dipped galvanneal screws and washers, 200 x 100mm aluminium flashing lead 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 joiners. Drill for and fix with hot dip galvanneal down 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 unbroken barrier coat to seal surface properly.

- FILLING: Fill defects with a good wall crack filler.

- 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:

- 120 x 150mm seamless aluminium gutters with end closures 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. Down pipes to be provided to bottom of down pipes.
- Or otherwise stated on drawings, to match existing.

CEILINGS:

- 8mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber bracing at max 600mm centres with timber cover strips at joints. Cross bracing to be used at 150mm centres at joints, ends of bays, cornice and light fittings. All rail roads to be stepped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with good adhesive. Ceiling and cornice to be prepared adequately and painted 2 coats Super Acrylic Polym 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 masonry walls to match existing, brick or block walls to be constructed as per specifications, and to be indicated by responsible individual as required.
- All landing and / or retaining walls to Structural Engineers detail.
- P.C. finish to be installed over all new renderings where walls to be plastered and painted, to be 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 sheeting 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 unbroken 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 x 90mm steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not using, using basing appropriate base plate and to be fixed to truss or beam above using appropriate hardware.

- WINDOWS: New windows to be hot dipped galvanneal steel windows or to match existing as indicated on drawings, to be confirmed on site. All windows to be installed with frame finished through safety glass. Putty to be painted to match window frame, colour to be confirmed on site.

- GLAZING PANELS: New glazing panels to be 6mm Toughened safety glass. New putty to be installed as per manufacturers specifications, hardware to be applied once putty is smooth and applied completely. 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 mineral hardwood, internal doors to be hollow core.

- SKIRTING: 18mm x 75mm Meranti skirting, or similar approved with 10mm internal quadrant sanded smooth and varnished in mahogany. Then fixed to wall, item as above or similar approved as required on drawings.

- FLOOR COVERING: Refer to drawings for layout of new floor covering. Supply and fix 2.5mm thick x 300mm x 300mm semi flexible vinyl tiles, manufactured in accordance with SANS 581, laid in acrylic adhesive, spread with a Victor ADHF trowel at the rate of between 0.5mm² and 0.5mm² per m², depending on the sub floor porosity, laid on screed to full, to be confirmed on site.

- *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 full and in panels, not exceeding 1.1m in length with control joints as specified by engineer on fill compacted to MCO AASHTO 99% or as specified & approved by engineer. Control joints sealed with 12mm polyisobutylene sealant with backing strip and impregnated shotcrete. 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 all gaps area to be treated with soil positioning as per manufacturer's specification. Gaps to be sealed with polyisobutylene sealant with backing strip and impregnated shotcrete 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 25mm ball valve with 500kg globe ball down with flanged gaskets where fixed to eye hook cast into concrete slab. All to Engineers detail. Tank 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 to be installed as per BOO. Screed to full around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

- BRICK WORK: Corneford (Lansing Gaulting) 20-30 MPa Montana Transcrete F5B dry laid brick, bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints and perpendics, 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: Galvanneal gate to be installed as directed on site, drawings to be provided.

- Burglar bars - 30mm x 6mm galv 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 galvanneal paint coating as per manufacturers specifications.

- CHALKBOARD: 1400mm (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, surface (Centre board) complete with 2 x 5mm long Aluminium framed magnetic chalk board (without any lines or graphics etc) with heavy duty hinges and one complete aluminium tray for full length of the centre board. Centre board sizes to be 1400mm x 1220 mm with Swing leaf chalk board sizes to be 1220x1220 mm. Aluminium pen tray length 2250mm fitted to Centre board.

- Complete full set of magnetic starter pad, consisting of the following for each board supplied:

- 1 x white board markers Red, Green, Black, Blue,
- 1 x Cleaning Cloth
- 1 x Magnetic pen
- 1 x Cleaning Fluid 250 ml
- 1 x 4 magnetic dials a day

- 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 19mm 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 down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, suggested, 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.

KZN Department of Public Works Stamp and Signature

Signature: _____ Date: _____

Consultant: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

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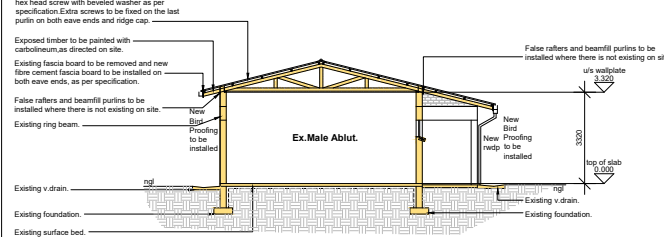
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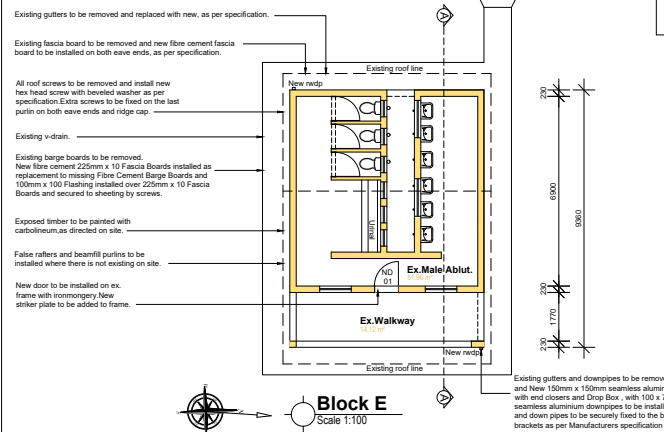
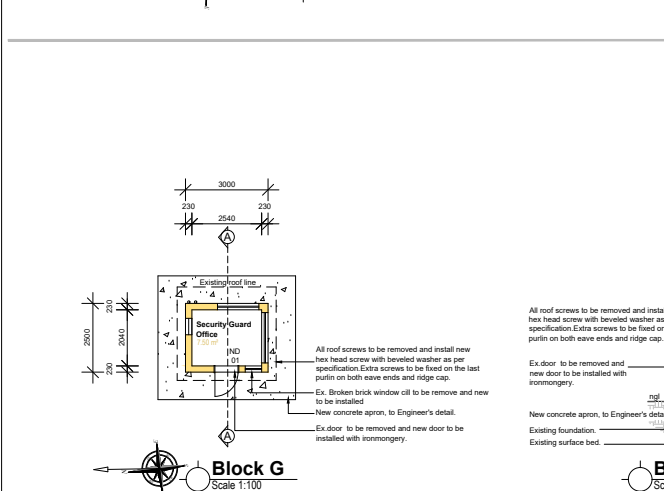
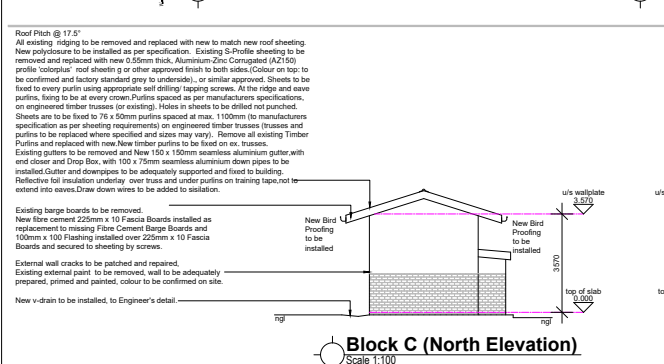
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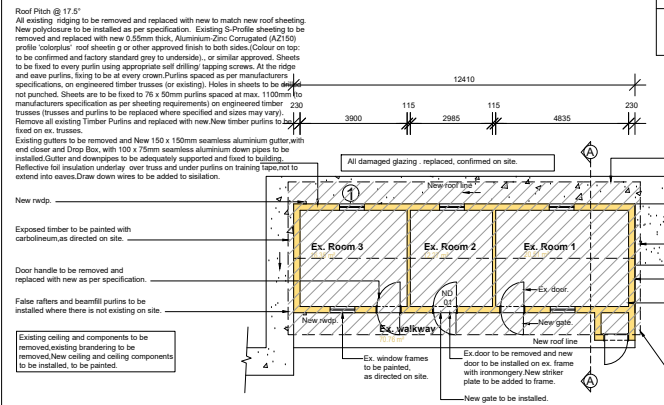
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Block E (Section A-A)
Scale 1:100Block E (South Elevation)
Scale 1:100Block E (North Elevation)
Scale 1:100

LEGEND	DESCRIPTION
	Number inside of circle indicates the number of glazing panels replaced.

Block E (East Elevation)
Scale 1:100Block E (West Elevation)
Scale 1:100Block G (Section A-A)
Scale 1:100Block G (South Elevation)
Scale 1:100Block G (North Elevation)
Scale 1:100Block C (North Elevation)
Scale 1:100Block C (East Elevation)
Scale 1:100

LEGEND	DESCRIPTION
	Number inside of circle indicates the number of glazing panels replaced.

Block C (Section A-A)
Scale 1:100Block C (South Elevation)
Scale 1:100Block C (South Elevation)
Scale 1:100

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 reinforced with house cross bracing and all wall plate levels.
- Workmanship to be of the highest standard throughout.
- The contractor is to locate and identify any all 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, 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.
- Screen to be applied as directed, to Engineers detail.
- Polystyrene 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, rafters, purlins, roof sheeting, fascia, barge board bracing, ceilings, trap doors and cornice), and to match existing where applicable.
- Removal of asbestos to be in strict accordance with the Department of Labour and OHS regulations and procedures as applicable.
- 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.

- 0.5mm thick, Aluminium-Zinc BIR (A2150) profile 'volapark' roof sheeting or other approved finish to both sides. (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 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 75 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).
- 0.5mm thick, Aluminium-Zinc Copagated (A2150) profile 'volapark' roof sheeting or other approved finish to both sides, or similar approved. Thickness of sheeting to be confirmed on site matching existing. (Colour on top to be confirmed and factory standard grey to underside). Sheets shall be fixed to every purlin using galvanized steel "NL700" clips. "NL700" 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 75 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 notes:

Roof to be installed in strict accordance with manufacturers specification. All sheeting to be handled with care, no scratched 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 under/over/intermittent, durable, double sealed reflective foil laminate with advanced fire retardant properties FR405 or Similar approved (over trusses and under purlins on tranning tape on both ends).

Roof trusses to be fixed down to walls with 30mm x 1.5mm thick and 1.5m long galvanised hook iron straps built into brackets 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 plate.

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

Polystyrene (polystyrene) or similar approved to be installed at the ridge and eaves. Where new roof sheeting is being installed, polystyrene is 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 polystyrene is to be added at the ridge only.

Broadfibre cornice or similar approved is to be installed for all BIR and Kiplak roof sheeting at the ridge, profile, colour and material is to match the roof sheeting.

Flexible wax and resin impregnated polyurethane foam to be installed at the ridge when installing ridge cap (Corrugated roof sheeting) and/or broadfibre cornice and ridge cap (BIR and Kiplak roof sheeting). Roof plate to match existing and be confirmed on site.

-All exposed timber to be painted with carbinolium, 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 false rafters to be installed, at every alternate truss for the full length on both sides of the eave (fascia board support) as well as both gable ends (barge board support).

Beam fill purlins to be installed at ridges and gable ends, as directed on site.

-Roof sheeting as specified above or similar approved.

-Roof Screens: Timber application with corrugated sheeting: 12x65 timberflex head washer flange EPDM seal.

Timber application with BIR sheeting: 12x65 timberflex head washer flange EPDM seal.

New roofs to use these screws with the washer (25mm) 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 fitting holes, to be directed on site.

-A200 re-enforced aluminium foil tape to be added on the underside and on top of isolation where sheets overlaps on both sides

AIR-BRICKS: 220 x 152mm Terra cotta vent proled 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 with 225mm x 10mm Plastic H-profile Fascia Joins, Fix 7x4mm timber trimmer battens to underside of purlin ends for barge board support. Nail for and fix fascia board to trimmer battens with hot-dipped galvanised screws and washers. 200 x 100mm aluminium flashing (see page 10). Item as above or similar approved. Where specified and to be confirmed on site, item as above or similar approved.

FASCIA BOARD: Medium density plastic fibre cement 225 x 10mm un-grooved fascia board, or similar approved with H-profile plastic fascia joiners. Drill for and fix hot dip galvanised down 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 unbroken barrier coat to seal surface properly.

FILLING: Fill defects with a good wall crack filler.

UNDERCOAT: Top 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: 120 x 150mm seamless aluminium gutters with end closer 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. Or otherwise stated on drawings, to match existing.

CEILING: 12mm thick fibre cement plain boards, fixed to 38 x 50 end timber bracing at max 600mm centres with timber cover strips at joints. Cross bracing to be installed at 150mm centres at joints of struts, cornice and light fittings. All rail boards to be straight & standard level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with 100 x 100mm corner braces and 100 x 100mm prepared adequately and painted 2 coats Super Acrylic Polym White paint. Items specified on drawings and to be confirmed on site.

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 to comply with "Part K" of the S.A.N.S 10-400. New walls or mull walls to match existing, brick or block walls to be constructed as per construction particulars, to be indicated by responsible individual as required. All landscaping and / or retaining walls to Structural Engineers details. P.C. finish to be installed as indicated in drawings, and to be confirmed on site.

All fire walls to undergo a roof sheeting. Walls to be constructed as per existing and where specified.

Waiting 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. Process and paint with a water-based stain prime 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 unbroken barrier coat to seal alkaline surfaces properly.

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

APPLICATION: Water based primer 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 screened, using basing appropriate base plate and to be fixed to truss or beam above using appropriate channel.

WINDOWS: New windows to be hot dip galvanized steel windows to match existing as indicated on drawings, to be confirmed on site. All windows to be installed with frame finished through safety glass. Pully to be painted to match window frame, colour to be confirmed on site.

GLAZING PANELS: Glazing panels to be firm Toughened safety glass. New pulley to be installed as per manufacturers specifications, hardware to be applied once pulley is smooth and approved. Pully to be painted to match existing window frame, colour to be confirmed on site.

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

SKIRTING: 18mm x 75mm Mineral skirting, or similar approved with 10mm internal quadrant sanded smooth and pre-ventilated in masonry. 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 a 2.5mm thick x 300mm x 300mm semi flexible vinyl tiles, manufactured in South Africa, to be fixed to S.A.N.S 10-400 adhesive, spread with a Victor ADHF towel at the rate of between 0.5m² and 0.5m² per tile, depending on the sub-floor porosity, laid on screed to fall, made with manufacturer's admixture.

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

*Tile colour: to be confirmed, item as above or as per existing.

SCREED: 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 & e-drains laid to full and in panels, not exceeding 1.1m in length with control joints as specified by engineer on fill compacted to MCO AASHTO D950 or as specified & approved by engineer. Control joints sealed with 12mm polyisobutylene sealant with backing strip and impregnated shotcrete. All to Engineers detail.

EX: in-situ channels (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 all gullies and areas to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polyisobutylene sealant with backing strip and impregnated shotcrete 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 engineer's detail.

WATER TANK AND PLINTH: Water tank plinth constructed to Engineers detail, with 2500mm polyethylene water tank with 25mm ball valve with 500mm elbow joint with fixed galvanized flange work to eye level cast into concrete slab. All to Engineer's detail. Tank 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 venturi proof vent. -Traverse pipe ball valve to be installed as per BOO. Screed to full around tank once installed. The above fixing method also applies to existing water tanks on existing or new footings.

BRICK WORK: Corbelled (Landing/Gallery) 20 x 30 (Monsieur) Transverse FRB day face brick, bedded and jointed in Class II mortar and pointed with flush vertical and flush horizontal joints and perpendic. suitable for exposure zones 1-2.

BRICKWORK: BRICKWORK (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: Galvanized gate to be installed as directed on site. Drawings to be provided.

Burglar bars - 30mmx30mm gms flat bars to be welded to the existing window frame, all window joints to be treated with a protective and rust protection spray or cold galvanised paint coating as per manufacturers specifications.

CHALKBOARD: 1400mm (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) with heavy duty hinges and one (1) complete aluminium pen tray for full length of the centre board. Centre board sizes to be 2400x 1200mm with Swing leaf chalk board sizes to be 1200x 1210mm.

Complete full set of magnetic starter pad, consisting of the following for each board supplied:

1 x 4mm thick markers: Red, Green, Black, Blue, 1 x Cleaning Cloth, 1 x Magnetic Eraser, 1 x Cleaning Cloth, 250 ml of water.

PIPING 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 18mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm o/c with 40mm fixing screws in masonry gable suitable for walls and in plaster.

Fixing holes to be covered with a wood filler and sand down smoothly before painting with an approved colour or site mix. Dado rail height to be as per max. height of 800mm high, suggested, 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.

DOOR SET 1: Union 4-Lever Commercial Series Mortice lock 2247-7885 with CP on brass Cove Lever handles CMB2-050C-B. -Door door dead with counter-bunk bolt into anchor bolt.

STANDARD DOOR FRAME: 1.2mm thick precast double glazed solid steel door frame.

DOOR: 2032 x 813 x 40mm Meranti Hardwood, tapered & banded door with 15 x 40mm stile & top rail, 150 x 20mm middle stile, 20mm traces & min. x 21 G & V jointed tracks.

DOOR FINISH: Door, Sand smooth and dust off. Seal joints with "NOCOT SEAL" (PK 2) then prime with "PLASCON ACCO PRIMER" (PK 2) and after apply one or more coats of "Plascon ENAMEL" to OHS 4 TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.

FURNITURE: Door set 1 x 3.

NOTES: Contractor to check no's required against drawings and schedules. Any discrepancies to be brought to the Architects attention immediately.

DS 1:50 DOOR SCHEDULE

Project Title: PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 111 - MSINGA HIGH

Drawing Description: Construction Drawing for Msing High School - Block C,E and G: Plan,Section and Elevations

Drawn: T. Singh Date: 2018/11/13

Consultant Drawing No: 1370-18 W005

DOWP Drawing No: 063832

DOWP WMS No: 063832

Stamped by Design Review Committee



Signature: _____ Date: _____

Consultant: _____

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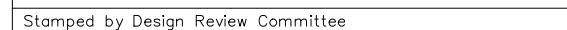
Drawn: T. Singh Date: 2018/11/13

Consultant Drawing No: 1370-18 W005

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DOWP WMS No: 063832

Stamped by Design Review Committee



SCALE 1:20

SCALE 1:10

SCALE 1:25

SCALE 1:20

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SECT

11

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SCALE 1:25

SCALE 1:20

SCALE 1:2

SCALE 1:10

WIRE DETAIL

2.25

SCALE 1:10

SCALE 1:10

SCALE 1:25

SCALE 1:20

SCALE 1:10

SALE 1:10

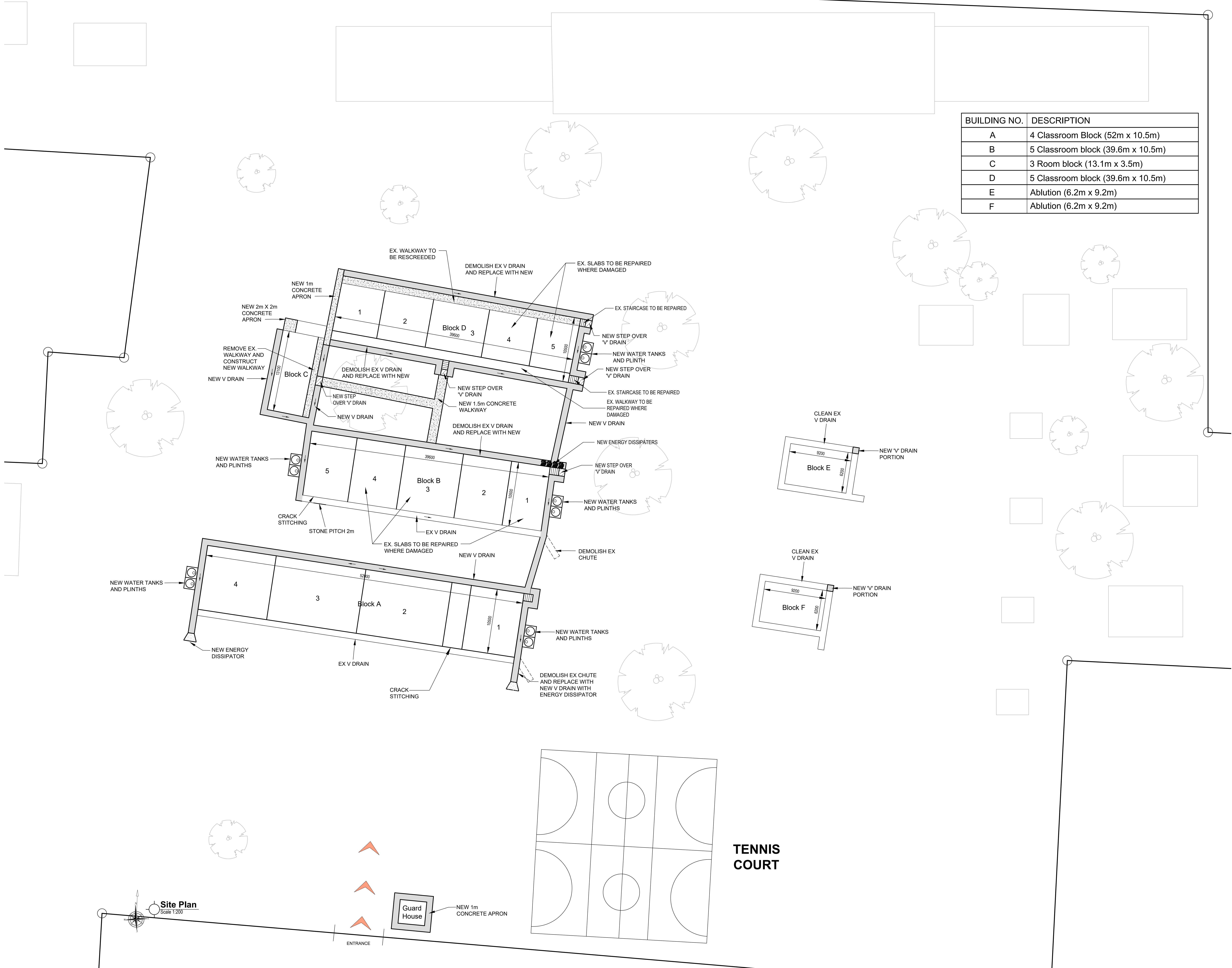
NOTE: FOR VERY LONG CLASSROOM BLOCKS, PLACE RAFTER BRACING AT EVERY 10m

SCALE 1:2

SCALE 1:2

SCALE 1:2

[illegible]



BUILDING NO.	DESCRIPTION
A	4 Classroom Block (52m x 10.5m)
B	5 Classroom block (39.6m x 10.5m)
C	3 Room block (13.1m x 3.5m)
D	5 Classroom block (39.6m x 10.5m)
E	Ablution (6.2m x 9.2m)
F	Ablution (6.2m x 9.2m)

GENERAL

- ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 2001-CCTIVAND THE PROJECT SPECIFICATIONS IN THE CONTRACT DOCUMENTATION
- THE CONTRACTOR SHALL ENSURE THAT WATERPROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL REPLACING OF MATERIAL DUE TO DAMAGE FOR CONTRACTORS COST.

FOUNDATIONS AND EARTHWORKS

- ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH SANS 1200 D INCLUDING THE LATEST REVISIONS.
- ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING OF ANY CONCRETE FOUNDATION, BLINDING, WATERPROOFING OR GEOTEXTILIC MEMBRANE.
- NO FOUNDATION SHALL BE CAST ON NON-ENGINEERED FILL OR BACKFILL MATERIAL PORTIONS THAT ARE OVER-EXCAVATED BEYOND THE DEPTH REQUIRED BY THE GEOTECHNICAL / RESIDENT ENGINEER, TO BE FILLED WITH MASS CONCRETE (20MPa / 15mm) AT THE CONTRACTORS EXPENSE.

BRICKWORK & BLOCKWORK:

- ALL BRICKWORK, BLOCKWORK, ANCHORS, WALL TIES AND STRAPS SHALL BE IN ACCORDANCE WITH SANS 0400 - 1990 AND SANS 0164 - 1980 INCLUDING THE LATEST REVISIONS.
- THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.
- THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SANS 0164 PART I - 1980.
- LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
- IN ADDITION, BRICKFORCE IS REQUIRED IN EVERY LAYER FOR THE FIRST FOUR LAYERS ON TOP OF THE FOUNDATIONS & SLABS AS WELL AS OVER DOOR AND WINDOW OPENINGS (MIN. LAPS = 300mm).
- ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIP GALVANIZED.
- V-JOINTS ARE TO BE MADE THROUGH PLASTERWORK WHERE BRICKWORK / BLOCKWORK AND CONCRETE JOIN.

CONCRETE:

- CONCRETE GRADES:
 - REINFORCED CONCRETE = 30 MPa/19mm
 - MASS CONCRETE = 20 MPa/19mm
 - BLINDING = 15 MPa/19mm
 - SURFACE BEDS = 30 MPa/19mm
- 20 X 20 CHAMFER TO BE PROVIDED ON ALL EXPOSED EDGES
- COVER TO REINFORCEMENT:
 - ROOF & FLOOR SLABS = 25mm
 - FOUNDATION BASES = 50mm
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-CCT.
- CONCRETE TOLERANCE IN GENERAL SHALL BE OF DEGREE OF ACCURACY NO. 11 AS SPECIFIED IN SANS 2001-CCT.
- ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.
- THE CONTRACTOR MUST CO-ORDINATE ALL SERVICES DRAWINGS FOR DETAILS AND POSITIONS OF OPENINGS AND SLEEVES REQUIRED FOR STORMWATER, SEWERAGE, DRAINAGE, ELECTRICAL, MECHANICAL, AND OTHER SERVICES.
- THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE ENGINEER BEFORE ANY OPENINGS 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.
- CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 2001-CCT.
- 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.
- STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 2001-CCT.
- CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE INCLUDING SCAFFOLD MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING OF ANY CONCRETE.
- COLD CONSTRUCTION JOINTS: MAIN AGGREGATE MUST BE EXPOSED, CLEANED AND THOROUGHLY WETTED BEFORE CASTING OF NEW CONCRETE. NO CEMENT GROUT SHALL BE USED. LOCATION OF JOINTS TO BE APPROVED BY THE ENGINEER IF DEVIATED FROM THE DRAWINGS.

SURFACE BEDS:

- PROVIDE 10mm ISOLATION JOINTS (I.J.) AROUND ALL CONCRETE COLUMNS AND AGAINST BRICK WALLS. AFTER CONCRETE HAS SET, JOINTS TO BE RAKED OUT 10mm DEEP AND SEALED WITH APPROVED JOINT SEALANT - REFER TO STANDARD DETAILS.
- SAW-CUT JOINTS TO BE DONE AS SOON AS CONCRETE IS FIRM ENOUGH TO NOT DAMAGE THE EDGES. USUALLY BETWEEN 6 TO 16 HOURS.
- ALL BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm. COMPACTION EFFORT, AS INDICATED.
- FLOOR SLABS ARE WOOD FLOAT FINISHED AND SCREEDED TOPPING TO HAVE A STEEL TROWEL FINISH.

REINFORCEMENT:

- ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1005-2011.
- 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.
- THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS (3 WORKING DAYS) NOTICE TO THE ENGINEER FOR REBAR INSPECTIONS THAT ARE REQUIRED.
- BEND-OUT BARS AT CONSTRUCTION JOINTS SHALL BE BENT OUT WITH A SUITABLE PIPE SO THAT NO KINK IS FORMED IN THE BARS.
- NO HEAT TREATMENT, FLAME CUTTING OR WELDING OF REBAR WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE ALLOWED.

KZN Department of Education Stamp and Signature

Signature: _____ Date: _____

Consultant: _____



Signature: _____ Date: _____



Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 111 - MSINGA HIGH

Drawing Description:
Illustration Site Plan of Engineering works for Msinga High School

Drawn: J. GAFOOR Date: 2020/07/09

Scales: As Shown

Consultant Drawing No: V16-0539-031a Revision: 0

DOPW CONTRACT No: _____ Revision: _____

DOPW WIMS No: _____

WIMS : 063832

Stamped by Design Review Committee