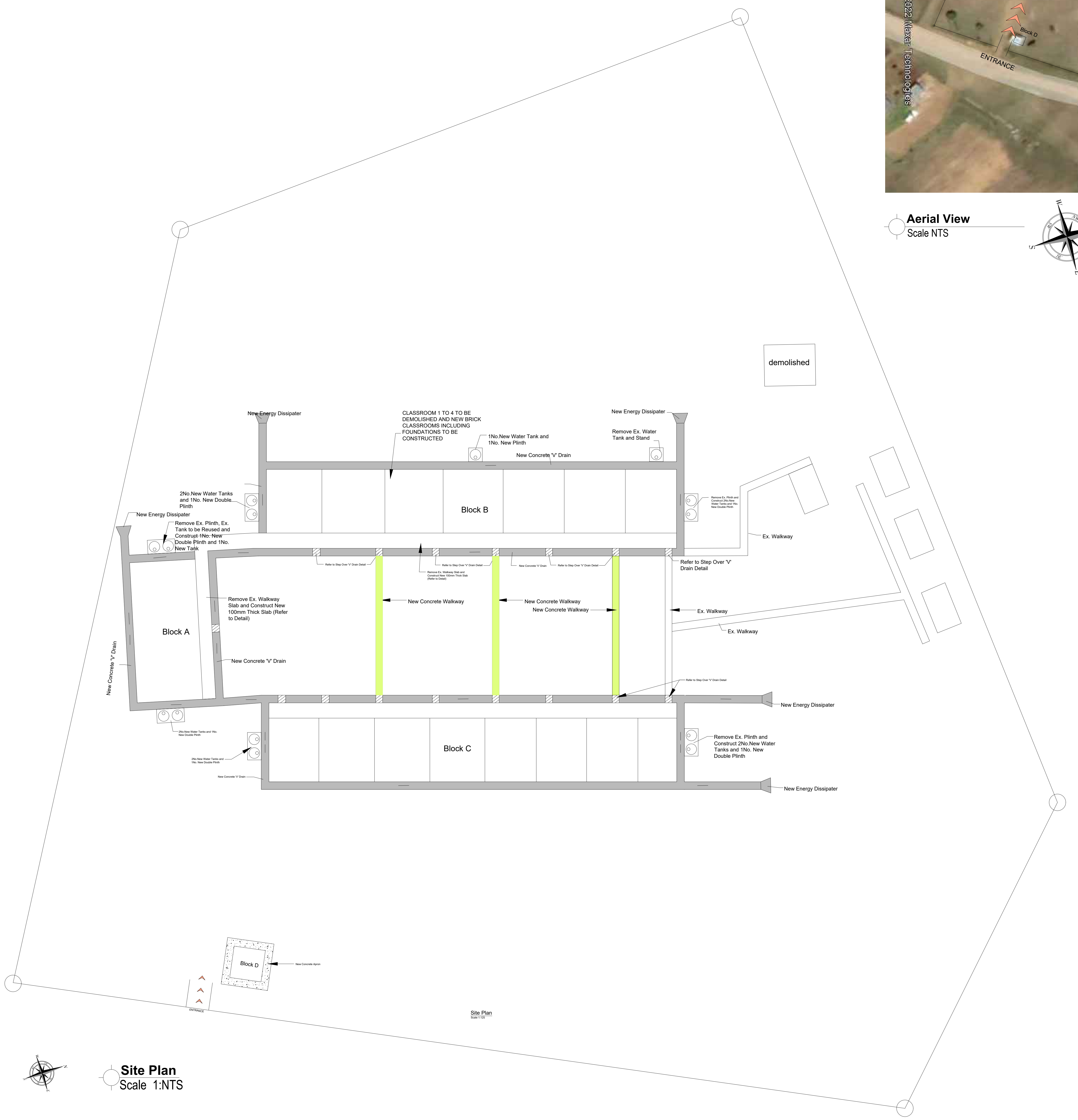
BUILDING NO.	DESCRIPTION
A	Admin block (18m x 10.1m)
B	7 Classroom block (54.5m x 9.2m)
C	7 Classroom block (54.5m x 9.2m)
D	Guard House

CO-ORDINATES :
LATITUDE : 28°14'14.2"S
LONGITUDE : 30°34'16.8"E



Site Plan
Scale 1:NTS

Aerial View
Scale NTS

GENERAL NOTES:

1. All dimensions to be checked before work commences. Architect to be notified immediately of any discrepancies, errors, omissions, etc.
2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless otherwise stated.
3. All levels to be checked on site before any work commences.
4. All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
5. Damproof course to comply with S.A.N.S. 10-400 requirements.
6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.
7. Workmanship is to be of the highest standard through-out.
8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.
9. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.
10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
11. All materials to be used in strict accordance to manufacturers specification
12. Soil poisoning to be used under all new concrete work and new water tank stands.
13. Screed to be applied as directed, to Engineers detail.
14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.
15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.
16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
17. 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 IBR (AZ150) profile 'colorplus' 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 sheeting 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 'colorplus' 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 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
OR
0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' 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 sheeting 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 scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheeting 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 (diagonally), 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.
-Broadflute closure or similar approved is to be installed for all IBR and Kliplok 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 broadflute closure and ridge cap (IBR and Kliplok 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 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 fill purlins to be installed at ridges 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 flange EPDM seal.
Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws 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.
-A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm 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. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing 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 joiners. 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 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:

150 x 150mm seamless aluminium gutters with end closers 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.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 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, be to indicated by responsible individual as required.
All founding and / or retaining walls to Structural Engineers details.
P.C. lintols to be installed over all new openings where walls to be plastered and painted, 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 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:

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

GMS POST:

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, 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 6mm toughened 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, hardener 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:

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded smooth and pre-varnished in mahogany, 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 581, laid in acrylic adhesive, spread with a 'Vicker A24F' 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 admixture.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer.
-Tile 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 fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide 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 all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed 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 BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine 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 NFX 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 - 30mmx3mm gms 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:

1140mm (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 Swing leaf Aluminium framed magnetic chalk boards(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 = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.
1 Complete full set of magnetic starter pack consisting of the following for each board supplied:
4 x white board markers Red, Green , Black , Blue,
1x cleaning Cloth
1x Magnetic Eraser
1x Cleaning Fluid 250 ml
4 x moulded magnets d day

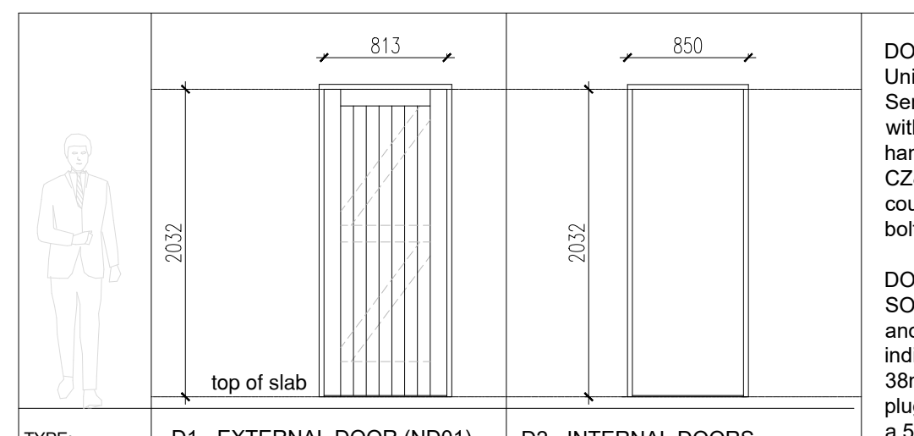
PINING BOARD:

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 c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. 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, 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.



TYPE:	D1 - EXTERNAL DOOR (ND01)	D2 - INTERNAL DOORS
FRAME:	1.2mm thick pressed double rebated mild steel door frame	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanised. Not painted	Hot dipped galvanised. 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, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens	2032 x 813 x 40mm SA Pine (osa) hardwood timber battened door, undercut 100mm from finished floor level.
DOOR FINISH:	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1	Door set 2
NOTES:	• Contractor to check no's required against drawings and schedules. • Any discrepancies to be brought to the Architects attention immediately.	

DOOR SET 1:
Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor bolt.

DOOR SET 2:
SOLID ART 294 WC anodised aluminium mortice indicator bolt.
38mm diameter door stop plugged and screwed to wall with a 50mm long brass screw.

STANDARD DOOR FRAME:
1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with straps for building in.
2 x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when bumped

NB: ALL IRONMONGERY TO BE SABS APPROVED.

DS
SCALE: 1:50
DETAIL DESCRIPTION. DOOR SCHEDULE

KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:

REALISING CONTINENTAL POTENTIAL

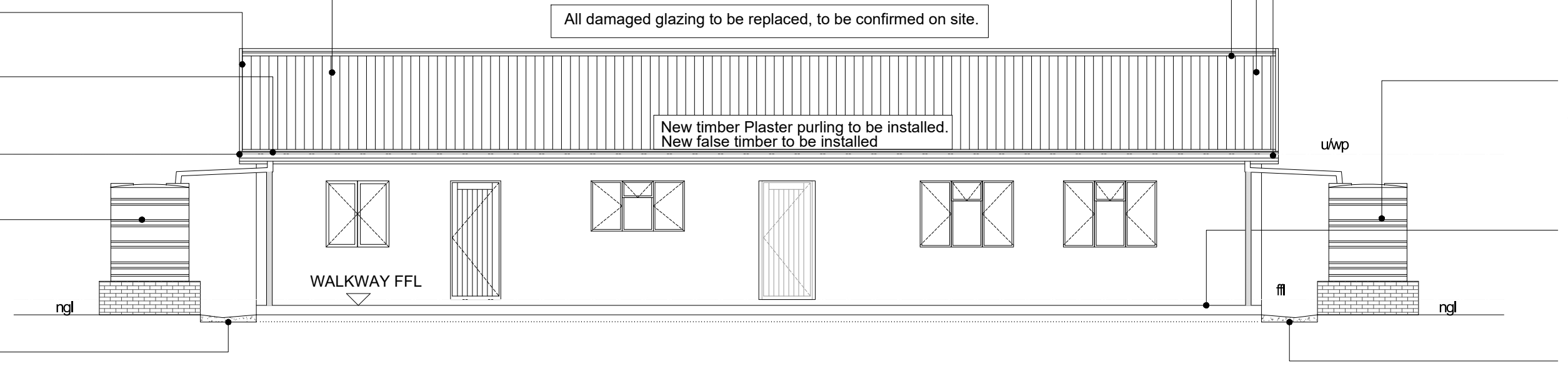
Signature: Date:

public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:
Construction Plans for Dalala Primary School - Site Plan

Drawn: T. Mkhize / M. Khan Date: 2022/11/05
Checked By: T. Mkhize Date: 2022/11/05
Scales: 1:100
Consultant Drawing No: 1392-18 WD01 Revision: .
DOPW CONTRACT No: ZNTL04781W Revision: .
DOPW WIMS No: WIMS : 063803
Stamped by Design Review Committee



All damaged glazing to be replaced, to be confirmed on site.

New timber Plaster purling to be installed.
New false timber to be installed

Remove existing roof screws and replace with new roof screws with rubber washer.

New 76x50mm timber Plaster purling to be installed.

New 114 x 38mm false timber rafters to be installed, at every alternative truss.

Existing gutter to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Ex. Water Plinth to be demolished and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

New v drain to be installed, to Engineer's detail.

Remove all existing ridge capping and install new with polyclosure.
Remove existing roof screws and replace with new roof screws with rubber washer.

New 76x50mm timber Plaster purling to be installed.

Existing gutter to be removed and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

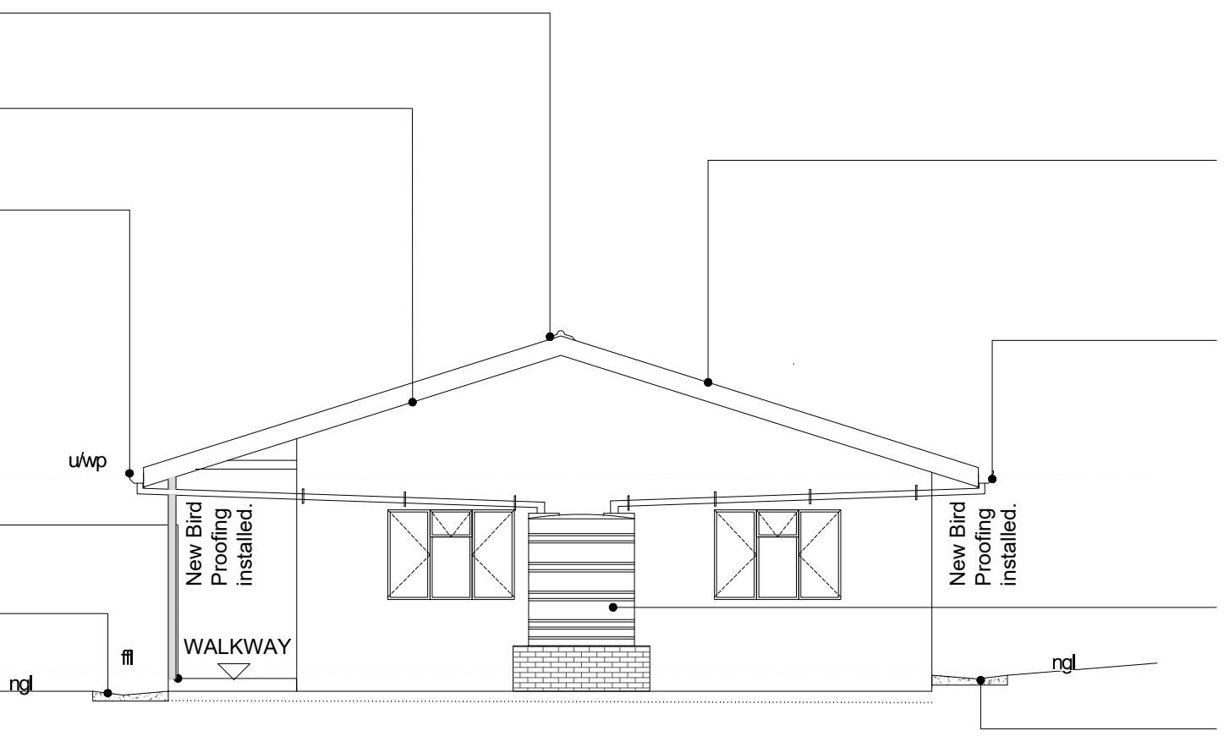
Ex. Water Plinth to be demolished and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

Existing walkway to be removed, floors to be adequately prepared and new surfacebed to be laid to Engineer's detail.

New v drain to be installed, to Engineer's detail.

North Elevation Block A

Scale 1:100



Remove all existing ridge capping and install new with polyclosure.
Remove existing roof screws and replace with new roof screws with rubber washer.

New 76x50mm timber Plaster purling to be installed.

Existing gutter to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Existing walkway to be removed, floors to be adequately prepared and new surfacebed to be laid to Engineer's detail.

New v drain to be installed, to Engineer's detail.

Remove existing roof screws and replace with new roof screws with rubber washer.

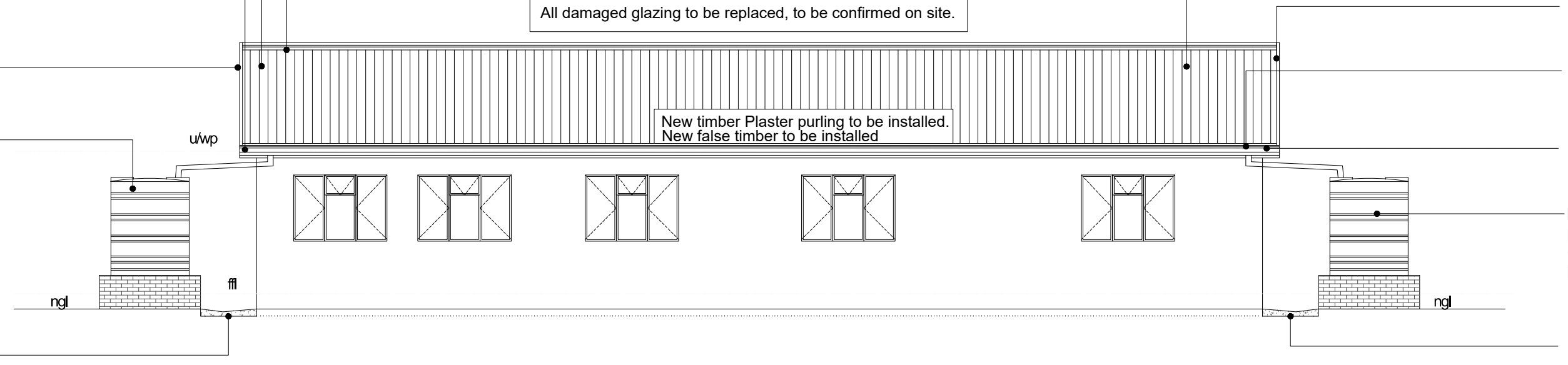
Existing gutter to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Ex. Water Plinth to be demolished and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

New v drain to be installed, to Engineer's detail.

West Elevation Block A

Scale 1:100



All damaged glazing to be replaced, to be confirmed on site.

New timber Plaster purling to be installed.
New false timber to be installed

Polyclosures (polyethylene) or similar approved to be installed at the ridge.

New 76x50mm timber Plaster purling to be installed.

Existing gutter to be removed and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Existing barge boards to be removed and replaced with New Fibre cement 225mm x 10mm fascia boards, 225mm x10mm joined together with Plastic H-Profile Barge Joiners. With 200x100mm aluminum flashing

Ex. Water Plinth to be demolished and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

New v drain to be installed, to Engineer's detail.

Remove existing roof screws and replace with new roof screws with rubber washer.

New 76x50mm timber Plaster purling to be installed.

New 114 x 38mm false timber rafters to be installed, at every alternative truss.

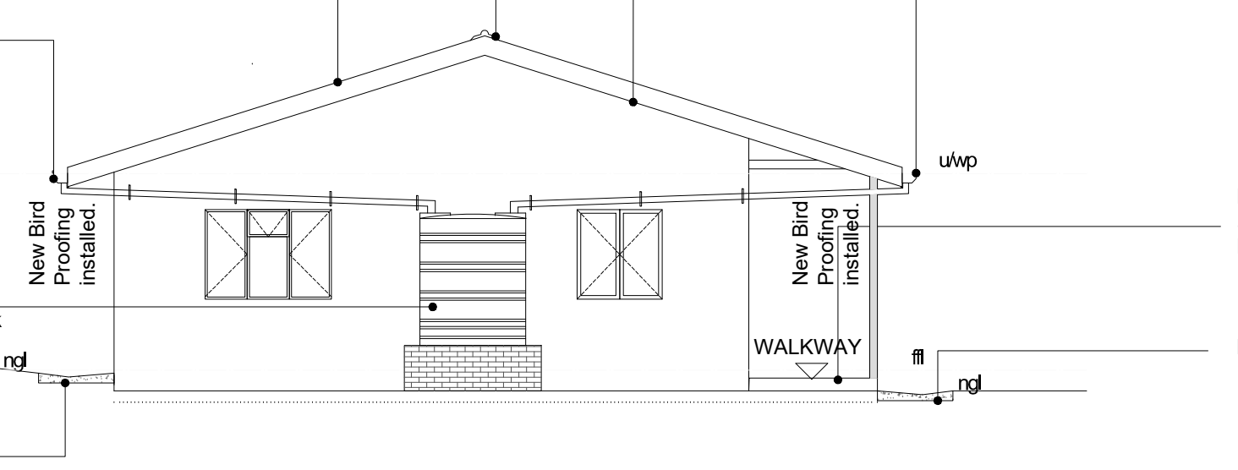
Existing gutter to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

New v drain to be installed, to Engineer's detail.

South Elevation Block A

Scale 1:100



Remove existing roof screws and replace with new roof screws with rubber washer.

Existing gutter to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

New v drain to be installed, to Engineer's detail.

Remove all existing ridge capping and install new with polyclosure.
Remove existing roof screws and replace with new roof screws with rubber washer.

New 76x50mm timber Plaster purling to be installed.

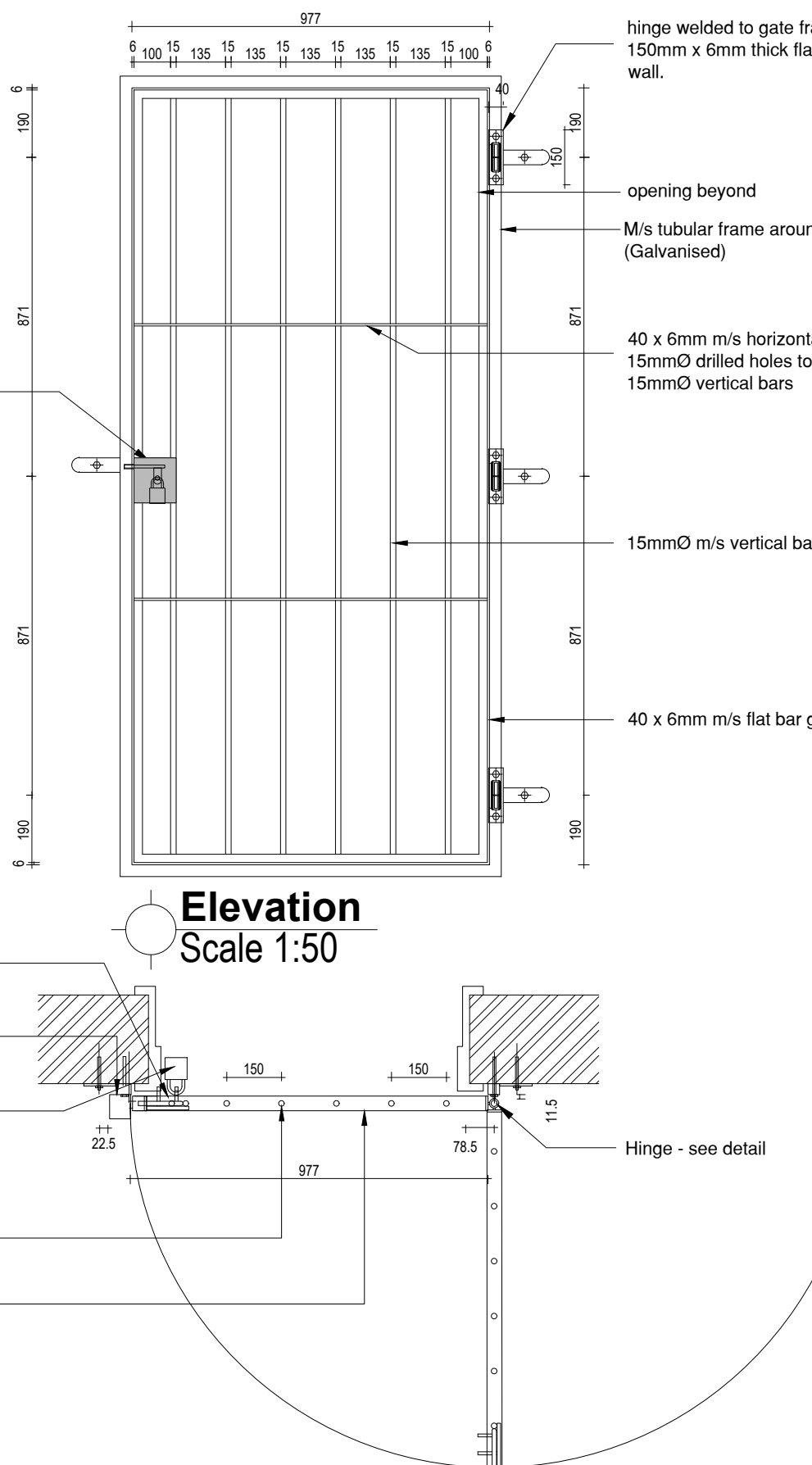
Existing gutter to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Existing walkway to be removed, floors to be adequately prepared and new surfacebed to be laid to Engineer's detail.

New v drain to be installed, to Engineer's detail.

East Elevation Block A

Scale 1:100



hinge welded to gate frame & to 40mm x 150mm x 6mm thick flat bar bolted to wall.

opening beyond

M/s tubular frame around openings (Galvanised)

40 x 6mm m/s horizontal flat bar with 15mmØ drilled holes to accommodate 15mmØ vertical bars

Accommodation for a GMS latch with holes to be welded on the inner part of the gate and frame for security and covered with a 130mm x 150mm x 2.5mm anti tamper gms flat plate welded on the exterior face to manufacturers specification.

15mmØ m/s vertical bars fixed to gate

40 x 6mm m/s flat bar gate frame

Elevation
Scale 1:50

115mm x 140mm x 10mm plate welded to gate

M/s tubular frame around openings (Galvanised)

padlock by others

M/s tubular frame around openings (Galvanised)

15mmØ m/s vertical bars fixed to gate

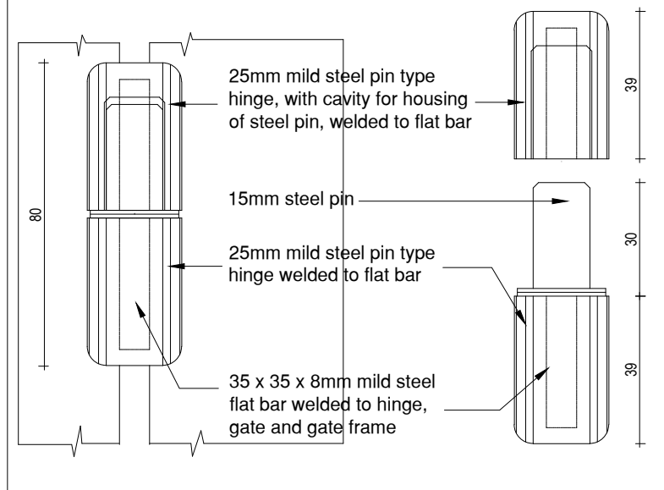
40 x 6mm m/s flat bar gate frame

Hinge - see detail

Plan
Scale 1:50

Note:
All steel to be hot dipped galvanised.

Note: Top hinge to be inverted to prevent gate from being lifted off frame.



25mm mild steel pin type hinge, with cavity for housing of steel pin, welded to flat bar

15mm steel pin

25mm mild steel pin type hinge welded to flat bar

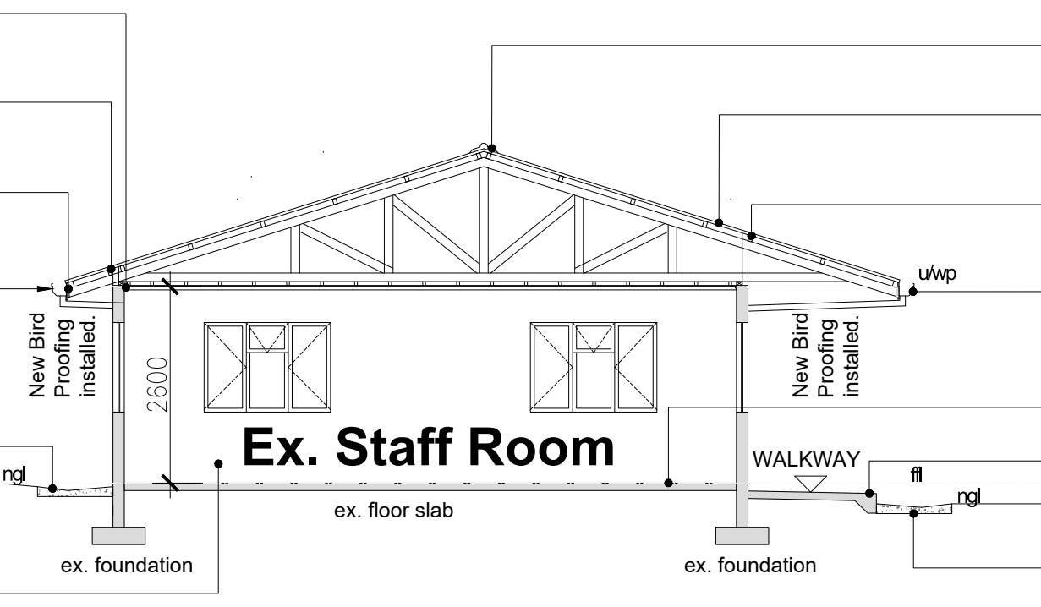
35 x 35 x 8mm mild steel flat bar welded to hinge, gate and gate frame

ELEVATION (CLOSED)
SCALE: 1:10

ELEVATION (OPEN)
SCALE: 1:10

	scale:	detail description:
HD 1	1:2	HINGE DETAIL

	scale:	detail description:
G1	1:20	GATE DETAIL



Existing damaged cornice to be removed and install new to match existing.

New 76x50mm timber Plaster purling to be installed.

New 114 x 38mm false timber rafters to be installed, at every alternative truss.

Existing gutters and rwdp to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New v drain to be installed, to Engineer's detail.

Existing plaster to be removed, wall to be prepared and new plaster and paint to be applied accordingly.

Remove all existing ridge capping and install new with polyclosure.
Remove existing roof screws and replace with new roof screws with rubber washer.

Remove existing roof screws and replace with new roof screws with rubber washer.

New 76x50mm timber Plaster purling to be installed.

Existing. gutters to be removed and replaced with New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

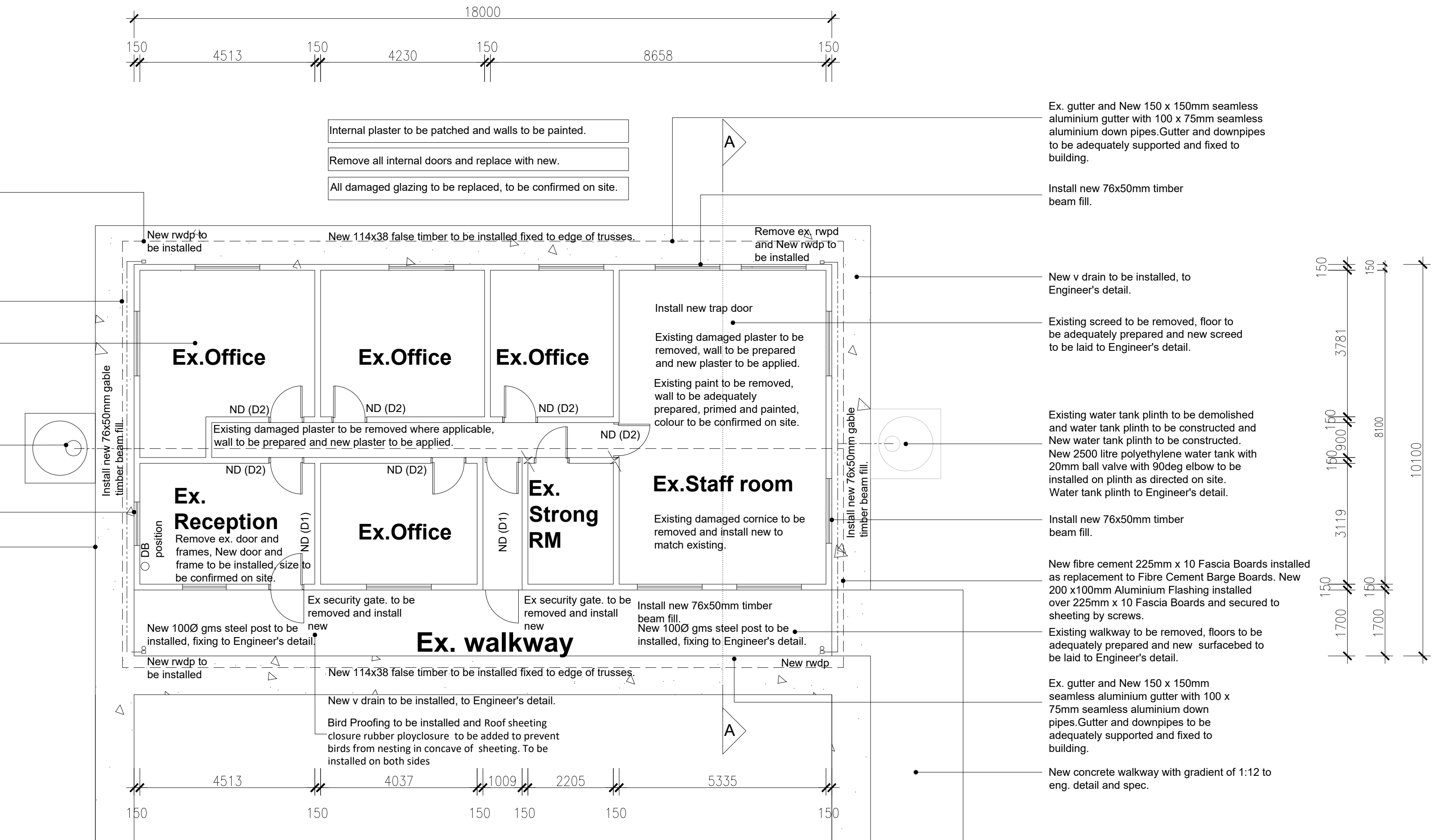
Existing screed to be removed, floor to be adequately prepared and new screed to be laid to Engineer's detail.

Existing walkway to be removed, floors to be adequately prepared and new surfacebed to be laid to Engineer's detail.

New v drain to be installed, to Engineer's detail.

Section A-A

Scale 1:100



Internal plaster to be patched and walls to be painted.

Remove all internal doors and replace with new.

All damaged glazing to be replaced, to be confirmed on site.

New rwdp to be installed

New 114x38 false timber to be installed fixed to edge of trusses.

Remove ex. rwpd and New rwdp to be installed

Install new trap door

Existing damaged plaster to be removed, wall to be prepared and new plaster to be applied.

Existing paint to be removed, wall to be adequately prepared, primed and painted, colour to be confirmed on site.

Existing damaged plaster to be removed where applicable, wall to be prepared and new plaster to be applied.

Existing damaged cornice to be removed and install new to match existing.

Remove ex. door and frames, New door and frame to be installed, size to be confirmed on site.

Ex security gate. to be removed and install new

Ex security gate. to be removed and install new

Install new 76x50mm timber beam fill.

New 100Ø gms steel post to be installed, fixing to Engineer's detail.

New 100Ø gms steel post to be installed, fixing to Engineer's detail.

New rwdp to be installed

New rwdp

New 114x38 false timber to be installed fixed to edge of trusses.

New v drain to be installed, to Engineer's detail.

Bird Proofing to be installed and Roof sheeting closure rubber ployclosure to be added to prevent birds from nesting in concave of sheeting. To be installed on both sides

Existing gutters to be replaced with new 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New fibre cement 225mm x 10 Fascia Boards installed as replacement to Fibre Cement Barge Boards. New 200 x100mm Aluminium Flashing installed over 225mm x 10 Fascia Boards and secured to sheeting by screws.

Remove existing roof screws and replace with new roof screws with rubber washer.

New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

Install new 76x50mm timber beam fill.

New v drain to be installed, to Engineer's detail.

Ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Install new 76x50mm timber beam fill.

New v drain to be installed, to Engineer's detail.

Existing screed to be removed, floor to be adequately prepared and new screed to be laid to Engineer's detail.

Existing water tank plinth to be demolished and water tank plinth to be constructed and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

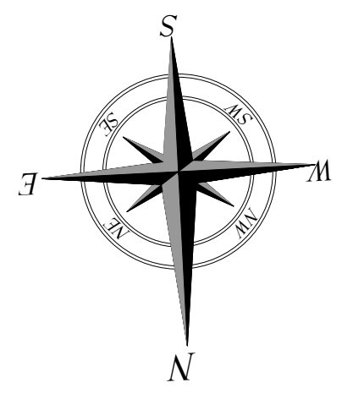
Install new 76x50mm timber beam fill.

New fibre cement 225mm x 10 Fascia Boards installed as replacement to Fibre Cement Barge Boards. New 200 x100mm Aluminium Flashing installed over 225mm x 10 Fascia Boards and secured to sheeting by screws.

Existing walkway to be removed, floors to be adequately prepared and new surfacebed to be laid to Engineer's detail.

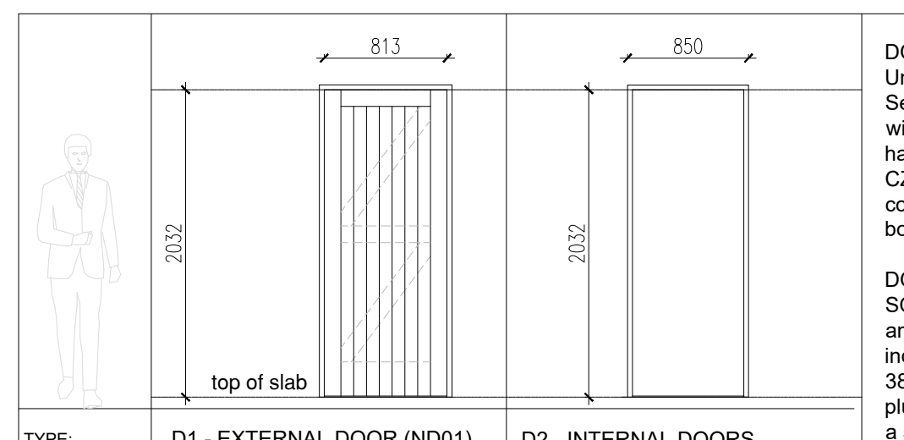
Ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New concrete walkway with gradient of 1:12 to eng. detail and spec.



Floor Plan Block A

Scale 1:100



TYPE:	D1 - EXTERNAL DOOR (ND01)	D2 - INTERNAL DOORS
FRAME:	1.2mm thick pressed double rebated mild steel door frame	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanised. Not painted	Hot dipped galvanised. 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, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens	2032 x 813 x 40mm SA Pine (osa) hardwood timber battened door, undercut 100mm from finished floor level.
DOOR FINISH:	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1 (2 Doors)	Door set 2 (8 Doors)
NOTES:	• Contractor to check no's required against drawings and schedules. • Any discrepancies to be brought to the Architects attention immediately.	

DOOR SET 1:
Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor bolt.

DOOR SET 2:
SOLID ART 294 WC anodised aluminium mortice indicator bolt.
38mm diameter door stop plugged and screwed to wall with a 50mm long brass screw.

STANDARD DOOR FRAME:
1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with straps for building in.
2 x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when bumped

NB: ALL IRONMONGERY TO BE SABS APPROVED.

	SCALE:	DETAIL DESCRIPTION.
DS	1:50	DOOR SCHEDULE

GENERAL NOTES:

1. All dimensions to be checked before work commences. Architect to be notified immediately of any discrepancies, errors, omissions, etc.
2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless otherwise stated.
3. All levels to be checked on site before any work commences.
4. All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
5. Damproof course to comply with S.A.N.S. 10-400 requirements.
6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.
7. Workmanship is to be of the highest standard through-out.
8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.
9. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.
10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
11. All materials to be used in strict accordance to manufacturers specification
12. Soil poisoning to be used under all new concrete work and new water tank stands.
13. Screed to be applied as directed, to Engineers detail.
14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.
15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.
16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
17. 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 IBR (AZ150) profile 'colorplus' 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 sheeting 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 'colorplus' 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 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
OR
0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' 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 sheeting 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 scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheeting 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 (diagonally), 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.
-Broadflute closure or similar approved is to be installed for all IBR and Kliplok 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 broadflute closure and ridge cap (IBR and Kliplok 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 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 fill purlins to be installed at ridges 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 flange EPDM seal.
Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws 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.
-A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm 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. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing 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 joiners. 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 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:

150 x 150mm seamless aluminium gutters with end closers 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.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 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, be to indicated by responsible individual as required.
All founding and / or retaining walls to Structural Engineers details.
P.C. lintols to be installed over all new openings where walls to be plastered and painted, 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 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:

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

GMS POST:

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, 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 6mm toughened 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, hardener 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:

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded smooth and pre-varnished in mahogany, 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 581, laid in acrylic adhesive, spread with a 'Vicker A24F' 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 admixture.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer.
-Tile 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 fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide 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 all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed 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 BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine 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 NFX 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 - 30mmx3mm gms 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:

1140mm (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 Swing leaf Aluminium framed magnetic chalk boards(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 = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.
1 Complete full set of magnetic starter pack consisting of the following for each board supplied:
4 x white board markers Red, Green , Black , Blue,
1x cleaning Cloth
1x Magnetic Eraser
1x Cleaning Fluid 250 ml
4 x moulded magnets d 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 c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. 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, 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.

KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:

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 133 - DALALA PRIMARY SCHOOL

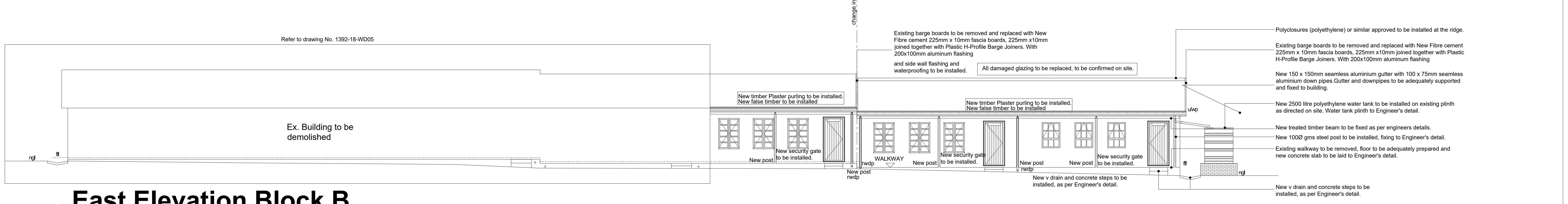
Drawing Description:

Construction Plans for Dalala Primary School - Part Block A

Drawn: T. Mkhize / M. Khan Date: 2022/11/05
Checked By: T. Mkhize Date: 2022/11/05
Scales: 1:100

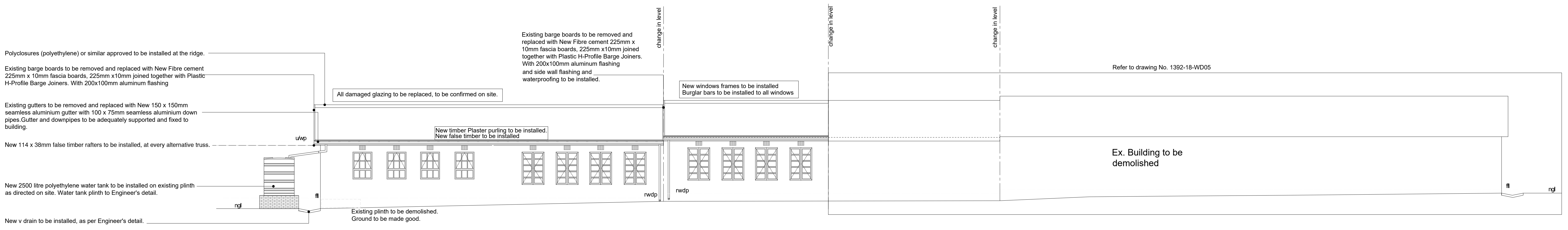
Consultant Drawing No: 1392-18 WD02	Revision: .
DOPW CONTRACT No: ZNTL04781W	Revision: .
DOPW WIMS No: WIMS : 063803	

Stamped by Design Review Committee



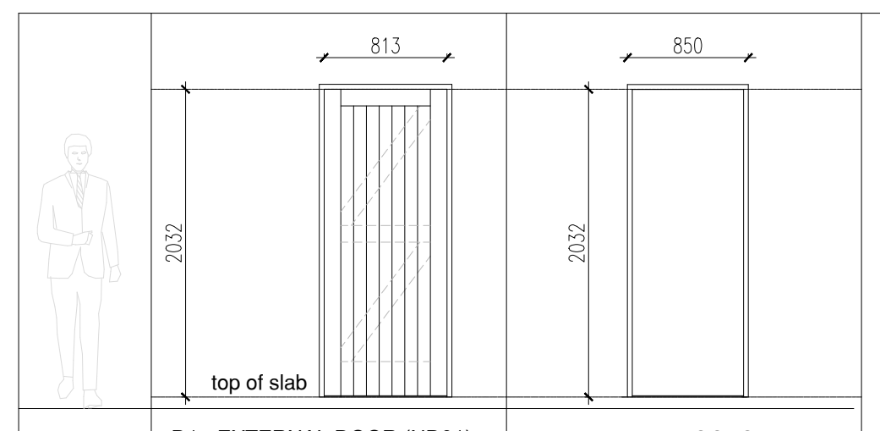
East Elevation Block B

Scale 1:100



West Elevation Block B

Scale 1:100



TYPE:	D1 - EXTERNAL DOOR (ND01)	D2 - INTERNAL DOORS
FRAME:	1.2mm thick pressed double rebated mild steel door frame	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanised. Not painted	Hot dipped galvanised. 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, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens	2032 x 813 x 40mm SA Pine (osa) hardwood timber battened door, undercut 100mm from finished floor level.
DOOR FINISH:	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1 (3 Doors)	Door set 2 (3 Doors)
NOTES:	• Contractor to check no's required against drawings and schedules. • Any discrepancies to be brought to the Architects attention immediately.	

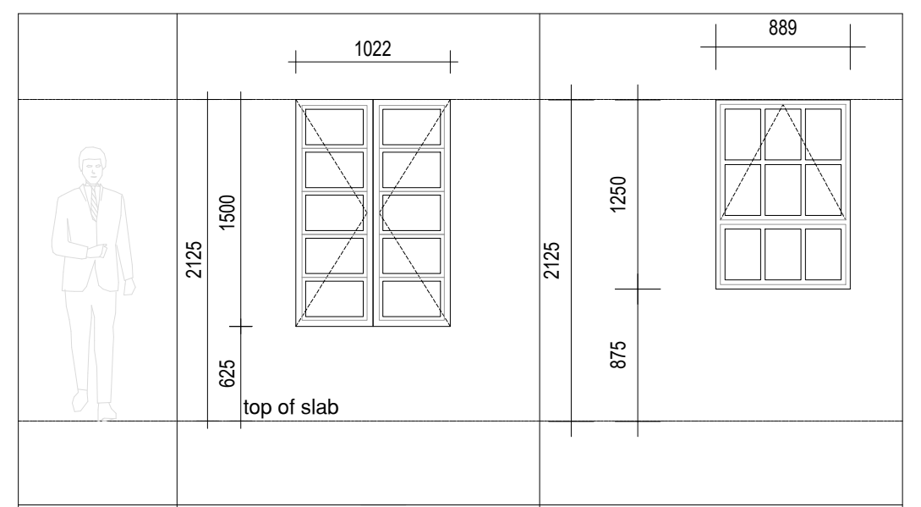
DOOR SET 1:
Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor bolt.

DOOR SET 2:
SOLID ART 294 WC anodised aluminium mortice indicator bolt.
38mm diameter door stop plugged and screwed to wall with a 50mm long brass screw.

STANDARD DOOR FRAME:
1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with straps for building in.
2 x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when bumped

NB: ALL IRONMONGERY TO BE SABS APPROVED.

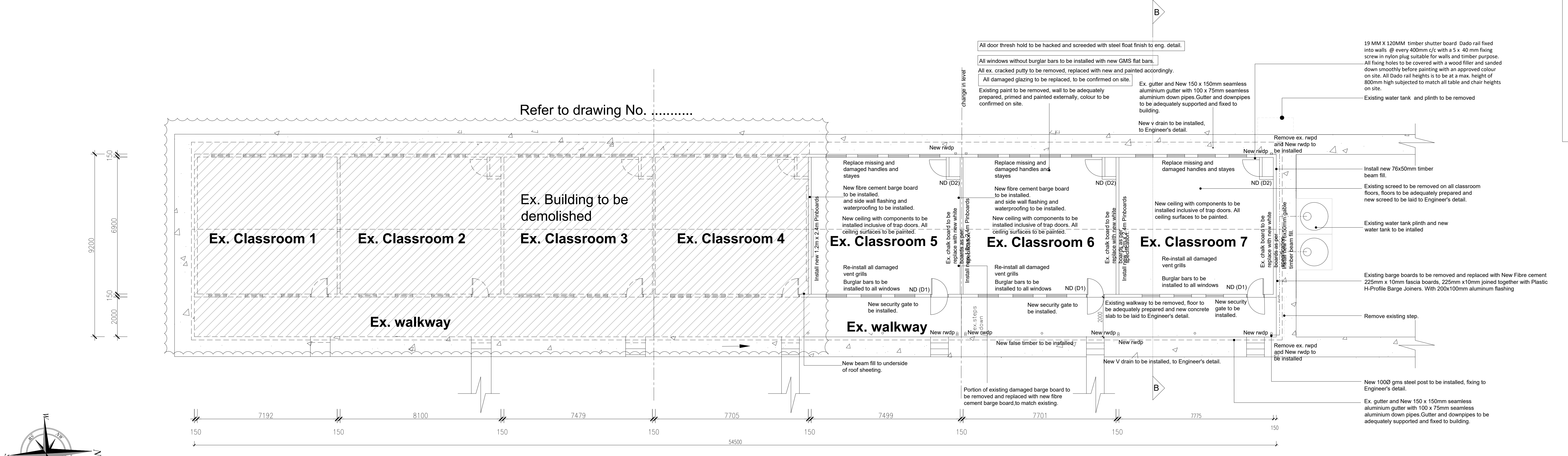
DS | SCALE: 1:50 | DETAIL DESCRIPTION. DOOR SCHEDULE



TYPE:	W1	W2
FRAME:	SS Industrial Type rolled steel window sections. SABS approved.	SS Industrial Type rolled steel window sections. SABS approved.
GLASS:	6mm laminated annealed safety glass puttied in with steel window putty.	6mm laminated annealed safety glass puttied in with steel window putty.
FITTINGS:	Approved standard brass fittings to suit opening sashes.	Approved standard brass fittings to suit opening sashes.
B.BARS	Nil	Nil
FINISH:	Galvanised. No painting required.	Galvanised. No painting required.
NOTES:	Cores adjacent to window jambs are to have cores filled allowing fixing lugs are to be built-in.	

WS | SCALE: 1:50 | DETAIL DESCRIPTION. WINDOW SCHEDULE

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.



Floor Plan Block B

Scale 1:100

GENERAL NOTES:

1. All dimensions to be checked before work commences. Architect to be notified immediately of any discrepancies, errors, omissions, etc.
2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless otherwise stated.
3. All levels to be checked on site before any work commences.
4. All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
5. Damproof course to comply with S.A.N.S. 10-400 requirements.
6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.
7. Workmanship is to be of the highest standard through-out.
8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.
9. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.
10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
11. All materials to be used in strict accordance to manufacturers specification
12. Soil poisoning to be used under all new concrete work and new water tank stands.
13. Screed to be applied as directed, to Engineers detail.
14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.
15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.
16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
17. 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 IBR (AZ150) profile 'colorplus' 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 sheeting 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 'colorplus' 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 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
OR
0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' 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 sheeting 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 scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheeting 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 (diagonally), 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.
-Broadflute closure or similar approved is to be installed for all IBR and Kliplok 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 broadflute closure and ridge cap (IBR and Kliplok 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 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 fill purlins to be installed at ridges 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 flange EPDM seal.
Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws 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.
-A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm 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. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing 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 joiners. 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 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:

150 x 150mm seamless aluminium gutters with end closers 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.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 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, be to indicated by responsible individual as required.
All founding and / or retaining walls to Structural Engineers details.
P.C. lintols to be installed over all new openings where walls to be plastered and painted, 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 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:

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

GMS POST:

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, 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 6mm toughened 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, hardener 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:

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded smooth and pre-varnished in mahogany, 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 581, laid in acrylic adhesive, spread with a 'Vicker A24F' 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 admixture.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer.
-Tile 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 fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide 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 all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed 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 BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine 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 NFX 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 - 30mmx3mm gms 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:

1140mm (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 Swing leaf Aluminium framed magnetic chalk boards(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 = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.
1 Complete full set of magnetic starter pack consisting of the following for each board supplied:
4 x white board markers Red, Green , Black , Blue,
1x cleaning Cloth
1x Magnetic Eraser
1x Cleaning Fluid 250 ml
4 x moulded magnets d 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 c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. 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, 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.

KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:

REALISING CONTINENTAL POTENTIAL

Signature: Date:

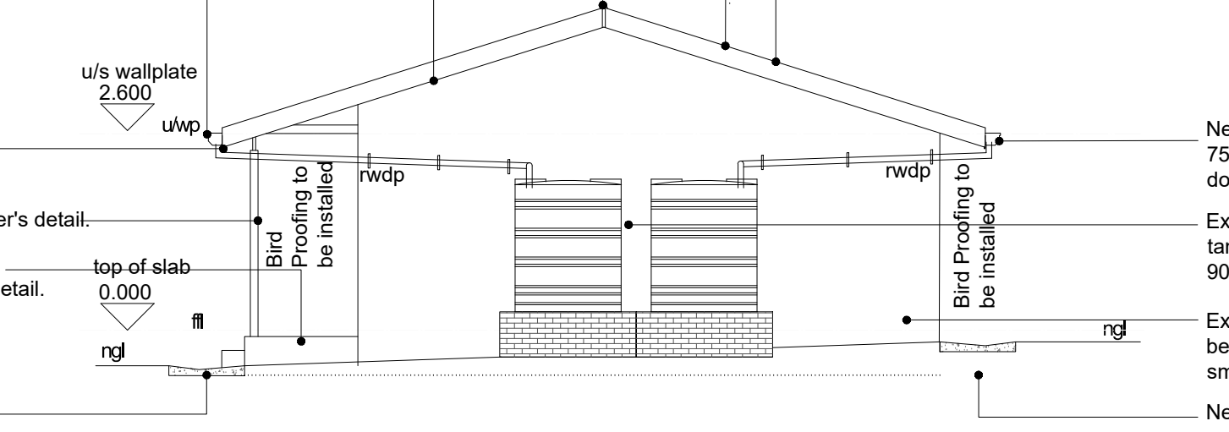
public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:

Construction Plans for Dalala Primary School - Part Block B

Drawn: T. Mkhize / M. Khan Date: 2022/11/05
Checked By: T. Mkhize Date: 2022/11/05
Scales: 1:100
Consultant Drawing No: 1392-18 WD03 Revision: .
DOPW CONTRACT No: ZNTL04781W Revision: .
DOPW WIMS No: WIMS : 063803
Stamped by Design Review Committee



Existing ridge cap to be removed , new Polyclosures (polyethylene) or similar approved to be installed and the existing ridge cap to be reinstated.

New Gable timber Plaster purling to be installed.

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New 100Ø gms steel post to be installed, fixing to Engineer's detail.

Existing walkway to be removed, floor to be adequately prepared and new concrete slab to be laid to Engineer's detail.

New v drain and steps to be installed, to Engineer's detail.

Additional Hurricane clip to be installed at eave purlin and apex purlin

Existing barge boards to be removed and replaced with New Fibre cement 225mm x 10mm fascia boards, 225mm x10mm joined together with Plastic H-Profile Barge Joiners. With 200x100mm aluminum flashing

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

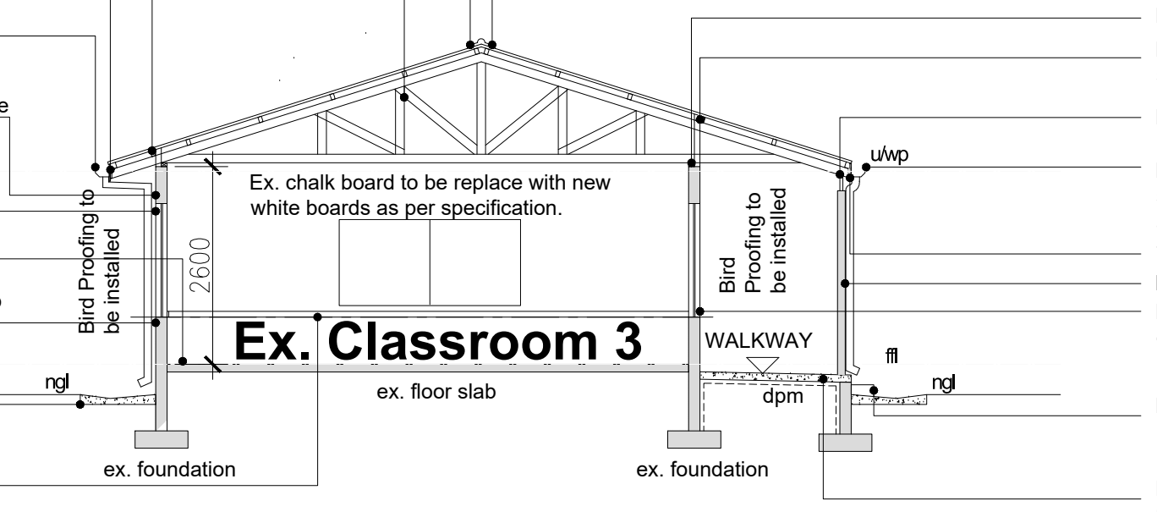
Existing water tank plinth to be demolished and water tank plinth to be constructed and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

Existing plaster to be patched and non structural cracks to be opened, cleaned out , filled and surfaced to be smoothened and painted to match existing colour.

New v drain to be installed, to Engineer's detail.

North Elevation Block B

Scale 1:100



Polyclosures (polyethylene) or similar approved to be installed at the ridge.

New timber roof trusses to be designed and installed as per engineers details.

New beamfill to be installed to the underside of the roof sheeting and smoothen out. New timber Plaster purling to be installed.

New 114 x 38mm false timber rafters to be installed. New Medium density plain fibre cement 225 X 10mm un-grooved fascia board to be installed.

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New vent grills to be installed were ever damaged or missing.

Portion number of new gms windows frames to be installed inclusive of glazing as per specification. Burglar bars to be installed to all windows

Existing surface bed to be removed, floor to be adequately prepared and new surface bed to be laid to Engineer's detail.

Existing damaged plaster to be removed, wall to be prepared and new plaster and paint to be applied internally and externally.

New v drain to be installed, to Engineer's detail.

19 MM X 120MM timber shutter board Dado rail fixed into walls @ every 400mm c/c with a 5 x 40 mm fixing screw in nylon plug suitable for walls and timber purpose. 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 is to be at a max. height of 800mm high subjected to match all table and chair heights on site.

New ceiling with components to be installed inclusive of trap doors. All ceiling surfaces to be painted.

New treated timber beam to be fixed as per engineers details.

New ridge cap to be installed with Polyclosure, to match existing on site. New 0.53mm thick, Aluminium-Zinc S-Profile (AZ150) profile 'colorplus' roof sheeting, (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.Purlins spaced as per manufacturers specifications. Purlins fixed to new trusses.
Roof trusses to be tied down to walls with 30mm x 1.6mm thick and 1.6mm long galvanised hoop iron straps built into brick work prior to erection of trusses. Trussed spaced as per Engineer's specification and resting on 114 x 38mm wall plates. All exposed timber to be painted with carbolineum.
All sheeting to be handled with care, no scratched or damaged sheeting to be installed.
"Super Sisalation FR 405 underlay over truss and under purlins on training tape. SIsalation not to extend into eaves.
Additional Hurricane clip to be installed at eave purlin and apex purlin

New 114 x 38mm wall plate to be installed on both eave ends.

New beamfill to be installed to the underside of the roof sheeting and smoothen out. New timber Plaster purling to be installed.

New treated timber beam to be fixed as per engineers details.

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

114 x 38mm false timber rafters to be installed

New 100Ø gms steel post to be installed, fixing to Engineer's detail.

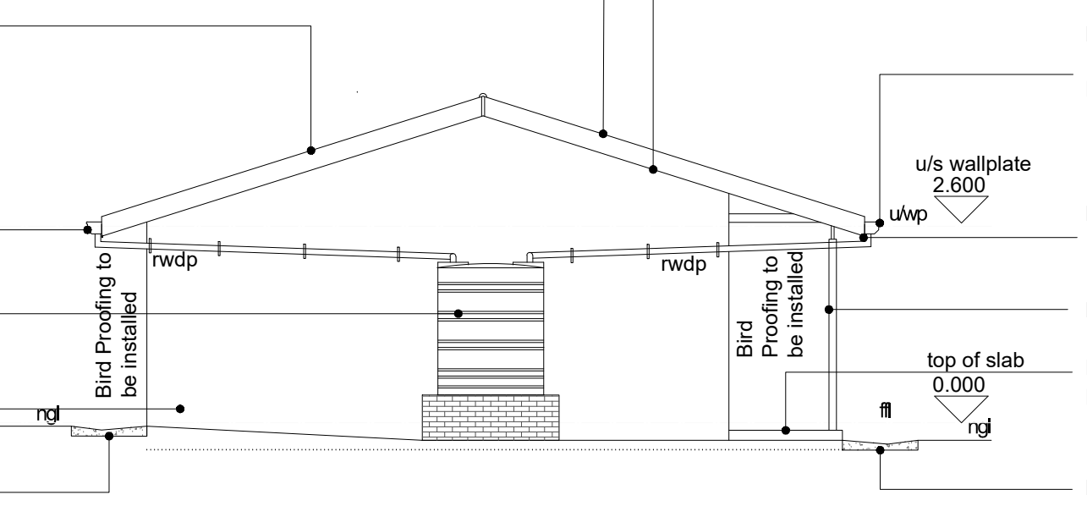
Portion number of new gms windows frames to be installed inclusive of glazing as per specification. Burglar bars to be installed to all windows

New v drain and concrete steps to be installed, as per Engineer's detail.

Existing walkway to be removed, floor to be adequately prepared and new concrete slab to be laid to Engineer's detail.

Section B-B

Scale 1:100



Existing barge boards to be removed and replaced with New Fibre cement 225mm x 10mm fascia boards, 225mm x10mm joined together with Plastic H-Profile Barge Joiners. With 200x100mm aluminum flashing

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

Existing water tank plinth to be demolished and water tank plinth to be constructed and New water tank plinth to be constructed. New 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow to be installed on plinth as directed on site. Water tank plinth to Engineer's detail.

Existing plaster to be removed, wall to be prepared and new plaster and paint to be applied internally and externally.

New v drain to be installed, to Engineer's detail.

Remove existing ridge cap, existing corrugated profile sheeting, and purlins in classrooms 1 & 2.
New ridge cap to be installed, to match existing on site.
New 0.53mm thick, Aluminium-Zinc S-Profile (AZ150) profile 'colorplus' roof sheeting, (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.Purlins spaced as per manufacturers specifications. Ex. trusses to be removed and new to be installed and new purlins fixed to new trusses.
All sheeting to be handled with care, no scratched or damaged sheeting to be installed.
"Super Sisalation FR 405 underlay over truss and under purlins on training tape. SIsalation not to extend into eaves.
Additional Hurricane clip to be installed at eave purlin and apex purlin

New Gable timber Plaster purling to be installed.

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium down pipes.Gutter and downpipes to be adequately supported and fixed to building.

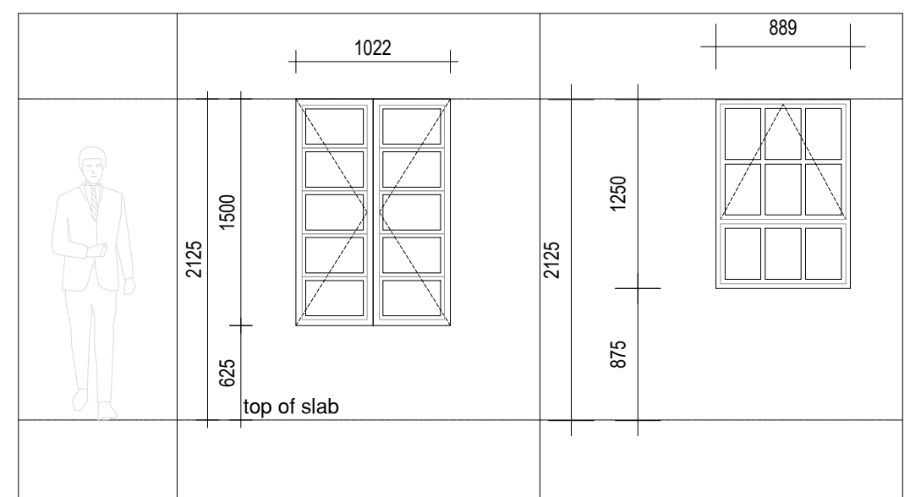
New 100Ø gms steel post to be installed, fixing to Engineer's detail.

Existing walkway to be removed, floor to be adequately prepared and new concrete slab to be laid to Engineer's detail.

New v drain to be installed, to Engineer's detail.

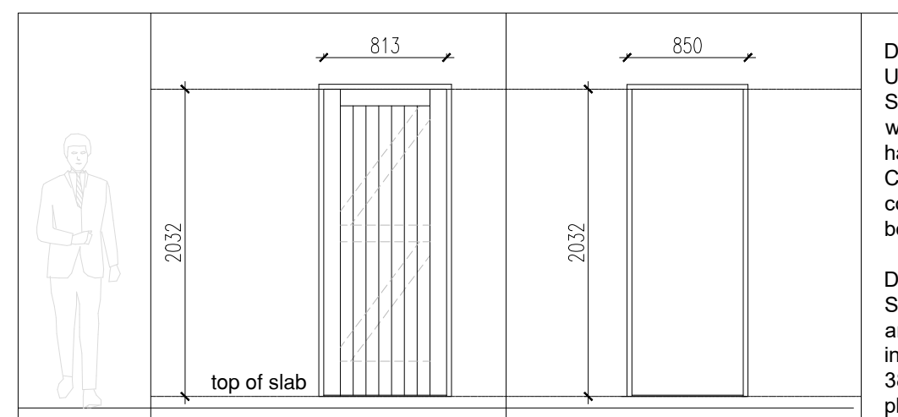
South Elevation Block B

Scale 1:100



TYPE:	W1	W2
FRAME:	SS Industrial Type rolled steel window sections. SABS approved.	SS Industrial Type rolled steel window sections. SABS approved.
GLASS:	6mm laminated annealed safety glass puttied in with steel window putty.	6mm laminated annealed safety glass puttied in with steel window putty.
FITTINGS:	Approved standard brass fittings to suit opening sashes.	Approved standard brass fittings to suit opening sashes.
B.BARS	Nil	Nil
FINISH:	Galvanised. No painting required.	Galvanised. No painting required.
NOTES:	Cores adjacent to window jambs are to have cores filled allowing fixing lugs are to be built-in.	

WS SCALE: 1:50 DETAIL DESCRIPTION. WINDOW SCHEDULE



TYPE:	D1 - EXTERNAL DOOR (ND01)	D2 - INTERNAL DOORS
FRAME:	1.2mm thick pressed double rebated mild steel door frame	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanised. Not painted	Hot dipped galvanised. 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, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens	2032 x 813 x 40mm SA Pine (osa) hardwood timber battened door, undercut 100mm from finished floor level.
DOOR FINISH:	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1 (9 Doors)	Door set 2 (14 Doors)
NOTES:	• Contractor to check no's required against drawings and schedules. • Any discrepancies to be brought to the Architects attention immediately.	

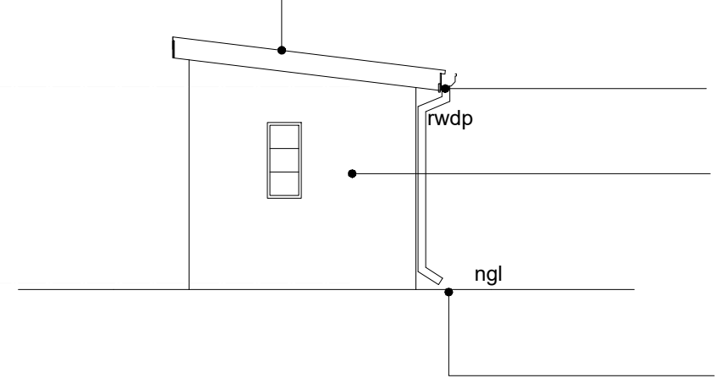
DOOR SET 1:
Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor bolt.

DOOR SET 2:
SOLID ART 294 WC anodised aluminium mortice indicator bolt.
38mm diameter door stop plugged and screwed to wall with a 50mm long brass screw.

STANDARD DOOR FRAME:
1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with straps for building in.
2 x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when bumped

NB: ALL IRONMONGERY TO BE SABS APPROVED.

DS SCALE: 1:50 DETAIL DESCRIPTION. DOOR SCHEDULE



Ex. sheeting replace with new 0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting, (Colour on top: to be confirmed and factory standard grey to underside) to match existing.
Ex. purlins to be removed and replaced with new purlins, 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).New reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties) over trusses and under purlins on training tape.
Remove ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium downpipes. Gutter and downpipes to be adequately supported and fixed to building, factory colour to match existing, to be confirmed on site.
New. fascia boards installed.

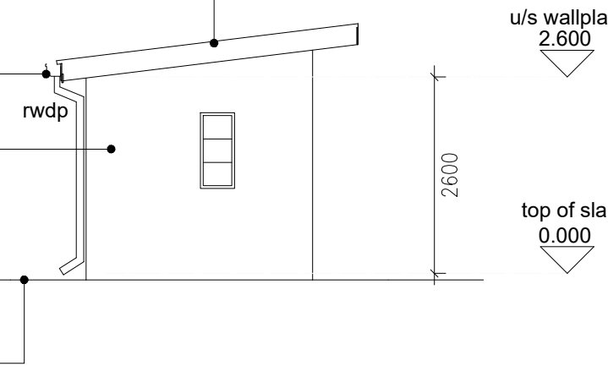
New timber 114x 38 false rafter to be installed.

Existing walls prepared and then painted internal and externally.

New concrete apron constructed as per eng. detail and spec.

Block D (E Elevation)

Scale 1:100



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New. fascia boards installed.

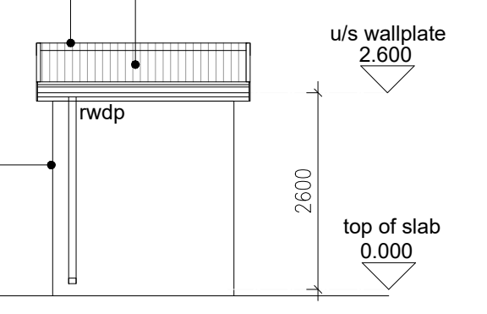
New timber 114x 38 false rafter to be installed.

Existing walls prepared and then painted internal and externally.

New concrete apron constructed as per eng. detail and spec.

Block D (W Elevation)

Scale 1:100



Ex. sheeting replace with new 0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting, (Colour on top: to be confirmed and factory standard grey to underside) to match existing.
Ex. purlins to be removed and replaced with new purlins, 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).New reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties) over trusses and under purlins on training tape.
Remove ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium downpipes. Gutter and downpipes to be adequately supported and fixed to building, factory colour to match existing, to be confirmed on site.
New. fascia boards installed.

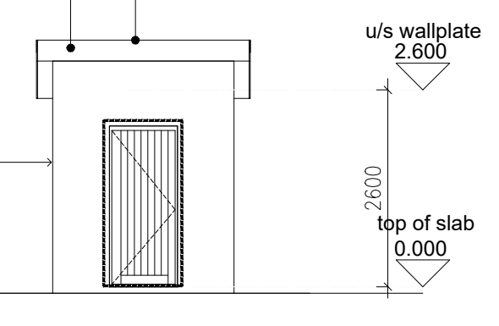
New approved flashing and water proofing installed at parapet walls.

Existing walls prepared and then painted internal and externally.

New concrete apron constructed as per eng. detail and spec.

Block D (N. Elevation)

Scale 1:100



Ex. sheeting replace with new 0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting, (Colour on top: to be confirmed and factory standard grey to underside) to match existing.
Ex. purlins to be removed and replaced with new purlins, 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).New reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties) over trusses and under purlins on training tape.
Remove ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium downpipes. Gutter and downpipes to be adequately supported and fixed to building, factory colour to match existing, to be confirmed on site.
New. fascia boards installed.

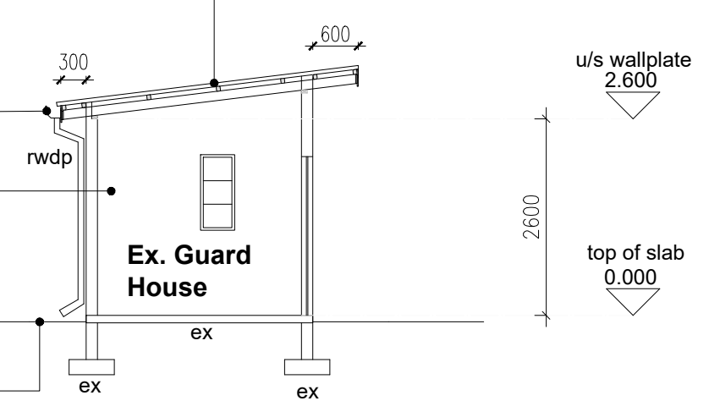
New approved flashing and water proofing installed at parapet walls.

Existing walls prepared and then painted internal and externally.

New concrete apron constructed as per eng. detail and spec.

Block D (S Elevation)

Scale 1:100



Ex. sheeting replace with new 0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting, (Colour on top: to be confirmed and factory standard grey to underside) to match existing.
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Remove ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium downpipes. Gutter and downpipes to be adequately supported and fixed to building, factory colour to match existing, to be confirmed on site.
New. fascia boards installed.

New timber 114x 38 false rafter to be installed.

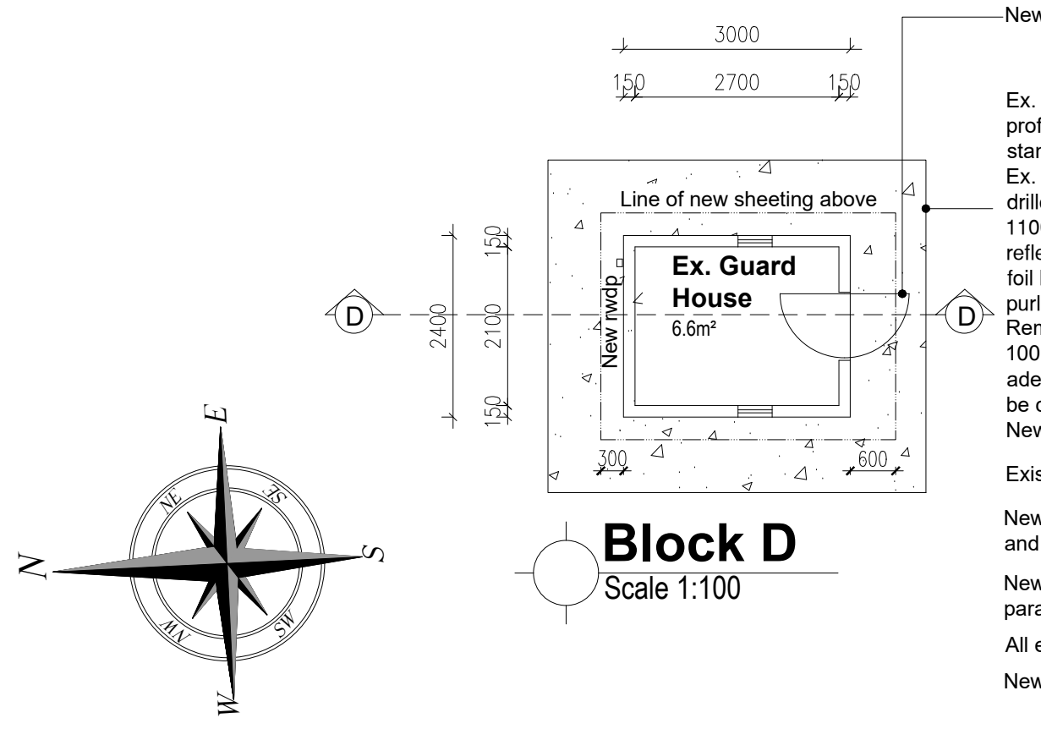
Existing walls prepared and then painted internal and externally.

New concrete apron constructed as per eng. detail and spec.

Block D (Section A-A)

Scale 1:100

All damaged glazing to be replaced, to be confirmed on site.



New security gate installed as per spec.

Ex. sheeting replace with new 0.53mm thick, Aluminium-Zinc IBR (AZ150) profile 'colorplus' roof sheeting, (Colour on top: to be confirmed and factory standard grey to underside) to match existing.
Ex. purlins to be removed and replaced with new purlins, 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).New reflective foil insulation underlay (economical, durable, double sided reflective foil laminate with advanced fire retardant properties) over trusses and under purlins on training tape.
Remove ex. gutter and New 150 x 150mm seamless aluminium gutter with 100 x 75mm seamless aluminium downpipes. Gutter and downpipes to be adequately supported and fixed to building, factory colour to match existing, to be confirmed on site.
New. fascia boards installed.

Existing walls prepared and then painted internal and externally.

New concrete apron constructed as per eng. detail and spec.

New approved flashing and water proofing installed at parapet walls.

All exposed timber to be painted with carbolineum

New timber 114x 38 false rafter to be installed.

Block D

Scale 1:100

GENERAL NOTES:

1. All dimensions to be checked before work commences. Architect to be notified immediately of any discrepancies, errors, omissions, etc.
2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless otherwise stated.
3. All levels to be checked on site before any work commences.
4. All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
5. Damproof course to comply with S.A.N.S. 10-400 requirements.
6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.
7. Workmanship is to be of the highest standard through-out.
8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.
9. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.
10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
11. All materials to be used in strict accordance to manufacturers specification
12. Soil poisoning to be used under all new concrete work and new water tank stands.
13. Screed to be applied as directed, to Engineers detail.
14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.
15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.
16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
17. 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 IBR (AZ150) profile 'colorplus' 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 sheeting 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 'colorplus' 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 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
OR
0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' 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 sheeting 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 scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheeting 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 (diagonally), 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.
-Broadflute closure or similar approved is to be installed for all IBR and Kliplok 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 broadflute closure and ridge cap (IBR and Kliplok 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 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 fill purlins to be installed at ridges 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 flange EPDM seal.
Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal.
new roofs to use these screws 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.
-A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm 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. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing 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 joiners. 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 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:

150 x 150mm seamless aluminium gutters with end closers 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.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 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, be to indicated by responsible individual as required.
All founding and / or retaining walls to Structural Engineers details.
P.C. lintols to be installed over all new openings where walls to be plastered and painted, 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 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:

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

GMS POST:

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, 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 6mm toughened 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, hardener 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:

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded smooth and pre-varnished in mahogany, 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 581, laid in acrylic adhesive, spread with a 'Vicker A24F' 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 admixture.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer.
-Tile 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 fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide 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 all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed 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 BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine 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 NFX 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 - 30mmx3mm gms 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:

1140mm (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 Swing leaf Aluminium framed magnetic chalk boards(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 = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.
1 Complete full set of magnetic starter pack consisting of the following for each board supplied:
4 x white board markers Red, Green , Black , Blue,
1x cleaning Cloth
1x Magnetic Eraser
1x Cleaning Fluid 250 ml
4 x moulded magnets d 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 c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. 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, 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.

KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:

REALISING CONTINENTAL POTENTIAL

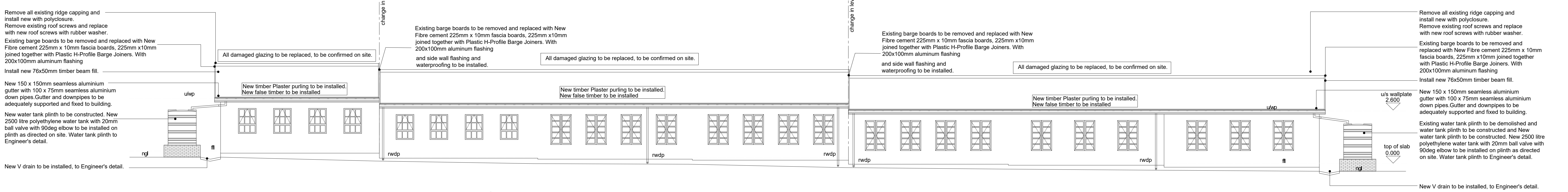
Signature: Date:

public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

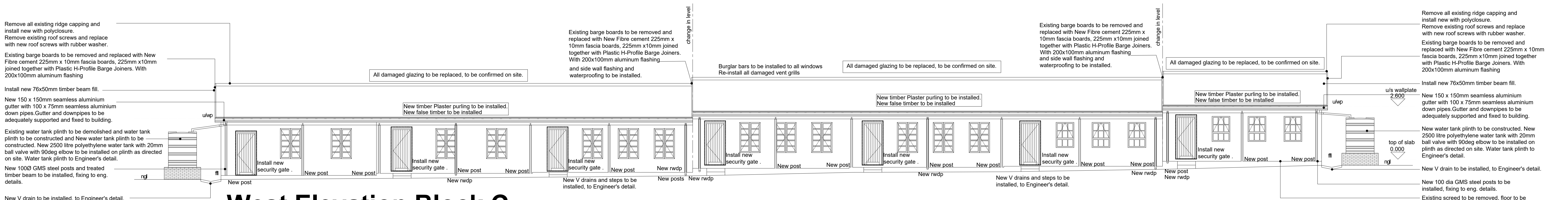
Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:
Construction Plans for Dalala Primary School - Part Block B and Block D

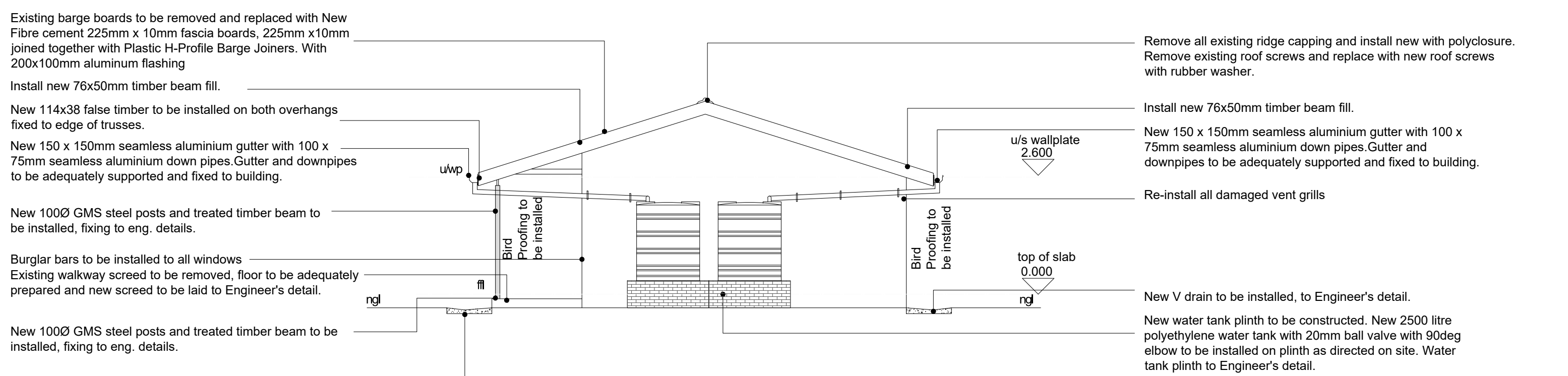
Drawn: T. Mkhize / M. Khan	Date: 2022/11/05
Checked By: T. Mkhize	Date: 2022/11/05
Scales: 1:100	
Consultant Drawing No: 1392-18 WD04	Revision: .
DOPW CONTRACT No: ZNTL04781W	Revision: .
DOPW WIMS No: WIMS : 063803	
Stamped by Design Review Committee	



East Elevation Block C
Scale 1:100



West Elevation Block C
Scale 1:100



South Elevation Block C
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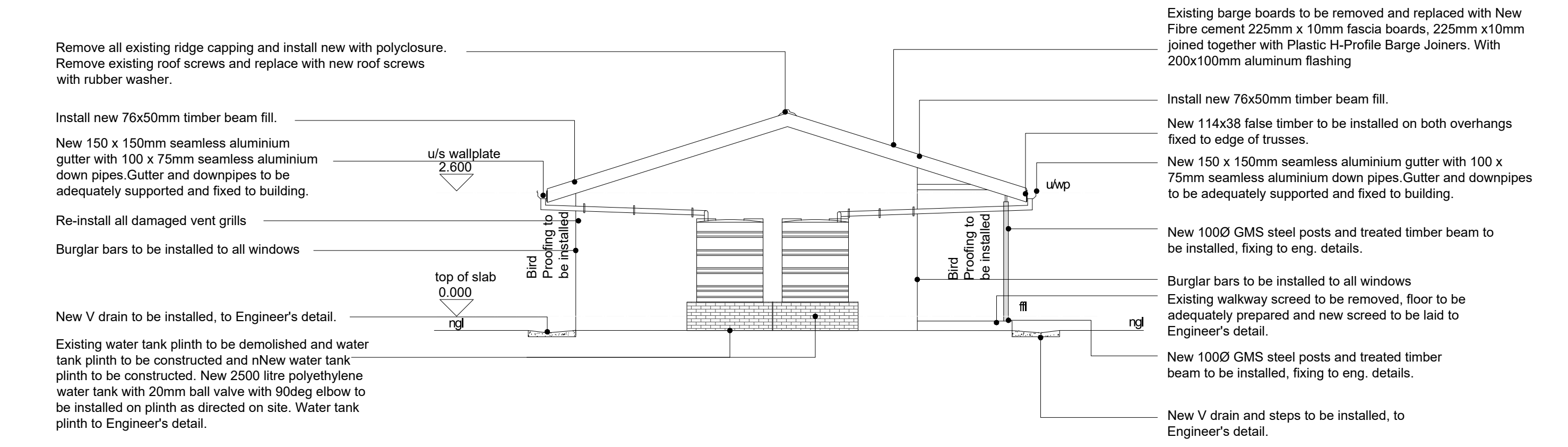
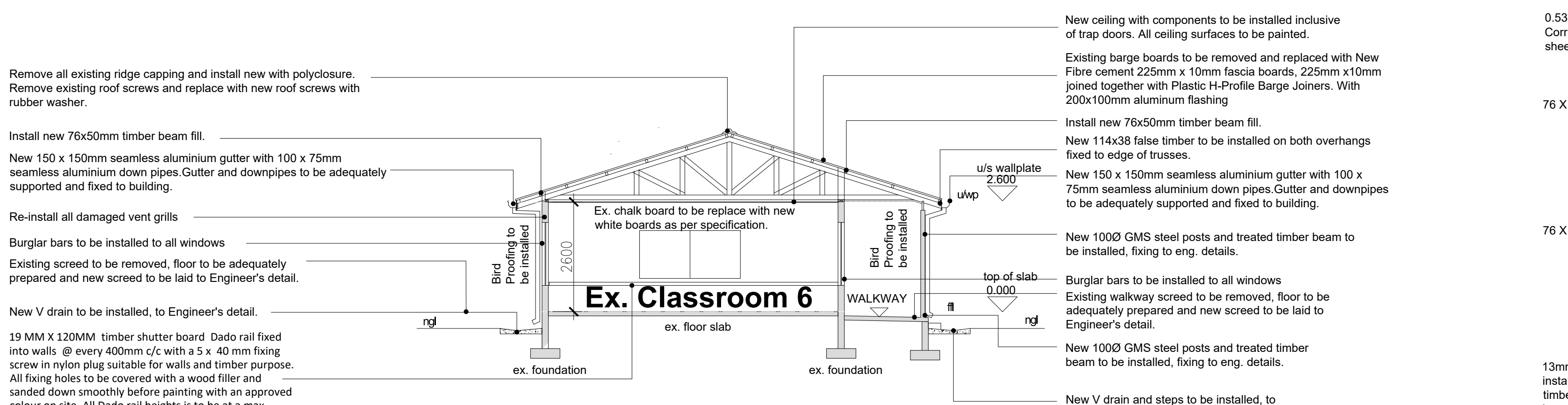
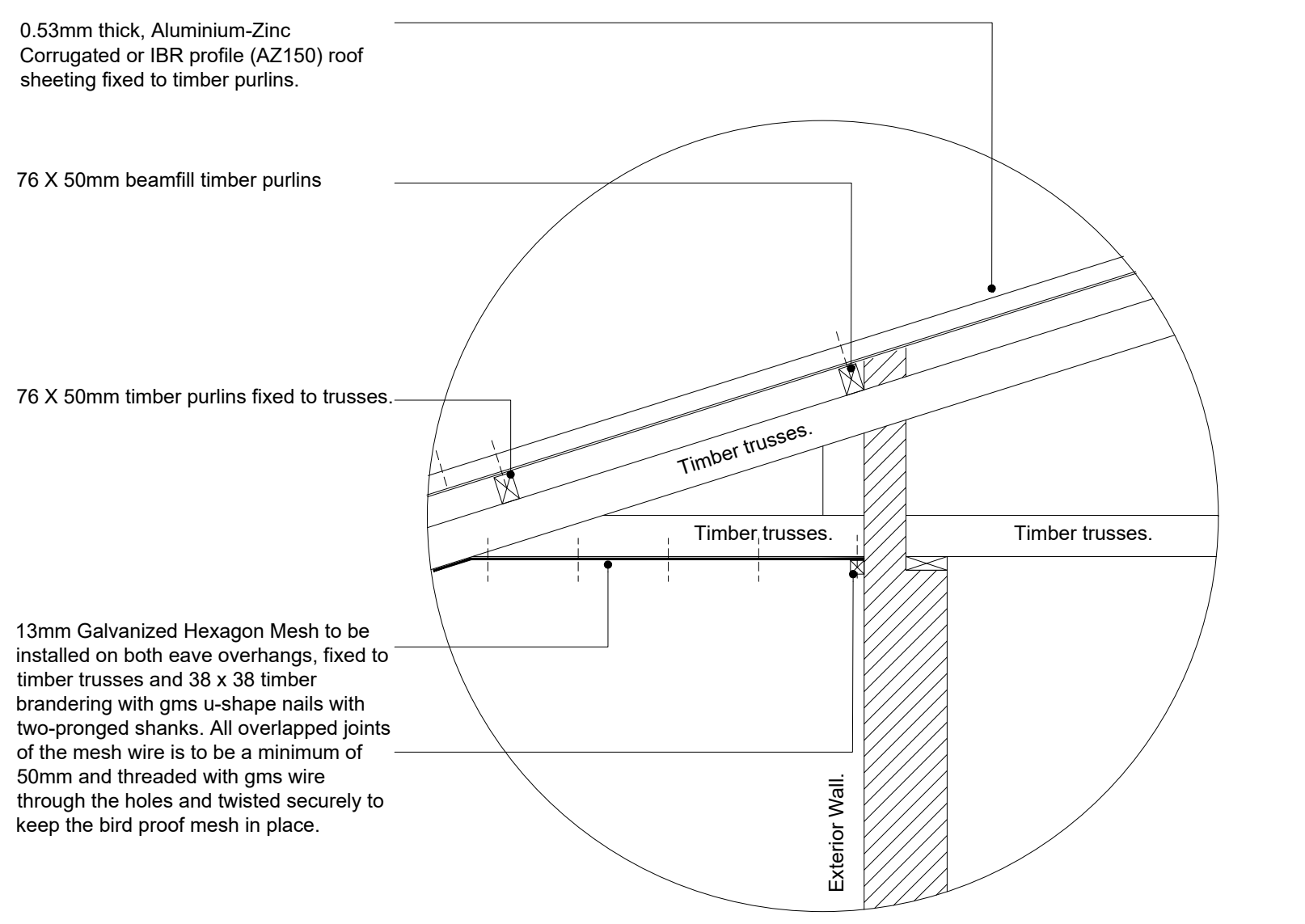


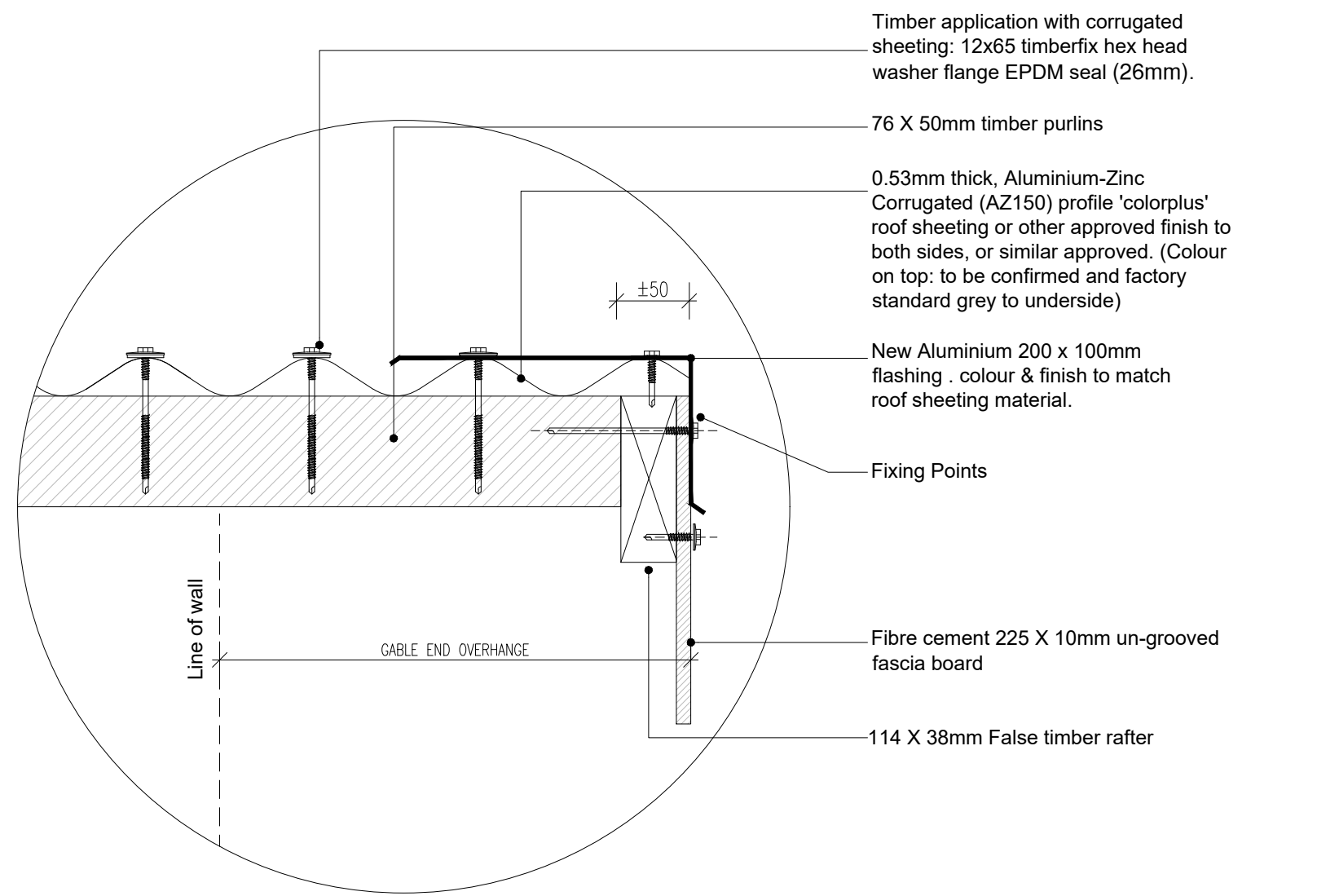
North Elevation Block C
Scale 1:100



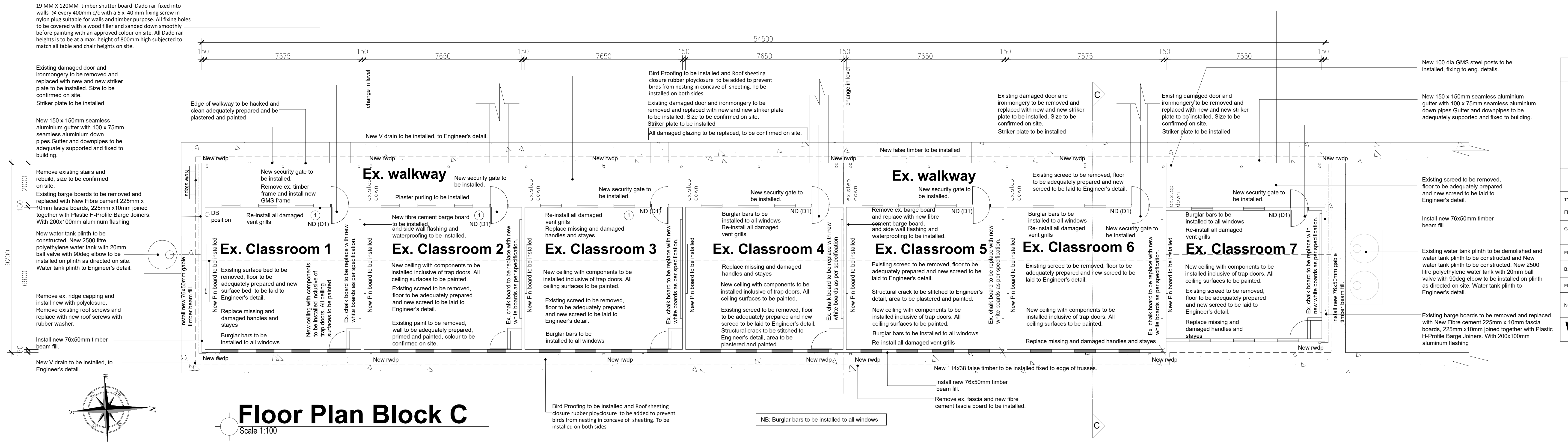
Section C-C
Scale 1:100



Typical bird proofing detail
Scale 1:5



TYPICAL CORREGATED ROOF FLASHING DETAIL
Scale 1:5



Floor Plan Block C
Scale 1:100

GENERAL NOTES:

1. All dimensions to be checked before work commences. Architect to be notified immediately of any discrepancies, errors, omissions, etc.
2. Only figured dimensions to be taken: drawings are not to be scaled. All dimensions in mm's unless otherwise stated.
3. All levels to be checked on site before any work commences.
4. All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
5. Damproof course to comply with S.A.N.S. 10-400 requirements.
6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.
7. Workmanship is to be of the highest standard through-out.
8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.
9. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.
10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
11. All materials to be used in strict accordance to manufacturers specification
12. Soil poisoning to be used under all new concrete work and new water tank stands.
13. Screed to be applied as directed, to Engineers detail.
14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.
15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.
16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
17. 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 IBR (AZ150) profile 'colorplus' 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 sheeting 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 'colorplus' 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 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
OR
0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' 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 sheeting 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 scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheeting 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 (diagonally), 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.
-Broadflute closure or similar approved is to be installed for all IBR and Kliplok 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 broadflute closure and ridge cap (IBR and Kliplok 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 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 fill purlins to be installed at ridges 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 flange EPDM seal.
Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws 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.
-A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm 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. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing 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 joiners. 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 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:

150 x 150mm seamless aluminium gutters with end closers 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.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 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, be to indicated by responsible individual as required.
All founding and / or retaining walls to Structural Engineers details.
P.C. lintols to be installed over all new openings where walls to be plastered and painted, 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 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:

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

GMS POST:

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, 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 6mm toughened 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, hardener 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:

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded smooth and pre-varnished in mahogany, 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 581, laid in acrylic adhesive, spread with a 'Vicker A24F' 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 admixture.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer.
-Tile 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 fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide 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 all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed 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 BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine 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 NFX 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 - 30mmx3mm gms 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:

1140mm (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 Swing leaf Aluminium framed magnetic chalk boards(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 = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.
1 Complete full set of magnetic starter pack consisting of the following for each board supplied:
4 x white board markers Red, Green , Black , Blue,
1x cleaning Cloth
1x Magnetic Eraser
1x Cleaning Fluid 250 ml
4 x moulded magnets d day

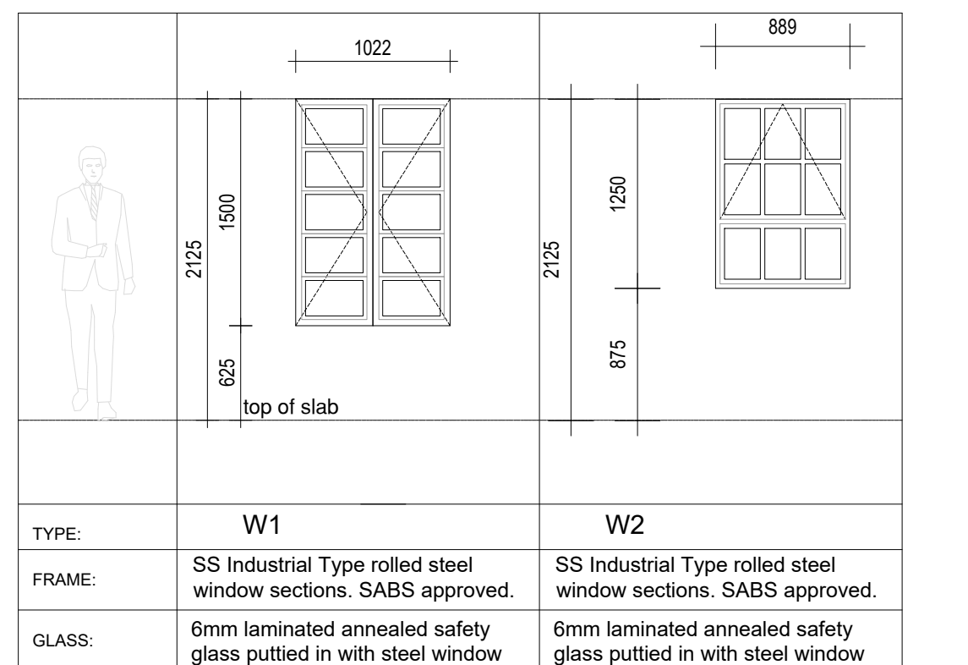
PINING BOARD:

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:

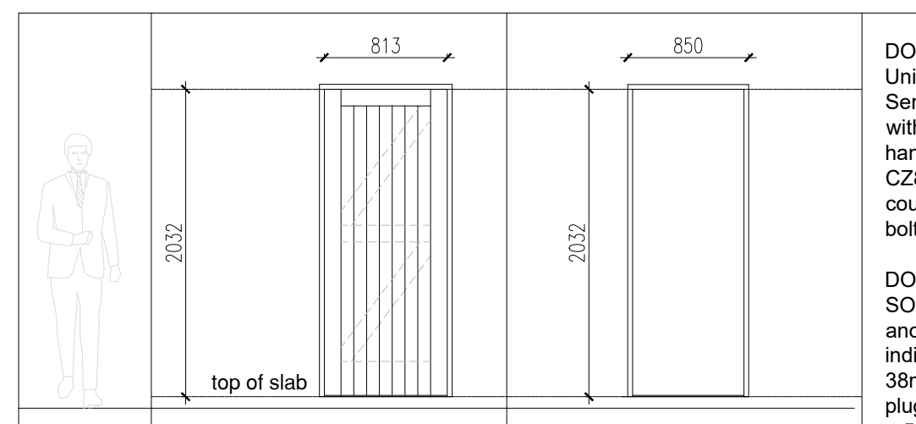
New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All fixing holes to be covered with a wood filler and sanded down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, 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.



TYPE:	W1	W2
FRAME:	SS Industrial Type rolled steel window sections. SABS approved.	SS Industrial Type rolled steel window sections. SABS approved.
GLASS:	6mm laminated annealed safety glass puttied in with steel window putty.	6mm laminated annealed safety glass puttied in with steel window putty.
FITTINGS:	Approved standard brass fittings to suit opening sashes.	Approved standard brass fittings to suit opening sashes.
B.BARS	As per plan	As per plan
FINISH:	Galvanised. No painting required.	Galvanised. No painting required.
NOTES:	Cores adjacent to window jambs are to have cores filled allowing fixing lugs are to be built-in.	

WS	SCALE: 1:50	DETAIL DESCRIPTION. WINDOW SCHEDULE



TYPE:	D1 - EXTERNAL DOOR (ND01)	D2 - INTERNAL DOORS
FRAME:	1.2mm thick pressed double rebated mild steel door frame	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanised. Not painted	Hot dipped galvanised. 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, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens	2032 x 813 x 40mm SA Pine (osa) hardwood timber battened door, undercut 100mm from finished floor level.
DOOR FINISH:	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1 (7 Doors)	Door set 2 (4 Doors)
NOTES:	• Contractor to check no's required against drawings and schedules. • Any discrepancies to be brought to the Architects attention immediately.	

DOOR SET 1:
Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor bolt.

DOOR SET 2:
SOLID ART 294 WC anodised aluminium mortice indicator bolt.
38mm diameter door stop plugged and screwed to wall with a 50mm long brass screw.

STANDARD DOOR FRAME:
1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with straps for building in.
2 x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when bumped

NB: ALL IRONMONGERY TO BE SABS APPROVED.

DS	SCALE: 1:50	DETAIL DESCRIPTION. DOOR SCHEDULE

KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:

REALISING CONTINENTAL POTENTIAL

Signature: Date:

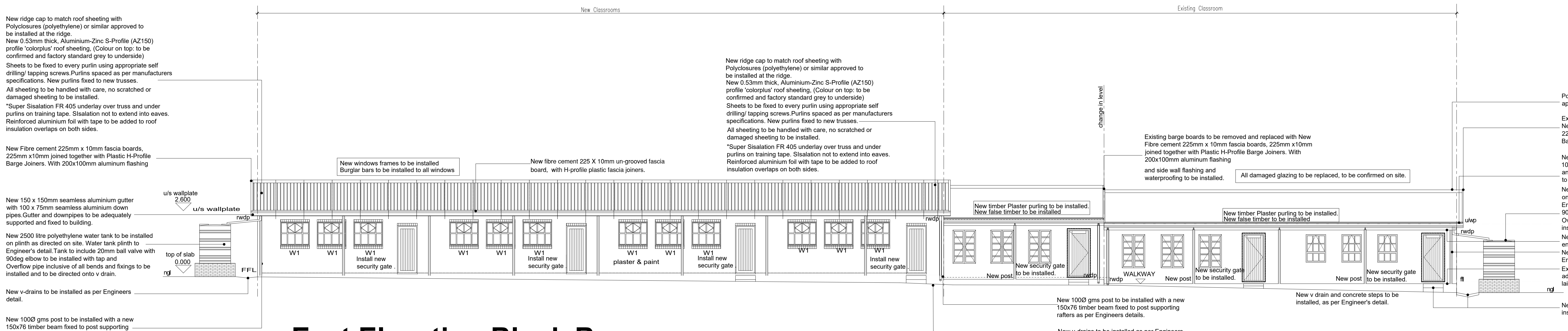
public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:
Construction Plans for Dalala Primary School - Part Block C and Eaves Details

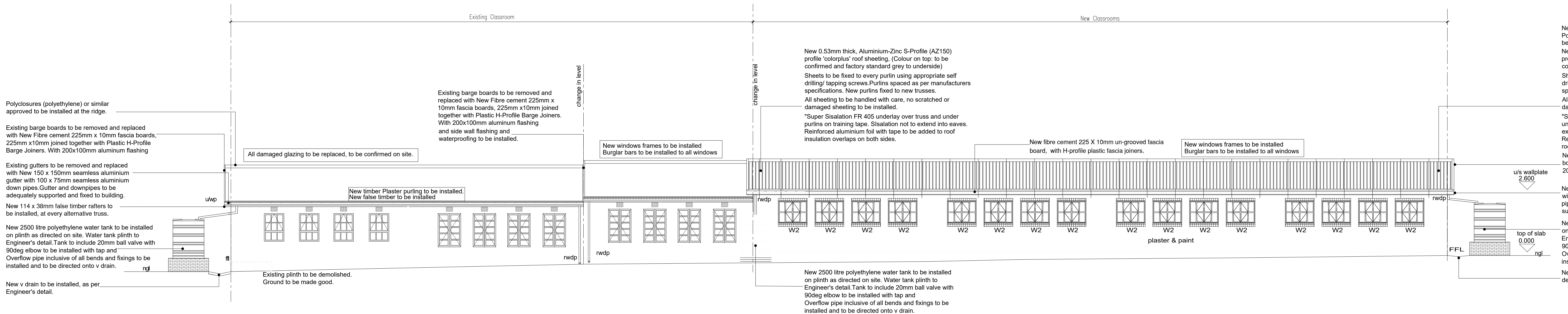
Drawn: T. Mkhize / M. Khan	Date: 2022/11/05
Checked By: T. Mkhize	Date: 2022/11/05
Scales: 1:100	
Consultant Drawing No: 1392-18 WD05	Revision: .
DOPW CONTRACT No: ZNTL04781W	Revision: .
DOPW WIMS No: WIMS : 063803	
Stamped by Design Review Committee	

Sheet 6 of 6 (A0)



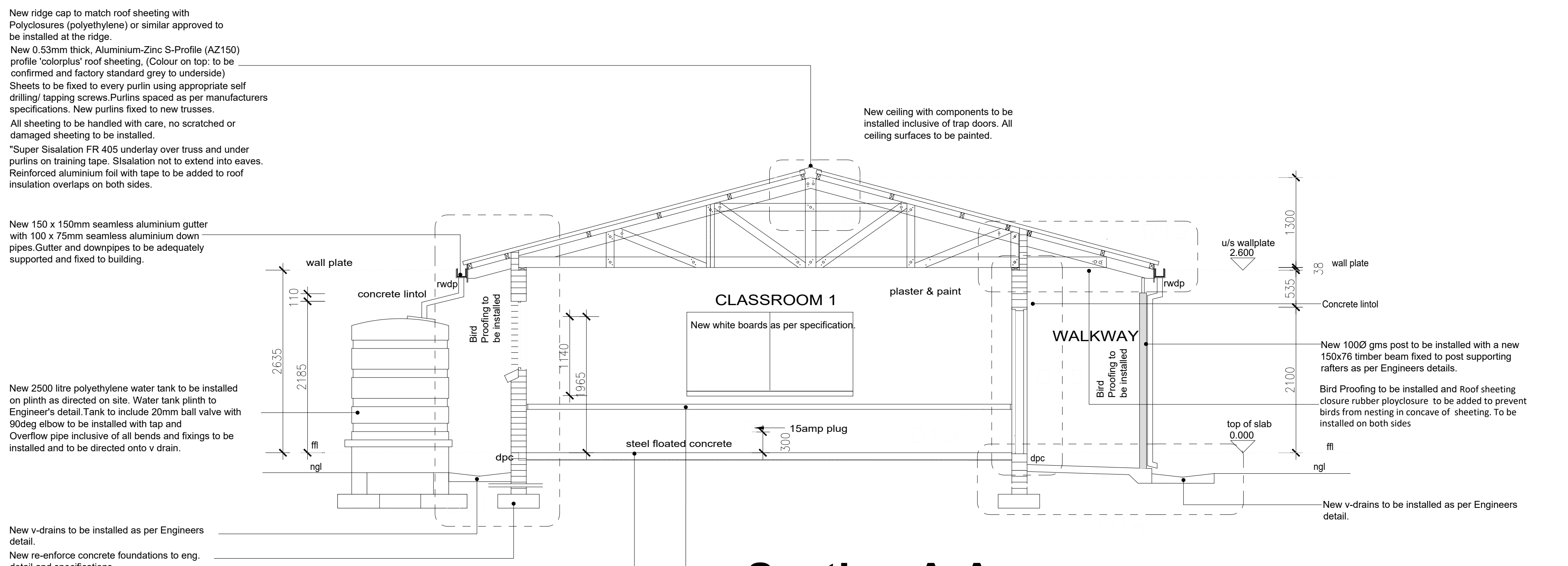
East Elevation Block B

Scale 1:100



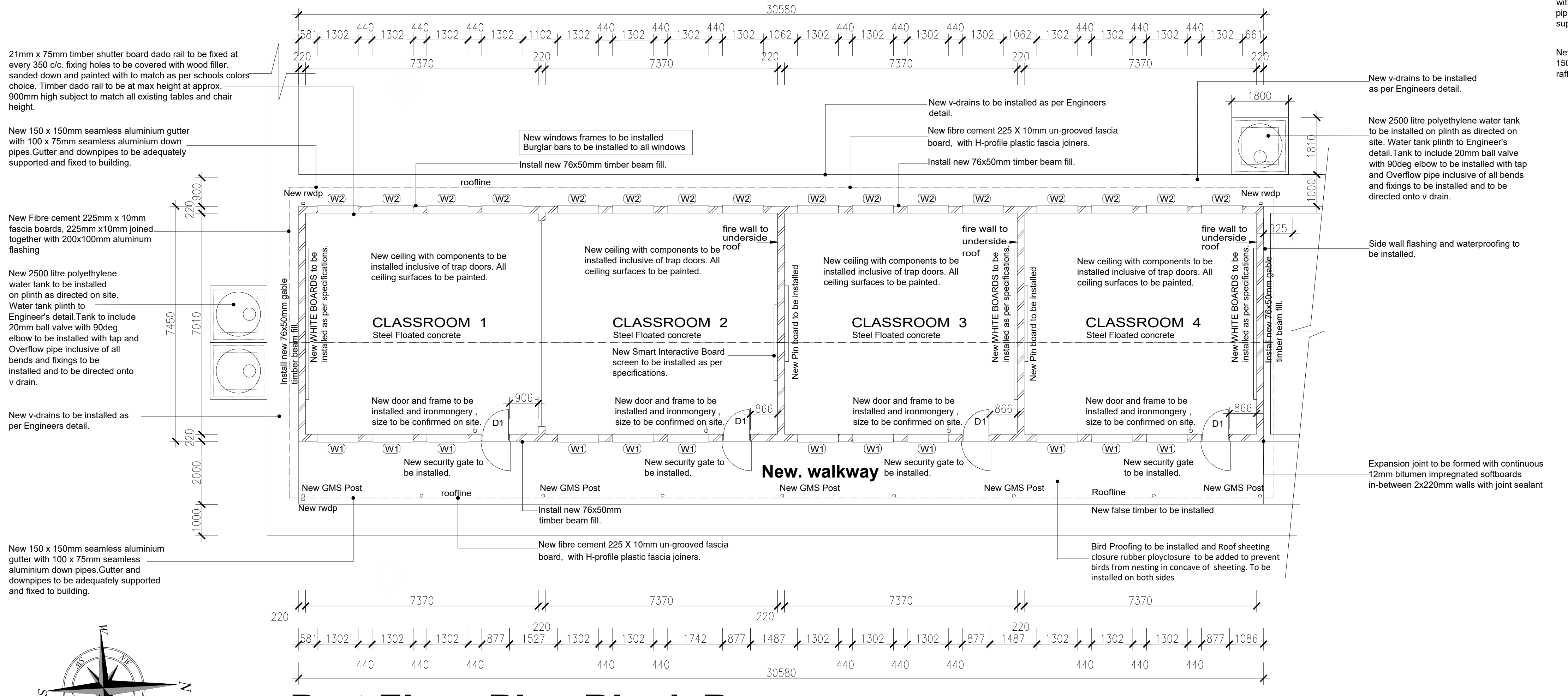
West Elevation Block B

Scale 1:100



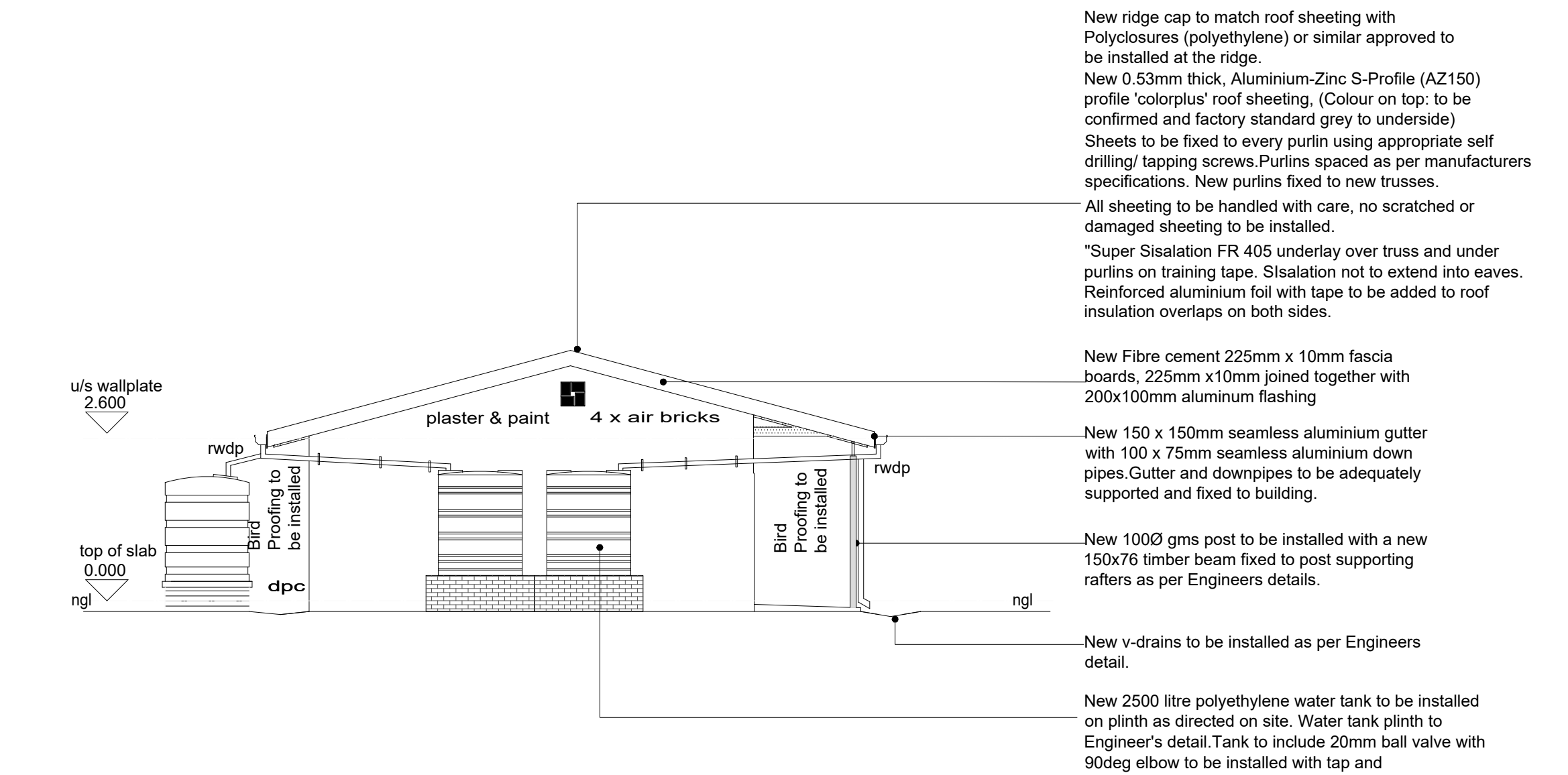
Section A-A

Scale 1:50



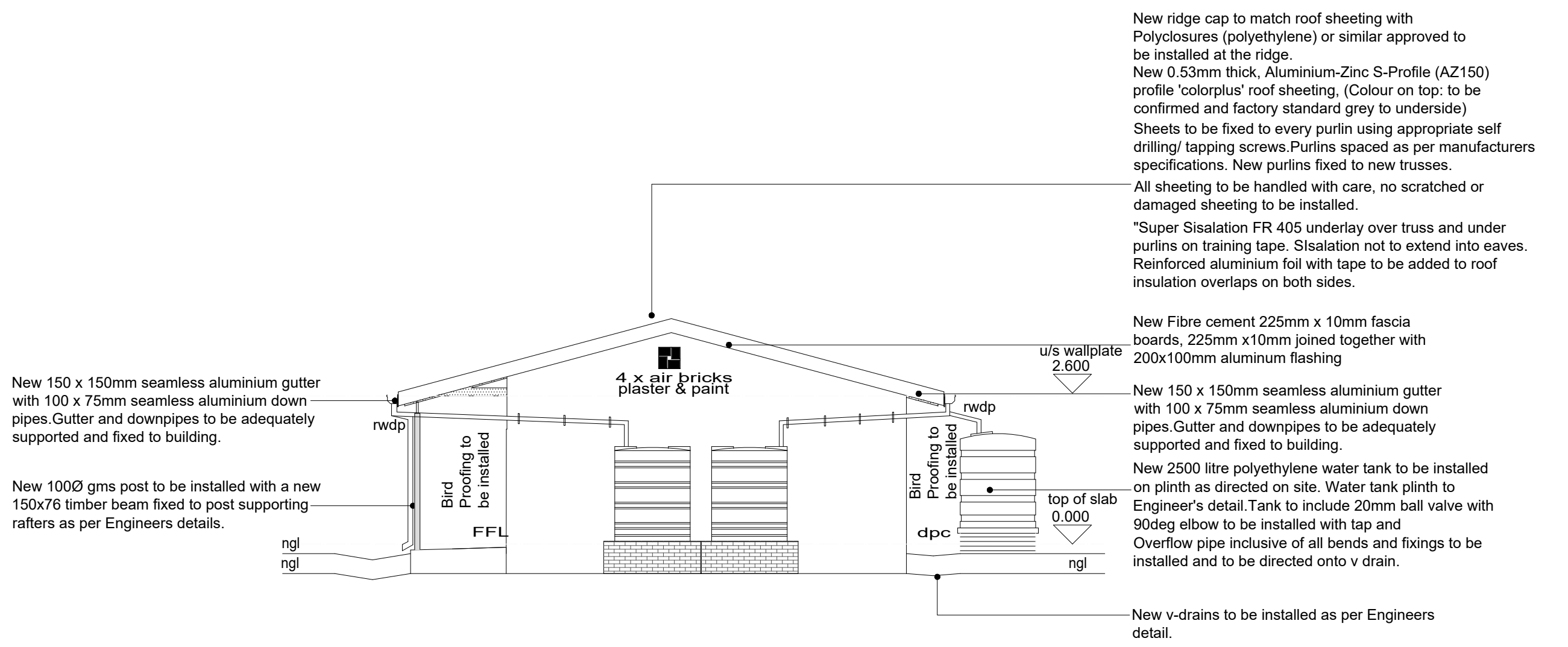
Part Floor Plan Block B

Scale 1:100



South Elevation Block B

Scale 1:100



North Elevation Block B

Scale 1:100

GENERAL NOTES:

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3. All levels to be checked on site before any work commences.
4. All reinforced concrete work to be strictly in accordance with structural engineers detail and specification.
5. Damproof course to comply with S.A.N.S. 10-400 requirements.
6. All walls to be reinforced with two courses brickforce at cill and wall plate levels.
7. Workmanship is to be of the highest standard through-out.
8. The contractor is to locate and identify any / all existing services and to protect these from damage whilst on site throughout the contract period.
9. The contractor is responsible for the correct setting out of all works, particularly boundaries, building lines servitude's, etc.
10. All work to be executed in strict accordance to S.A.N.S. 10-400 and LOCAL AUTHORITY BY-LAWS.
11. All materials to be used in strict accordance to manufacturers specification
12. Soil poisoning to be used under all new concrete work and new water tank stands.
13. Screed to be applied as directed, to Engineers detail.
14. Polyclosurers to be installed as indicated in drawings, and to be confirmed on site.
15. Roof element sizes and specifications as per drawings and to be confirmed on site (trusses, purlins, rafters, roof sheeting, fascia, barge board brandering, ceilings, trap doors and cornices), and to match existing where applicable.
16. Removal of asbestos to be in strict accordance with The Department of Labour and OHS regulations and procedures.
17. 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 IBR (AZ150) profile 'colorplus' 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 sheeting 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 'colorplus' 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 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 sheeting requirements) on engineered timber trusses (trusses and purlins to be replaced where specified and sizes may vary).
OR
0.53mm thick, Aluminium-Zinc Kliplok 700 (AZ150) profile 'colorplus' 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 sheeting 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 scratched or damaged sheeting shall be installed. All scratched or damaged sheets to be removed off site immediately. Sheeting 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 (diagonally), 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.
-Broadflute closure or similar approved is to be installed for all IBR and Kliplok 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 broadflute closure and ridge cap (IBR and Kliplok 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 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 fill purlins to be installed at ridges 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 flange EPDM seal.
Timber application with IBR sheeting: 12x85 timberfix hex head washer flange EPDM seal. new roofs to use these screws 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.
-A020 re-enforced aluminum foil tape to be added on the underside and on top of sisilation where sheets overlaps on both sides

AIR-BRICKS:

229 x 152mm 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. Fix 76 x 50mm timber trimmer batten to underside of purlin ends for barge board fixing. Drill for and fix fascia board to trimmer batten with hot-dipped galvanised screws and washers. 200 x 100mm aluminum flashing 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 joiners. 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 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:

150 x 150mm seamless aluminium gutters with end closers 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.

CEILINGS:

9mm thick fibre cement plain boards, fixed to 38 x 50 on edge timber brandering at max 600mm centres with timber cover strips at joins. Cross brandering to be used at 150mm centres at joints, ends of sheets, cornices and light fittings. All nail heads to be stopped & sanded level and fixed to trusses at max 1420mm centres. Cornices to be 75mm fibre cement, glued to ceiling board and wall with a good adhesive. Ceiling and cornice to be prepared adequately and painted 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, be to indicated by responsible individual as required.
All founding and / or retaining walls to Structural Engineers details.
P.C. lintols to be installed over all new openings where walls to be plastered and painted, 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 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:

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

GMS POST:

100Ø gms steel post to be installed as indicated, fixing to Engineer's detail. Posts to be fixed to concrete and not screed, 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 6mm toughened 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, hardener 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:

18mm x 75mm Meranti skirting, or similar approved with 19mm timber quadrant sanded smooth and pre-varnished in mahogany, 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 581, laid in acrylic adhesive, spread with a 'Vicker A24F' 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 admixture.

The newly laid floor after 72 hours must be stripped using a good Stripper, rinsed using a good Rinse and then sealed with 3 coats of a good Sealer.
-Tile 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 fill compacted to MOD AASHTO 95% or as specified & approved by engineer. Control joints sealed with 12mm polysulphide 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 all gaps, area to be treated with soil poisoning as per manufacturer's specification. Gaps to be sealed with polysulphide 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 plinth constructed to Engineers detail, with 2500 litre polyethylene water tank with 20mm ball valve with 90deg elbow tied down with twisted galvanised wire fixed 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 BOQ. Screed to fall around tank once installed. The above fixing method also applies to existing water tanks on existing or new plinths.

BRICK WORK:

Corobrik® (Lawley-Gauteng) 20-30 MPa Montana Traventine 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 NFX 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 - 30mmx3mm gms 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:

1140mm (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 Swing leaf Aluminium framed magnetic chalk boards(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 = 2420x 1220 mm with Swing leaf chalk boards sizes to be 1220x 1210 mm. Aluminium pen tray length 2250mm fitted to Centre board.
1 Complete full set of magnetic starter pack consisting of the following for each board supplied:
4 x white board markers Red, Green , Black , Blue,
1x cleaning Cloth
1x Magnetic Eraser
1x Cleaning Fluid 250 ml
4 x moulded magnets d day

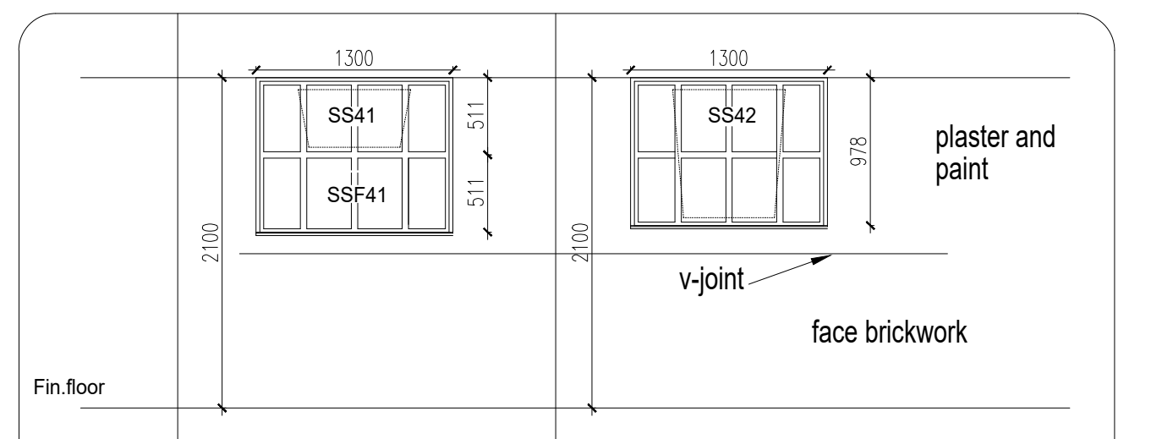
PINING BOARD:

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:

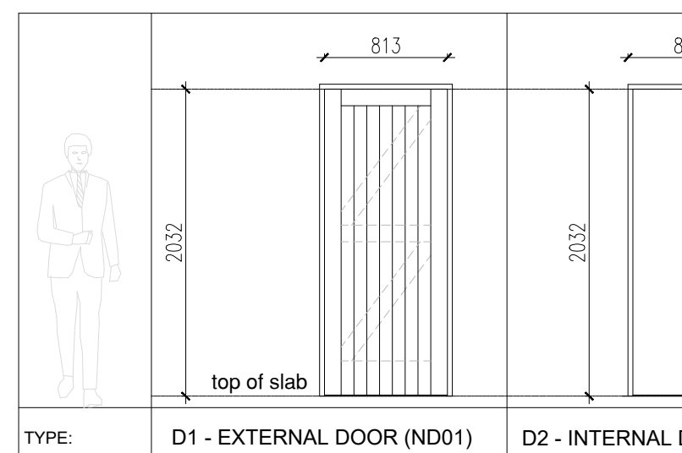
New 19mm x 120mm timber shutter board Dado rail fixed into walls @ every 400mm c/c , with a 5 x 40mm fixing screw in nylon plug suitable for walls and timber purpose. All fixing holes to be covered with a wood filler and sanded down smoothly before painting with an approved colour on site. All Dado rail heights to be at max. height of 800mm high, 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.



TYPE:	W1 (12 required)	W2 (16 required)
FRAME:	SS Industrial Type rolled steel window sections. SABS approved.	SS Industrial Type rolled steel window sections. SABS approved.
GLASS:	4mm Clear float glass puttied in with steel window putty.	4mm Clear float glass puttied in with steel window putty.
FITTINGS:	Approved standard brass fittings to suite opening sashes.	Approved standard brass fittings to suite opening sashes.
B.BARS	GMS as per manufacturers spec.	GMS as per manufacturers spec.
FINISH:	Galvanised. No painting required.	Galvanised. No painting required.
NOTES:	Cores adjacent to window jambs are to have cores filled allowing fixing lugs are to be built-in. (Similar to door detail below).	

WS 1:50 WINDOW SCHEDULE



TYPE:	D1 - EXTERNAL DOOR (ND01)	D2 - INTERNAL DOORS
FRAME:	1.2mm thick pressed double rebated mild steel door frame	1.2mm thick pressed double rebated mild steel door frame
FRAME FINISH:	Hot dipped galvanised. Not painted	Hot dipped galvanised. 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, 225 x 20mm bottom ledge, 110 x 20mm braces & min. x 20 T.G. & V jointed battens	2032 x 813 x 40mm SA Pine (osa) hardwood timber battened door, undercut 100mm from finished floor level.
DOOR FINISH:	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.	Door: Sand smooth and dust off. Seal knots with "KNOT SEAL (PK 2)", then prime with "PLASCON WOOD PRIMER (UC 2)" there after apply one or more coats of "Plascon ENAMEL DOORS & TRIMS" to achieve complete obliteration. Colour: Calypso, code: G 127.
FURNITURE:	Door set 1 (4 Doors)	Door set 2
NOTES:	• Contractor to check no's required against drawings and schedules. • Any discrepancies to be brought to the Architects attention immediately.	

DOOR SET 1:
Union 4 Lever Commercial Series Mortice lock 2247-7855 with CP on brass Gower Lever handles CB862-05Ch & CZ8731CH door stop fixed with counter-sunk bolt into anchor bolt.

DOOR SET 2:
SOLID ART 294 WC anodised aluminium mortice indicator bolt.
38mm diameter door stop plugged and screwed to wall with a 50mm long brass screw.

STANDARD DOOR FRAME:
1.2mm Hot dipped galvanised pressed metal double rebated frame to suit wall thickness with straps for building in.
2 x 100mm Galvanised & welded loose - butt hinges, adjustable chrome striking plate & 2 rubber buffers. Frame to be well rammed with mortar mix to protect from denting when bumped

NB: ALL IRONMONGERY TO BE SABS APPROVED.

DS 1:50 DOOR SCHEDULE

KZN Department of Public Works Stamp and Signature

Signature: Date:

Consultant:

REALISING CONTINENTAL POTENTIAL

Signature: Date:

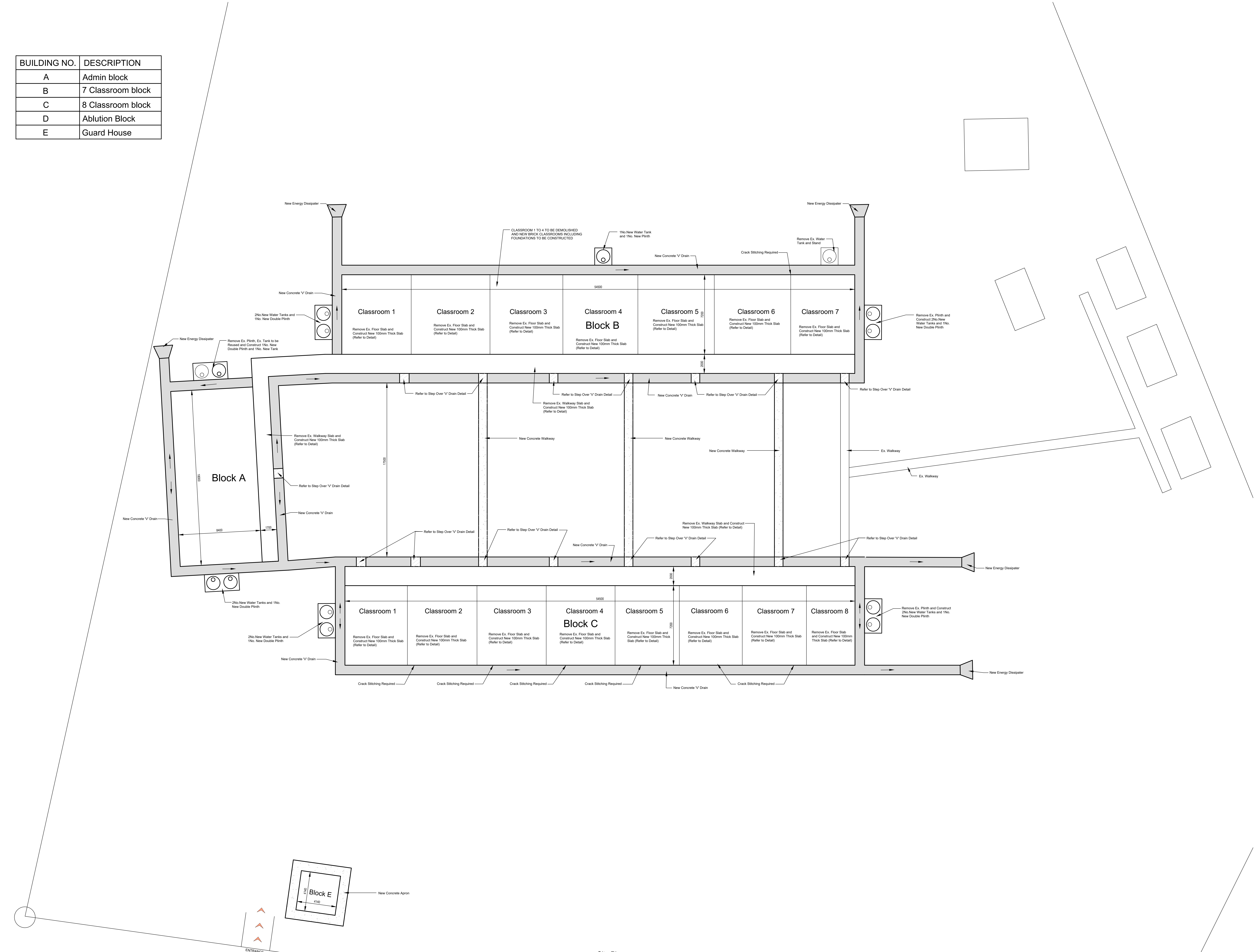
public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:
Construction Plans for Dalala Primary School - Part Block B

Drawn: T. Mkhize / M. Khan Date: 2022/11/05
Checked By: T. Mkhize Date: 2022/11/05
Scales: 1:100
Consultant Drawing No: 1392-18 WD06 Revision: .
DOPW CONTRACT No: ZNTL04781W Revision: .
DOPW WIMS No: WIMS : 063803
Stamped by Design Review Committee

BUILDING NO.	DESCRIPTION
A	Admin block
B	7 Classroom block
C	8 Classroom block
D	Ablution Block
E	Guard House



Site Plan
Scale 1:125

GENERAL

1. ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 2001-CC1VAND THE PROJECT SPECIFICATIONS IN THE CONTRACT DOCUMENTATION.
2. THE CONTRACTOR SHALL ENSURE THAT WATERPROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL.
   REPLACING OF MATERIAL DUE TO DAMAGE FOR CONTRACTOR'S COST.

FOUNDATIONS AND EARTHWORKS

1. ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH SANS 1200 D INCLUDING THE LATEST REVISIONS.
2. ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING OF ANY CONCRETE FOUNDATION, BLINDING ,WATERPROOFING OR GEOFABRIC MEMBRANE.
3. 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 / 19mm) AT THE CONTRACTOR'S EXPENSE.

BRICKWORK & BLOCKWORK:

1. ALL BRICKWORK, BLOCKWORK, ANCHORS, WALL TIES AND STRAPS SHALL BE IN ACCORDANCE WITH SANS 0400 – 1990 AND SANS 0164 – 1980 INCLUDING THE LATEST REVISIONS.
2. THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.
3. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SANS 0164 PART I - 1980.
4. LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
5. 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)
6. ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIP GALVANIZED.
7. V-JOINTS ARE TO BE MADE THROUGH PLASTERWORK WHERE BRICKWORK / BLOCKWORK AND CONCRETE JOIN.

CONCRETE:

1. CONCRETE GRADES:

REINFORCED CONCRETE	=	30 MPa/19mm
SURFACE BEDS	=	30 MPa/19mm
MASS CONCRETE	=	20 MPa/19mm
BLINDING	=	15 MPa/19mm

2. 20 X 20 CHAMFER TO BE PROVIDED ON ALL EXPOSED EDGES
3. COVER TO REINFORCEMENT:

ROOF & FLOOR SLABS	=	25mm
FOUNDATION BASES	=	50mm

4. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-CC1.
5. CONCRETE TOLERANCE IN GENERAL SHALL BE OF DEGREE OF ACCURACY NO. II AS SPECIFIED IN SANS 2001-CC1.
6. ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.
7. 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
8. 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.
9. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 2001-CC1.
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.
11. STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 2001-CC1.
12. CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE INCLUDING SCREED MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING OF ANY CONCRETE.
13. 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:

1. PROVIDE 12mm ISOLATION JOINTS (I.J.) AROUND ALL CONCRETE COLUMNS AND AGAINST BRICK WALLS. AFTER CONCRETE HAS SET, JOINTEX TO BE RAKED OUT 10mm DEEP AND SEALED WITH APPROVED JOINT SEALANT – REFER TO STANDARD DETAILS.
2. SAW-CUT JOINTS TO BE DONE AS SOON AS CONCRETE IS FIRM ENOUGH TO NOT DAMAGE THE EDGES. USUALLY BETWEEN 6 TO 16 HOURS.
3. ALL BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm. COMPACTION EFFORT : AS INDICATED
4. FLOOR SLABS ARE WOOD FLOAT FINISHED AND SCREED TOPPING TO HAVE A STEEL TROWEL FINISH

REINFORCEMENT:

1. ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 920-2011.
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.
3. THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS NOTICE TO THE ENGINEER FOR REBAR INSPECTIONS THAT ARE REQUIRED.
4. BEND-OUT BARS AT CONSTRUCTION JOINTS SHALL BE BENT OUT WITH A SUITABLE PIPE SO THAT NO KINK IS FORMED IN THE BARS.
5. 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:
REALISING CONTINENTAL POTENTIAL

Signature: Date:

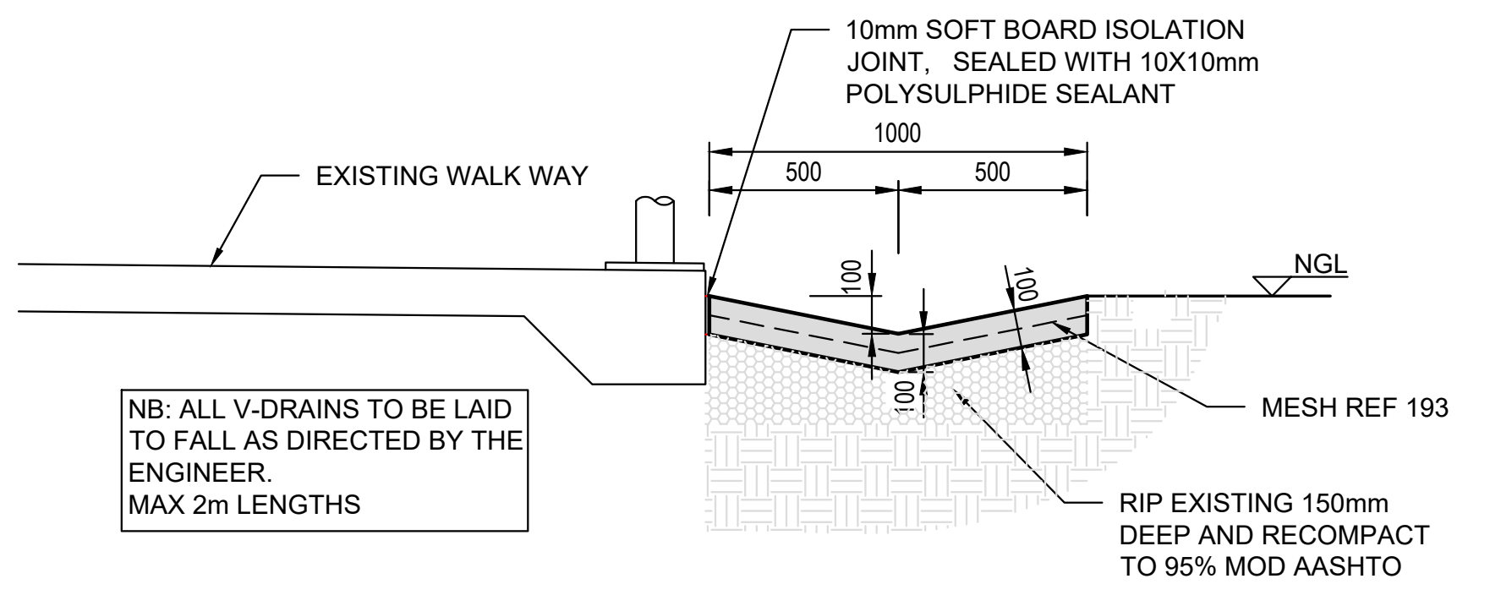
public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:
Illustration site Plan of Engineering Works for Dalala Primary

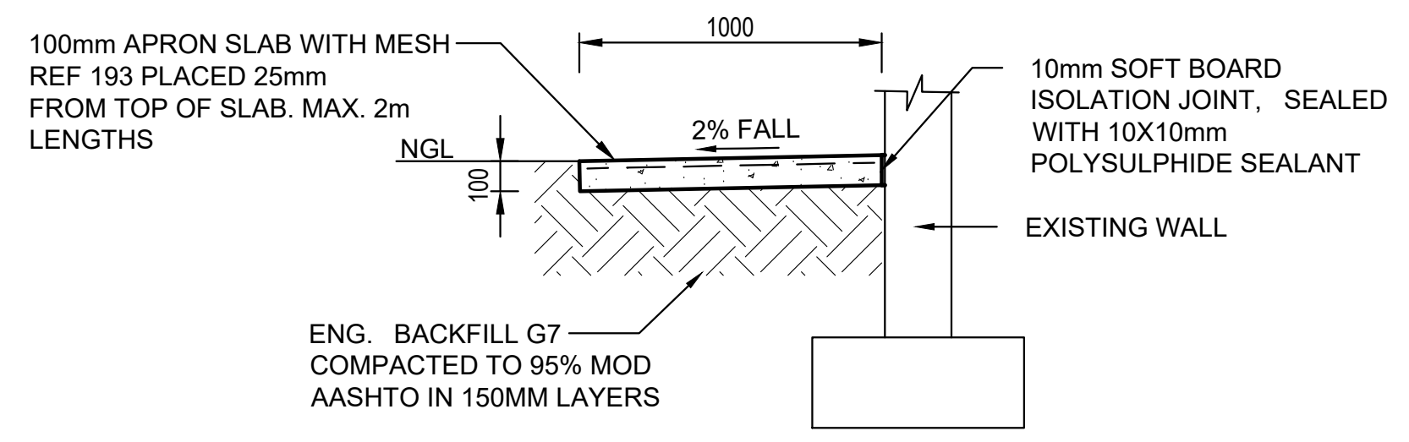
Drawn: K. Chetty Date: 2020/05/11
Scales: As Shown

Consultant Drawing No: V16-0539-036
Revision: 0
DOPW CONTRACT No: ZNTL04781W
DOPW WIMS No: WIMS : 063803
Stamped by Design Review Committee



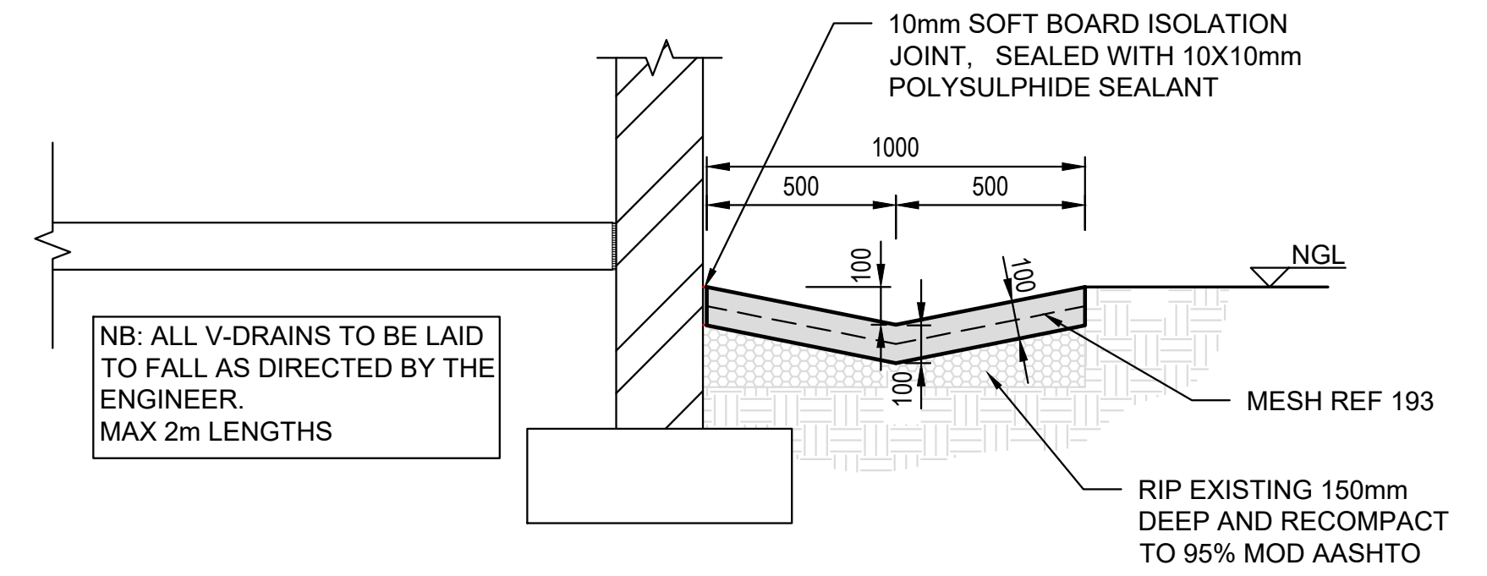
TYPICAL SECTION OF 'V' - DRAIN NEXT TO EXISTING WALK WAY

SCALE 1:20



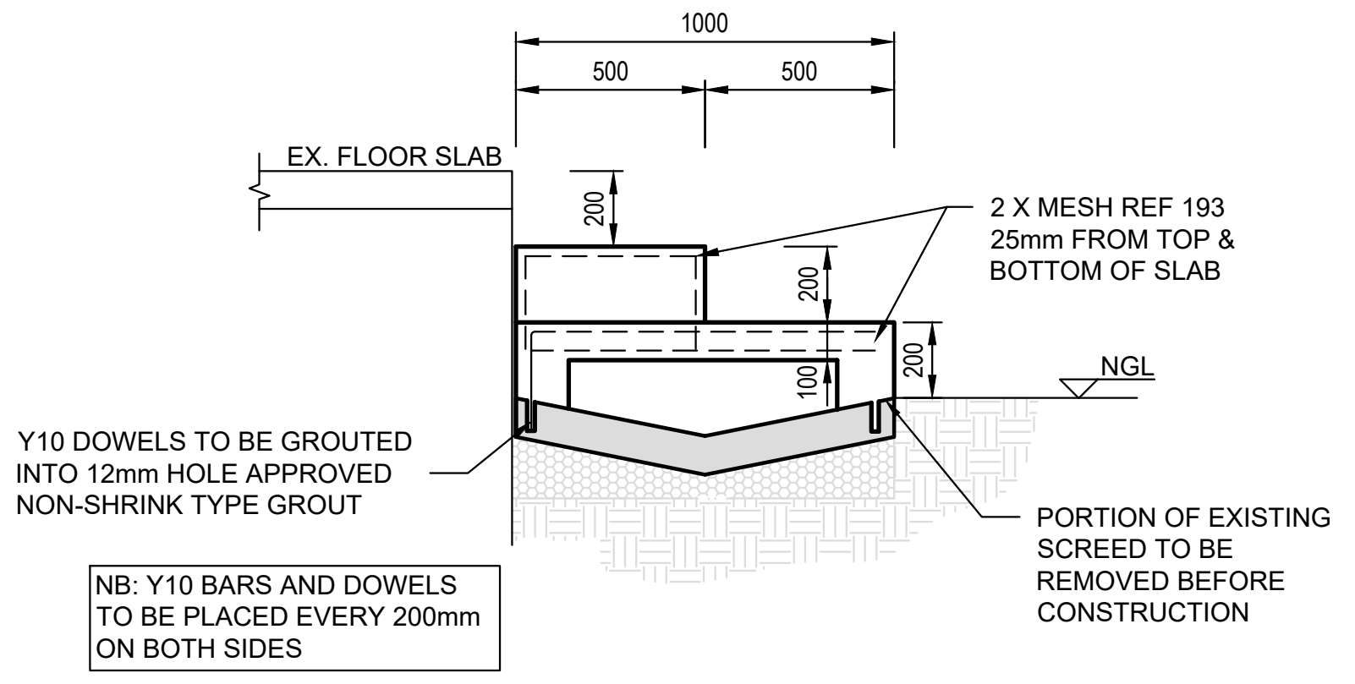
APRON SLAB DETAIL

SCALE 1:25



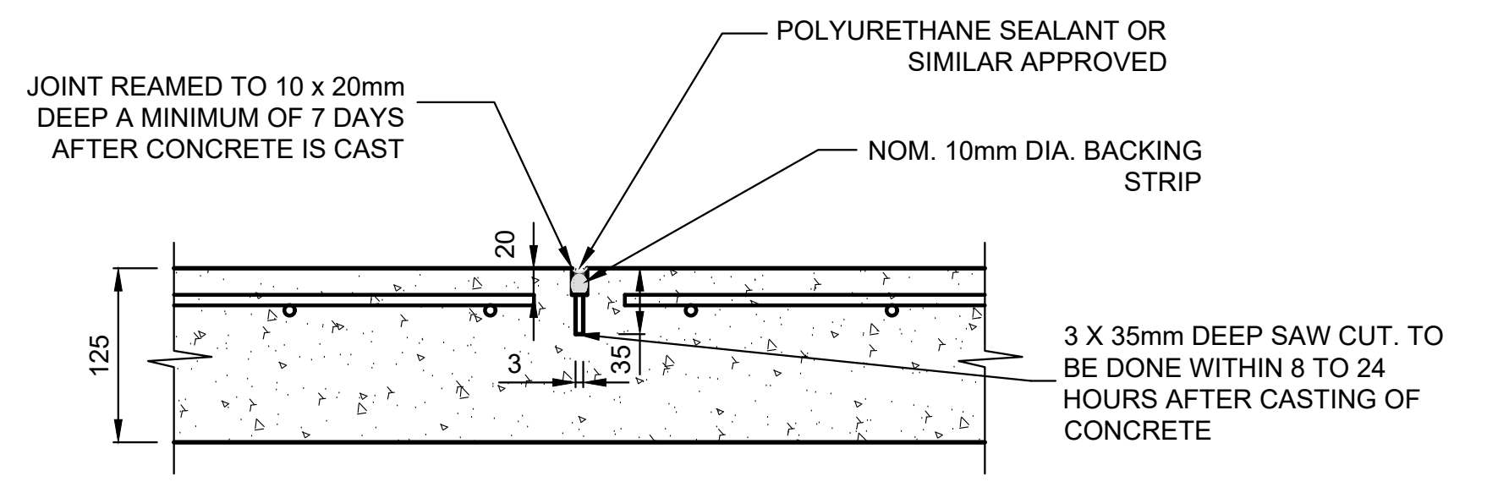
TYPICAL DETAIL OF 'V'-DRAIN NEXT TO EXISTING BUILDING

SCALE 1:20



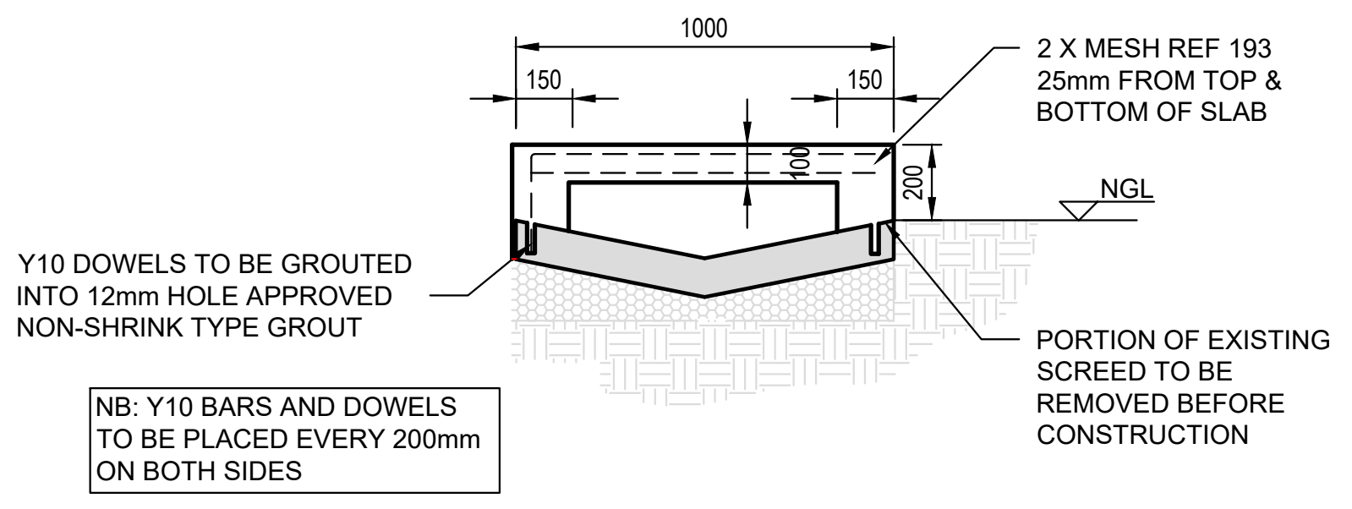
DETAIL 2 OF STEP OVER V DRAIN

SCALE 1:20



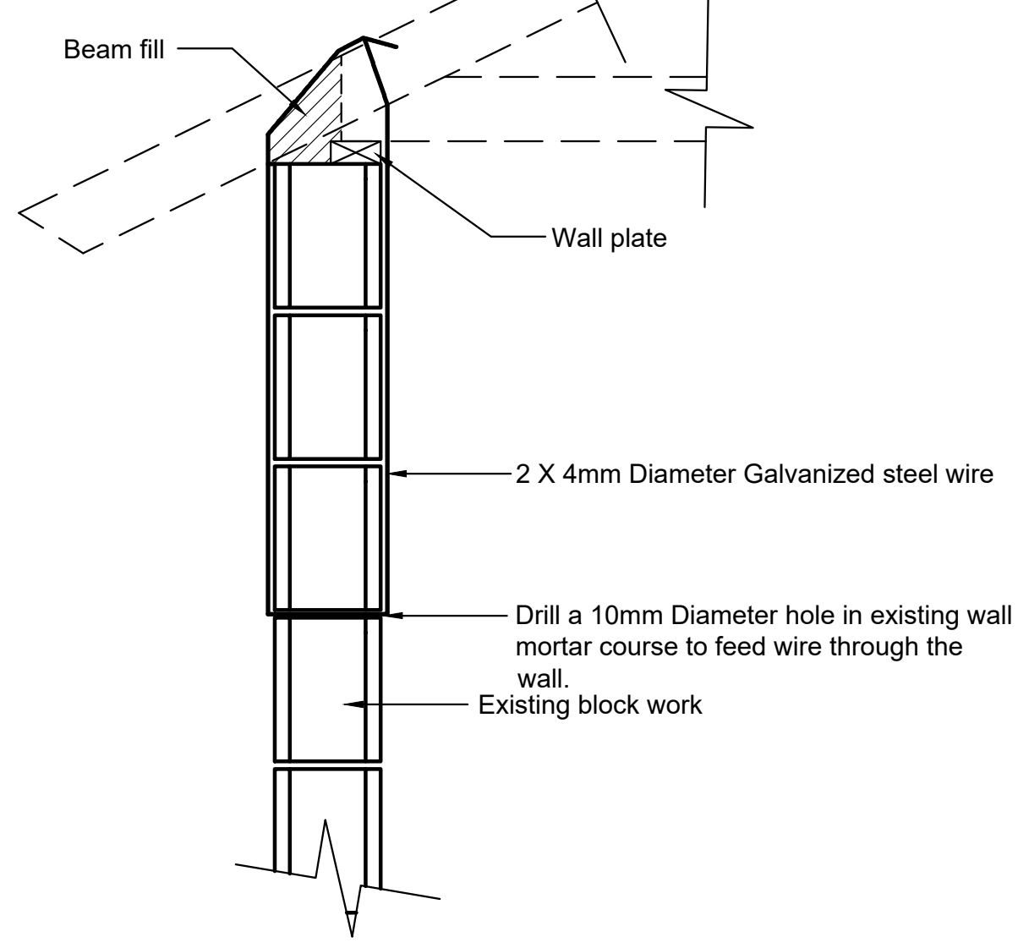
TYPICAL SAW-CUT JOINT (S.J)

SCALE 1:10



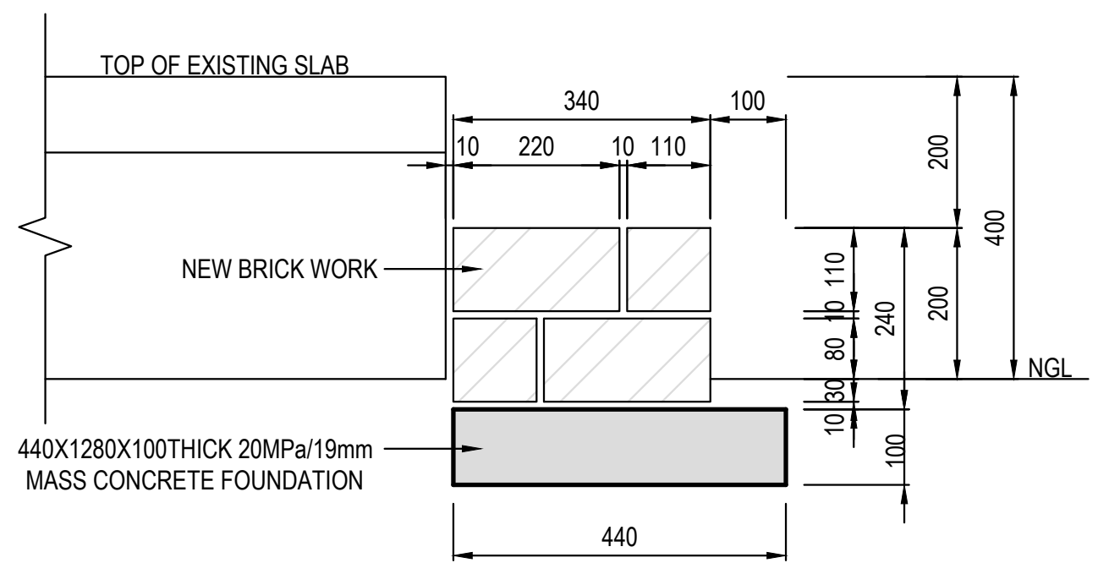
DETAIL OF STEP OVER V DRAIN

SCALE 1:20



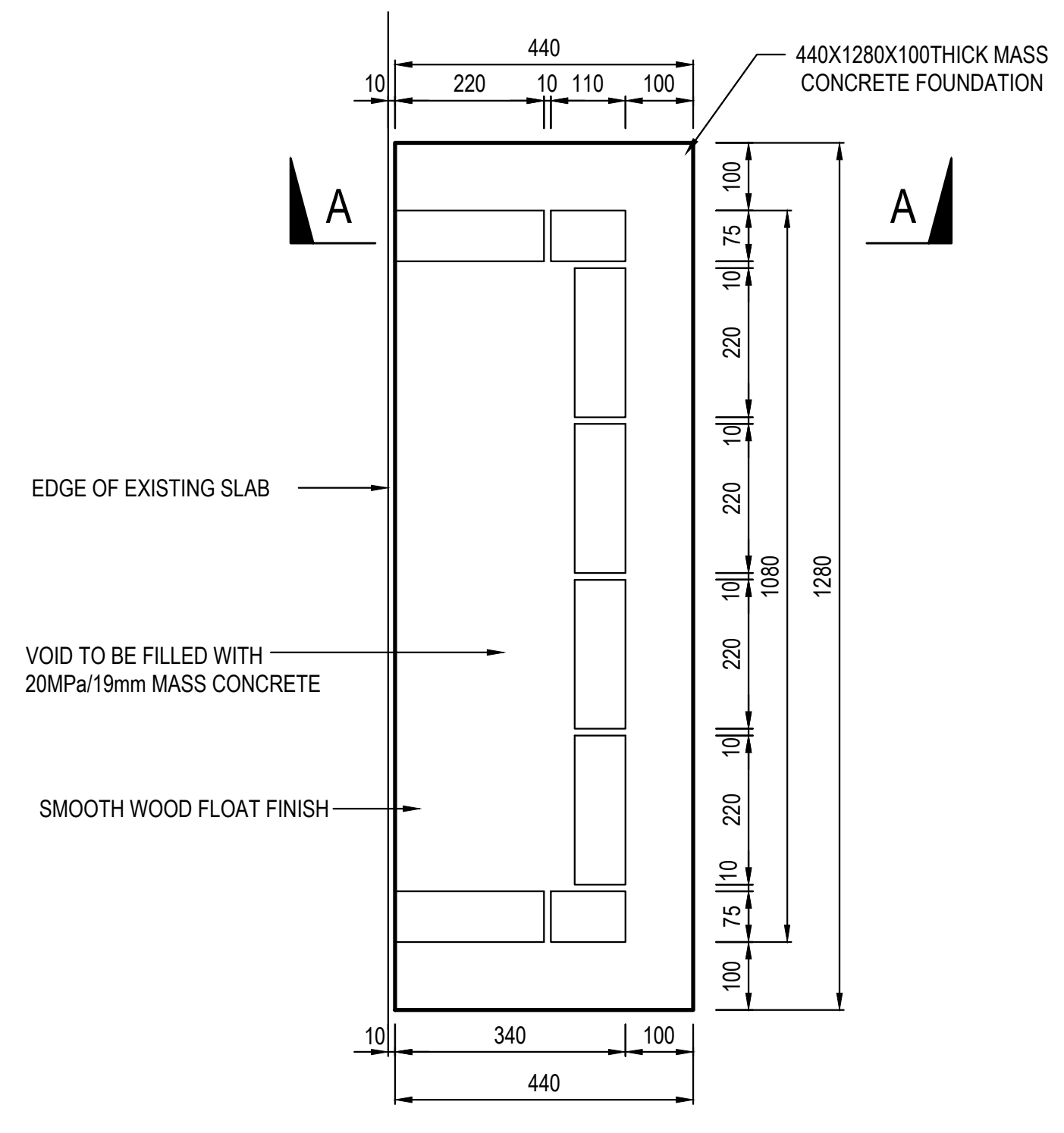
ROOF TRUSS ANCHOR DETAIL WIRE DETAIL

SCALE 1:10



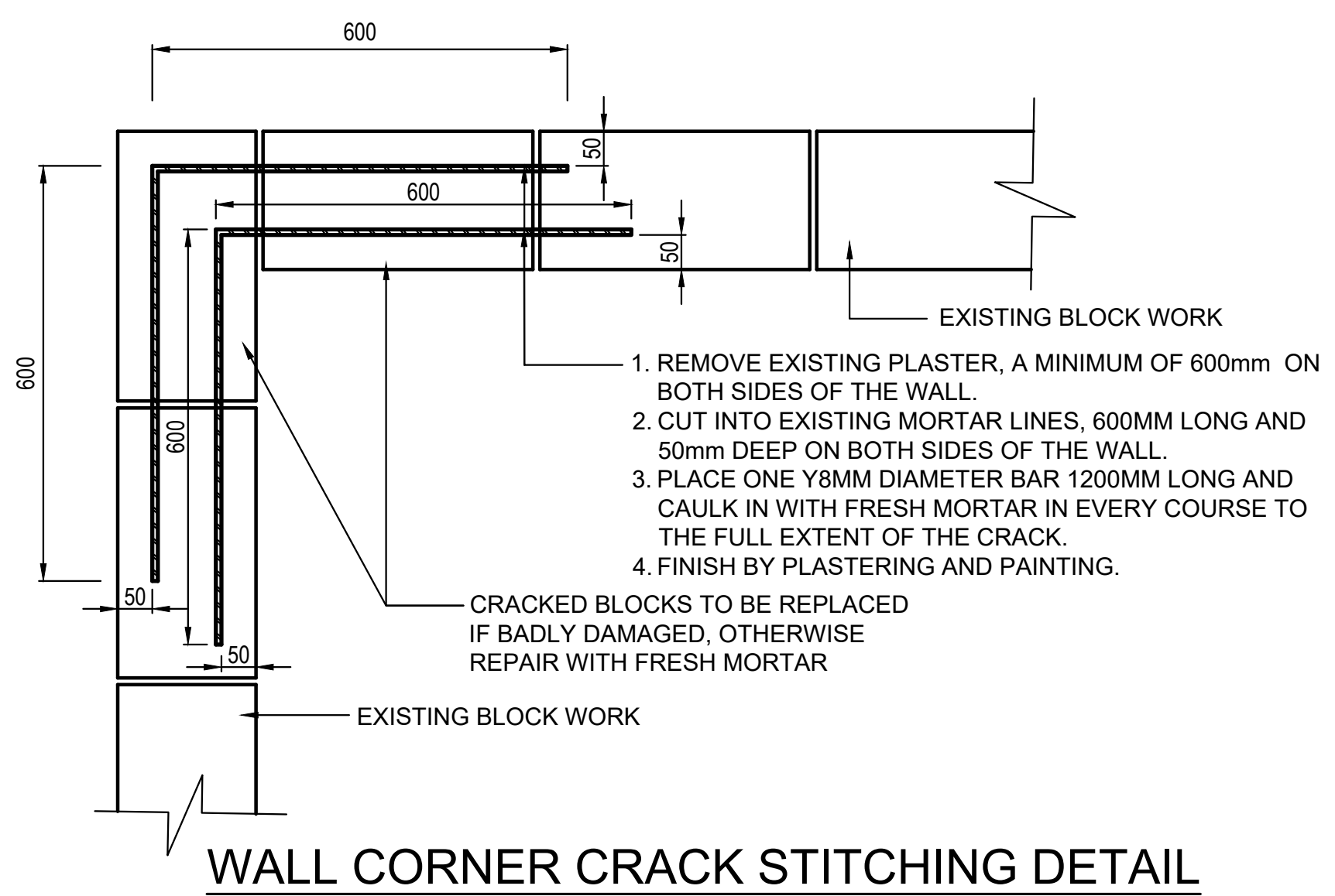
SECTION A-A

SCALE 1:10



PLAN - TYPICAL STAIR DETAIL

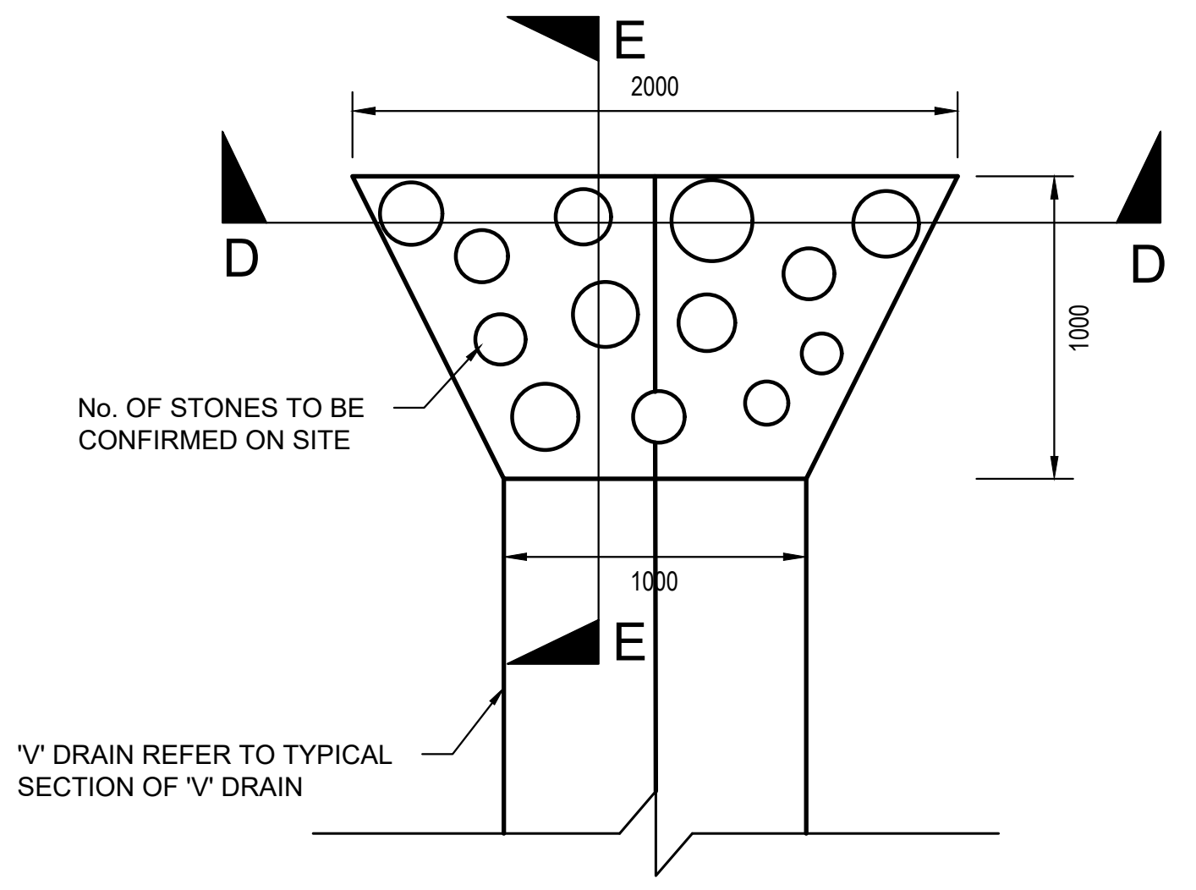
SCALE 1:10



1. REMOVE EXISTING PLASTER, A MINIMUM OF 600mm ON BOTH SIDES OF THE WALL.
2. CUT INTO EXISTING MORTAR LINES, 600MM LONG AND 50mm DEEP ON BOTH SIDES OF THE WALL.
3. PLACE ONE Y8MM DIAMETER BAR 1200MM LONG AND CAULK IN WITH FRESH MORTAR IN EVERY COURSE TO THE FULL EXTENT OF THE CRACK.
4. FINISH BY PLASTERING AND PAINTING.

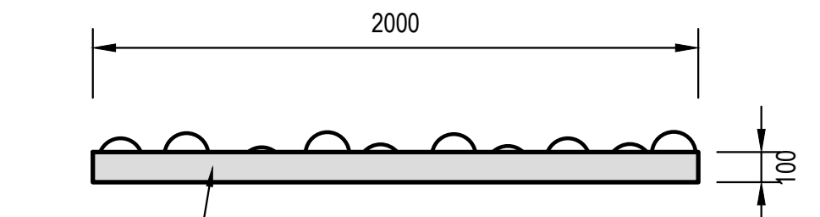
WALL CORNER CRACK STITCHING DETAIL

SCALE 1:10



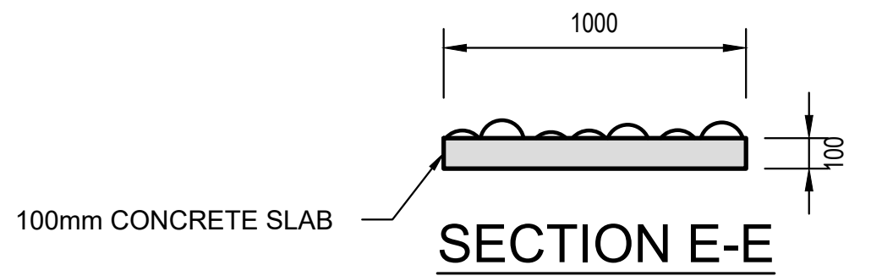
ENERGY DISSIPATOR DETAIL

SCALE 1:25



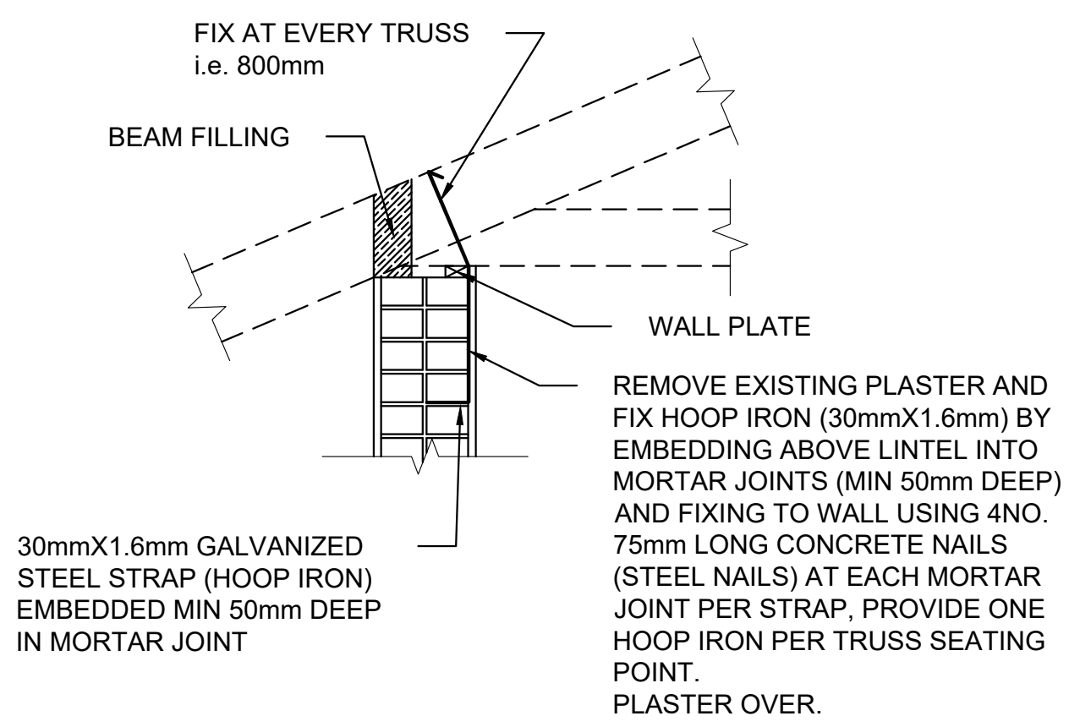
SECTION D-D

SCALE 1:25



SECTION E-E

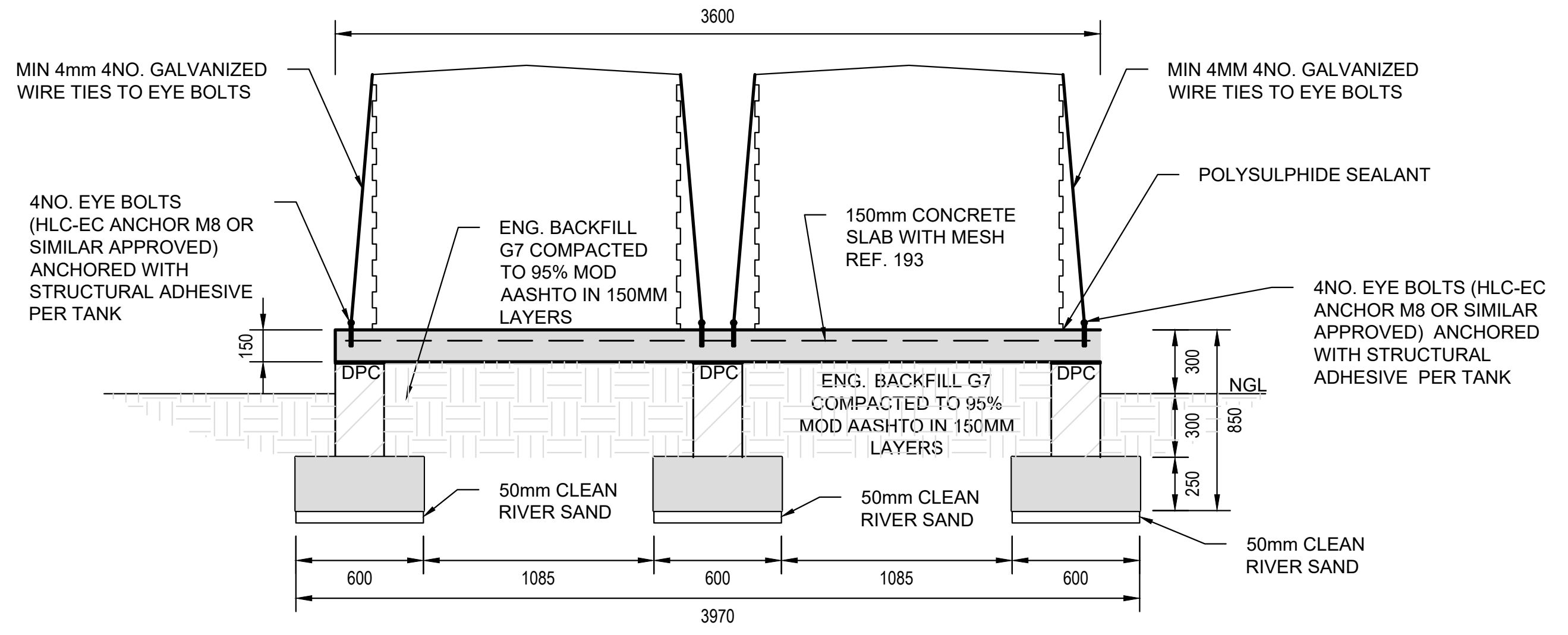
SCALE 1:25



REMOVE EXISTING PLASTER AND FIX HOOP IRON (30mmX1.6mm) BY EMBEDDING ABOVE LINTEL INTO MORTAR JOINTS (MIN 50mm DEEP) AND FIXING TO WALL USING 4NO. 75mm LONG CONCRETE NAILS (STEEL NAILS) AT EACH MORTAR JOINT PER STRAP, PROVIDE ONE HOOP IRON PER TRUSS SEATING POINT.
PLASTER OVER.

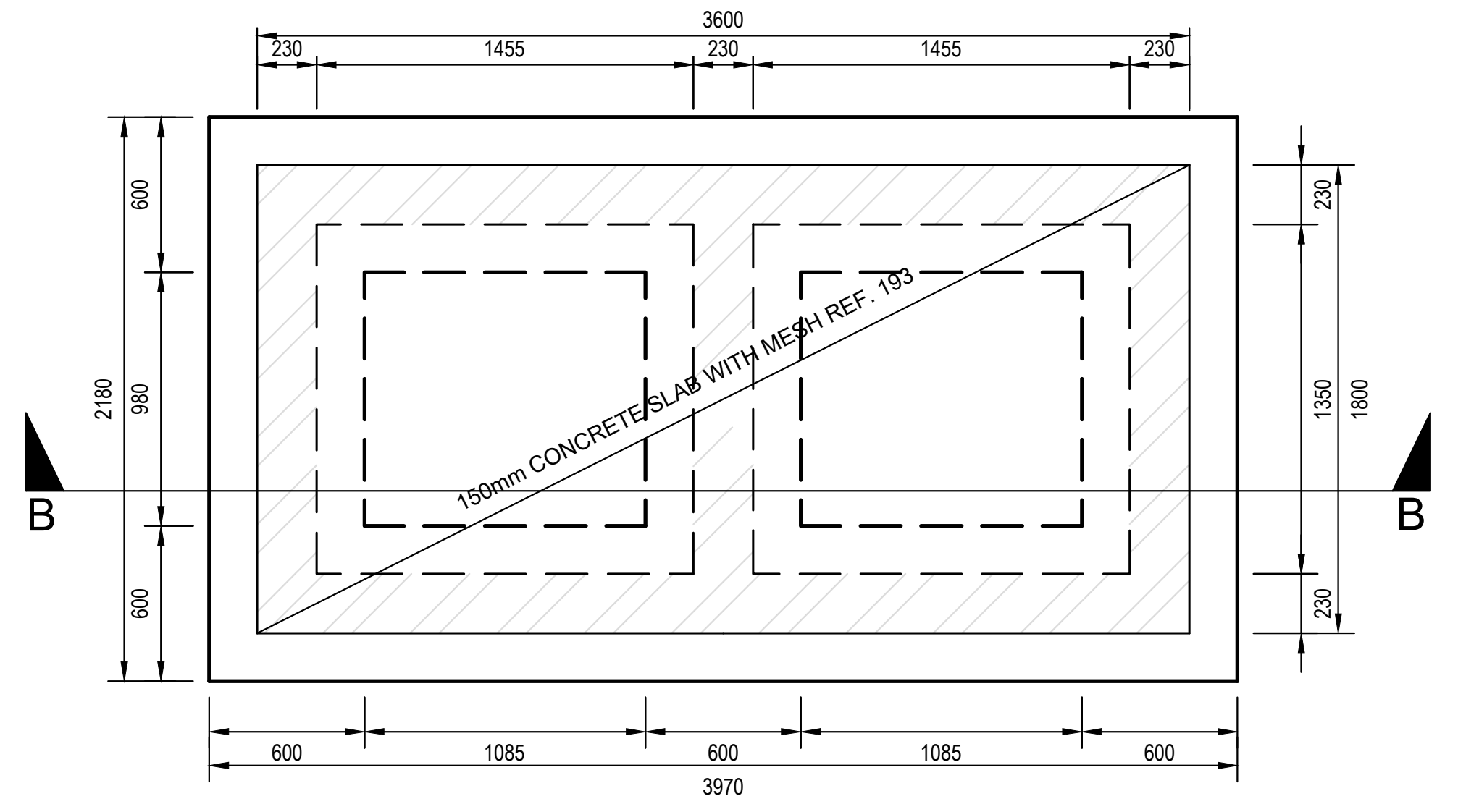
TYPICAL DETAIL OF ROOF CONNECTION TO EXISTING BUILDING - STRAP TYPE

SCALE 1:20



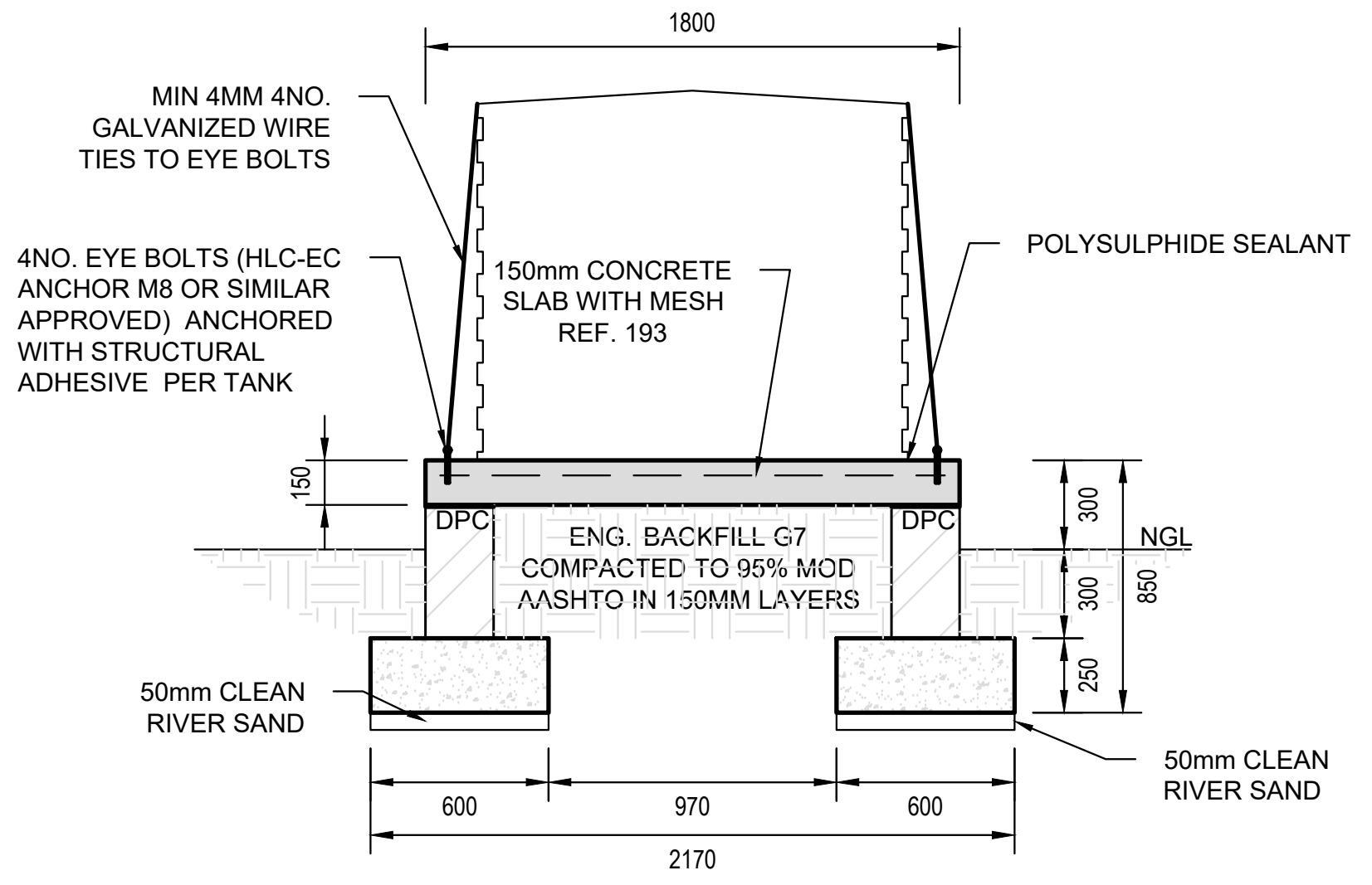
SECTION B-B

SCALE 1:25



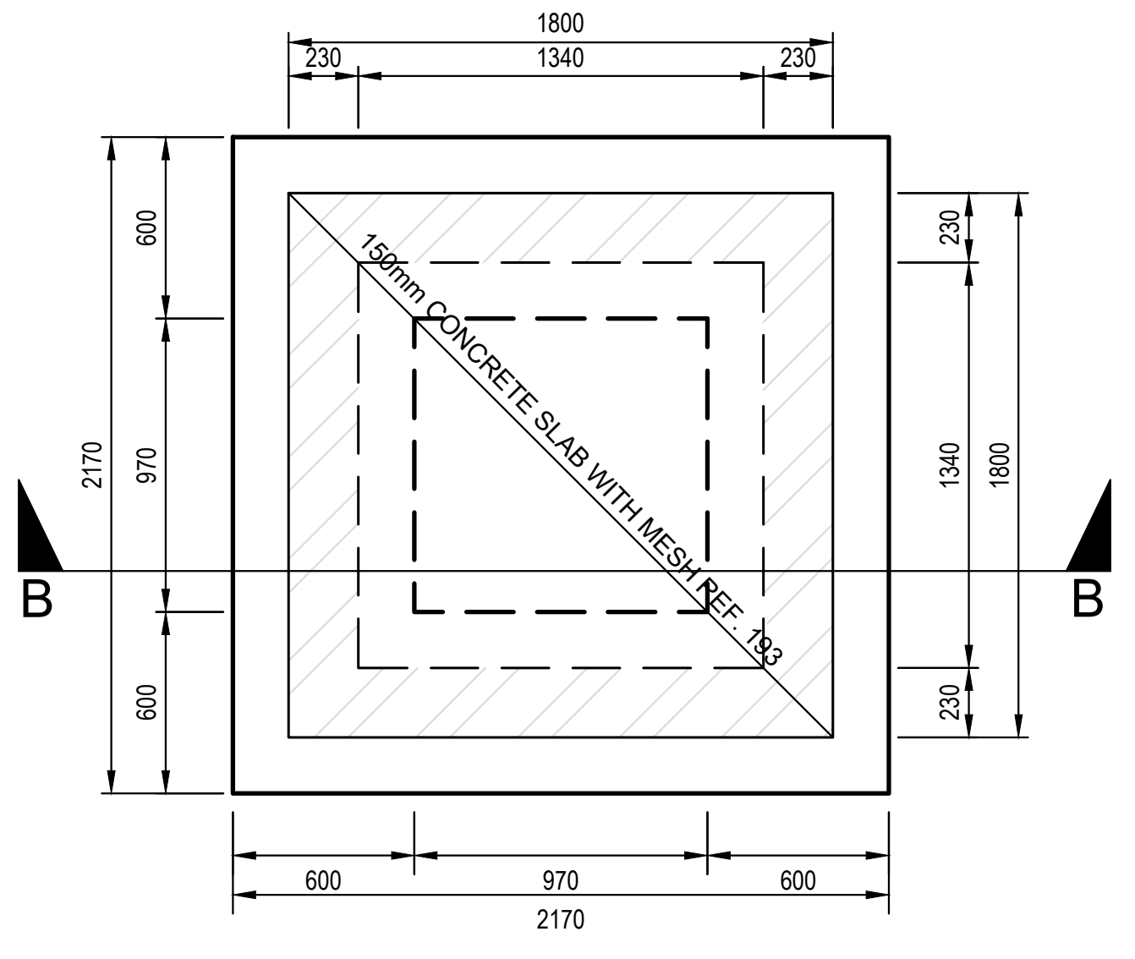
WATER TANK SLAB DETAIL (DOUBLE)

SCALE 1:25



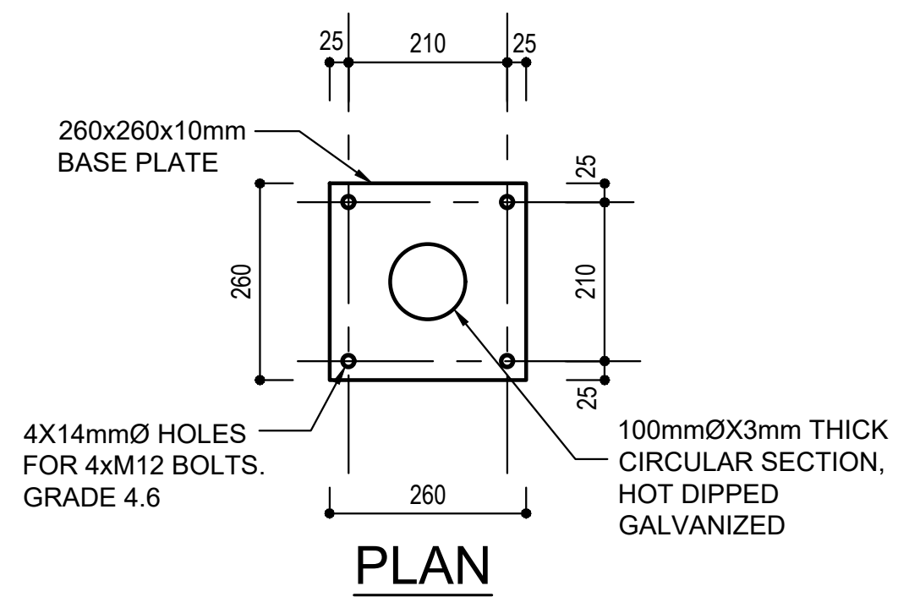
SECTION B-B

SCALE 1:25



WATER TANK SLAB DETAIL (SINGLE)

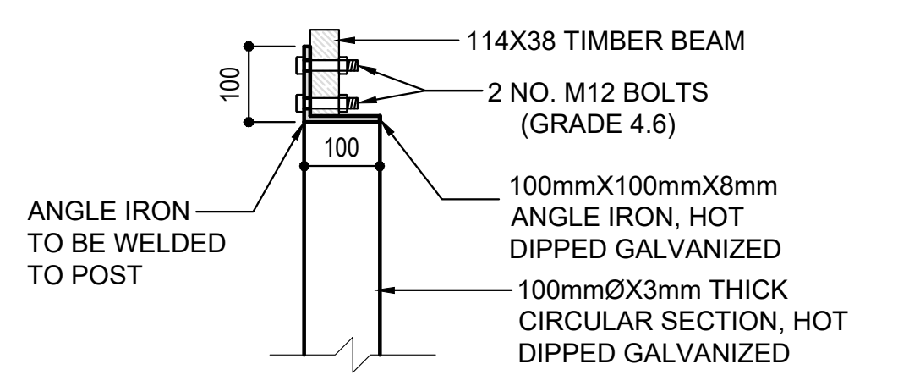
SCALE 1:25



PLAN

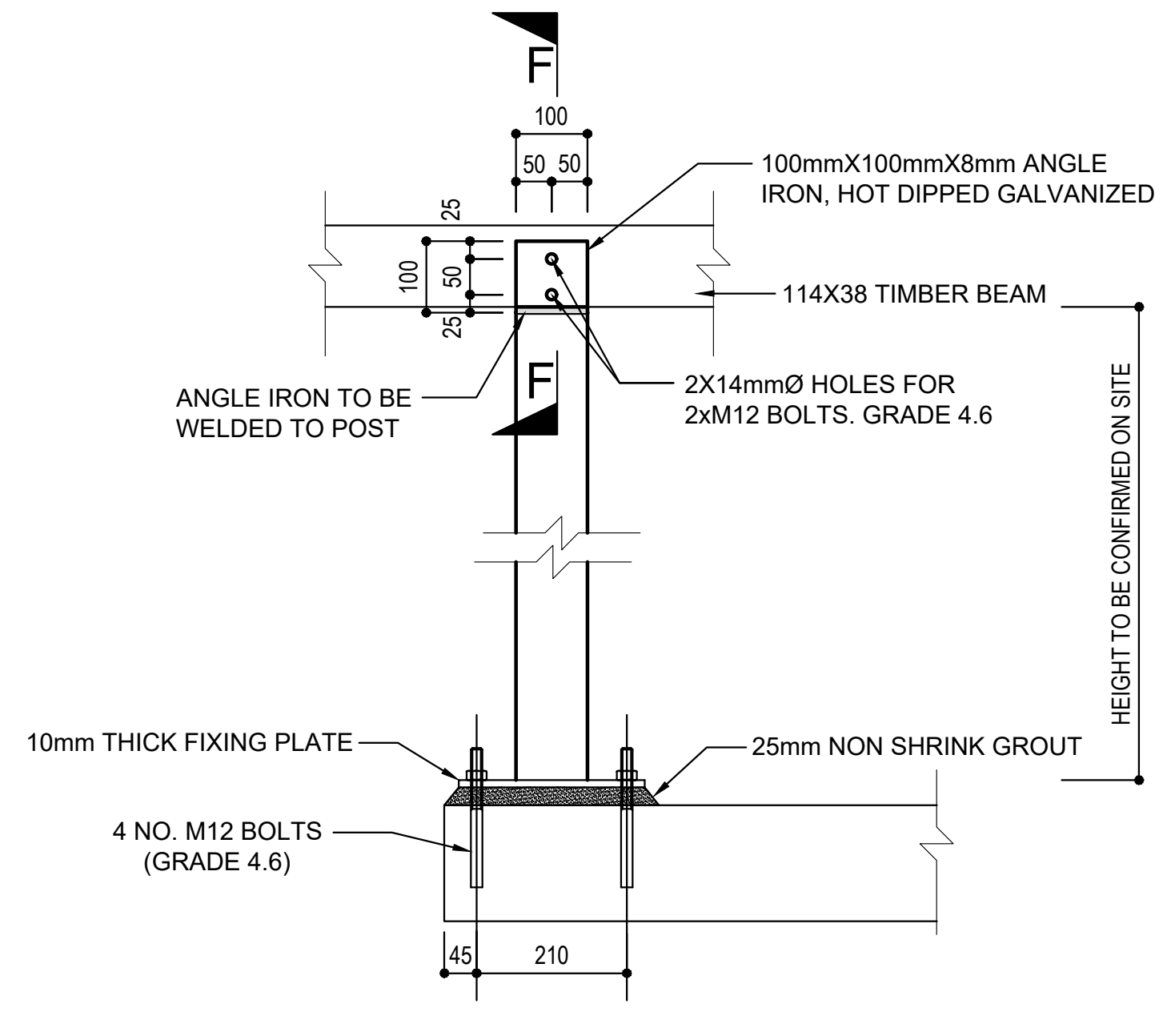
100mmØ POST FIXING DETAIL

SCALE 1:10



SECTION F-F

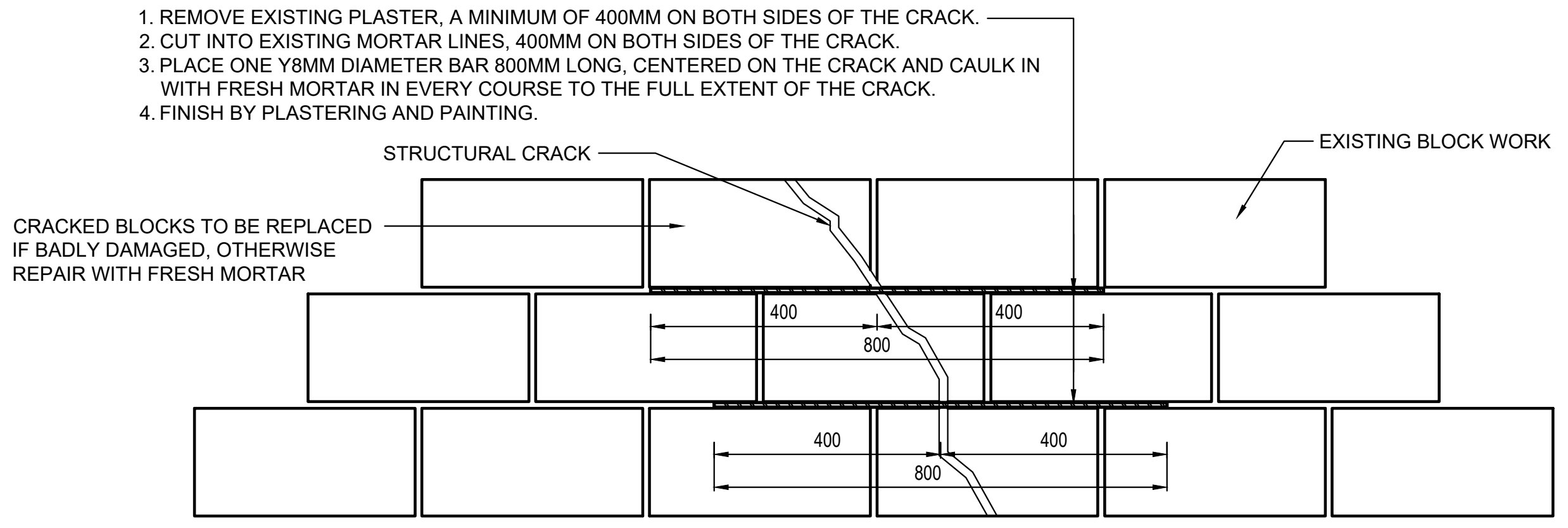
SCALE 1 : 10



100mmØX3mm THICK POST FIXING DETAIL

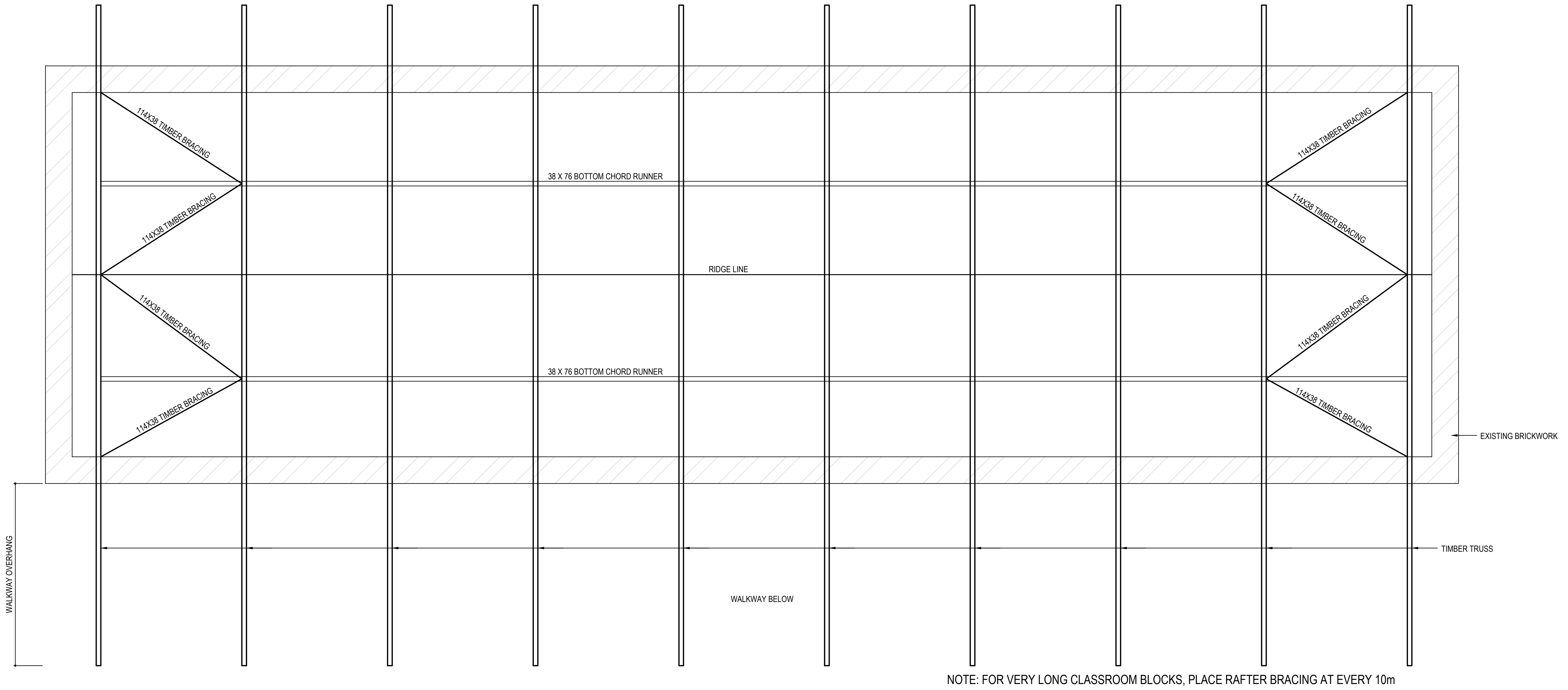
SCALE 1 : 10

1. REMOVE EXISTING PLASTER, A MINIMUM OF 400MM ON BOTH SIDES OF THE CRACK.
2. CUT INTO EXISTING MORTAR LINES, 400MM ON BOTH SIDES OF THE CRACK.
3. PLACE ONE Y8MM DIAMETER BAR 800MM LONG, CENTERED ON THE CRACK AND CAULK IN WITH FRESH MORTAR IN EVERY COURSE TO THE FULL EXTENT OF THE CRACK.
4. FINISH BY PLASTERING AND PAINTING.



WALL CRACK STITCHING DETAIL

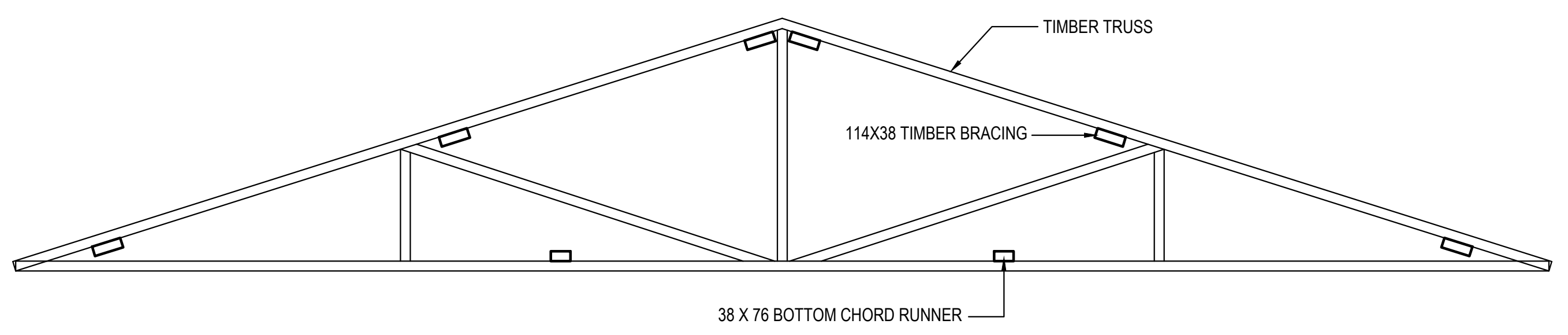
SCALE 1:10



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

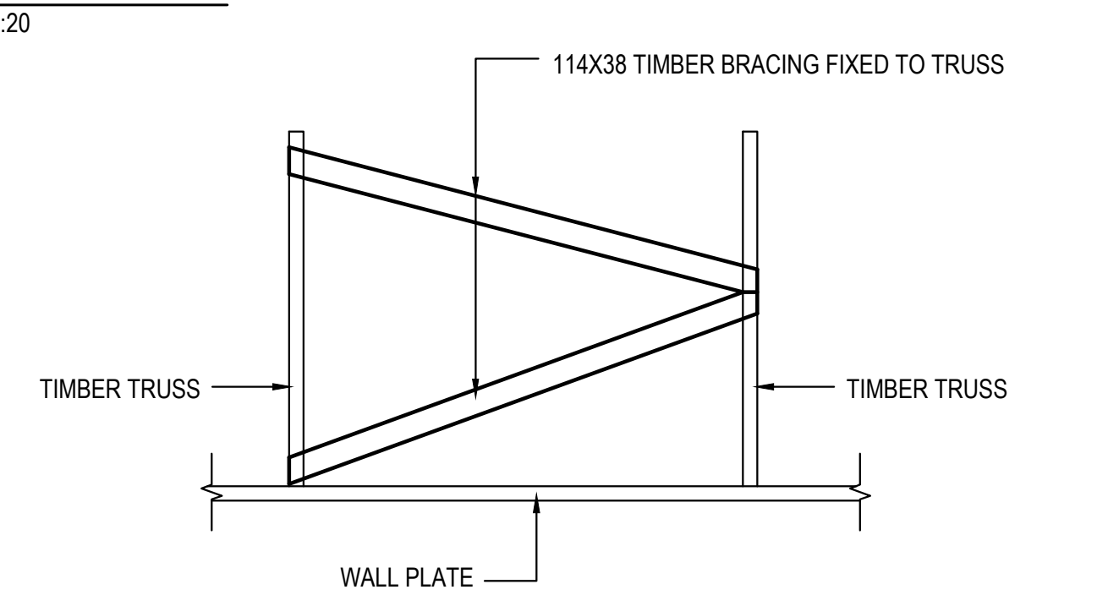
TYPICAL BRACING PLAN

SCALE 1:20



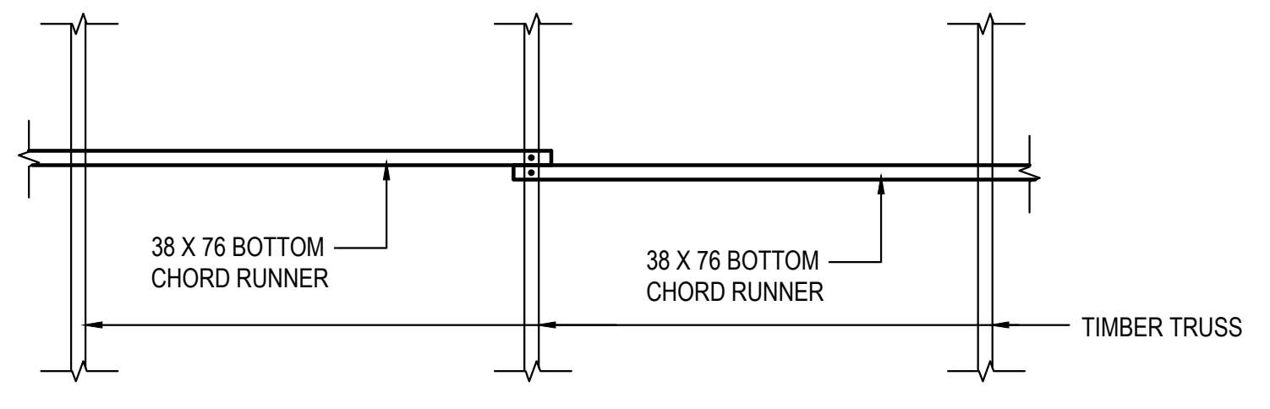
TYPICAL FIXING POINTS FOR RAFTER BRACING AND LONGITUDINAL TIES DETAIL

SCALE 1:20



RAFTER BRACING DETAIL

SCALE 1:20



LONGITUDINAL TIE DETAIL

SCALE 1:20

GENERAL

1. ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 2001-CC1VAND THE PROJECT SPECIFICATIONS IN THE CONTRACT DOCUMENTATION.
2. THE CONTRACTOR SHALL ENSURE THAT WATERPROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL.
   REPLACING OF MATERIAL DUE TO DAMAGE FOR CONTRACTOR'S COST.

FOUNDATIONS AND EARTHWORKS

1. ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH SANS 1200 D INCLUDING THE LATEST REVISIONS.
2. ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING OF ANY CONCRETE FOUNDATION, BLINDING ,WATERPROOFING OR GEOFABRIC MEMBRANE.
3. 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 / 19mm) AT THE CONTRACTOR'S EXPENSE.

BRICKWORK & BLOCKWORK:

1. ALL BRICKWORK, BLOCKWORK, ANCHORS, WALL TIES AND STRAPS SHALL BE IN ACCORDANCE WITH SANS 0400 – 1990 AND SANS 0164 – 1980 INCLUDING THE LATEST REVISIONS.
2. THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.
3. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SANS 0164 PART I - 1980.
4. LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
5. 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)
6. ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIP GALVANIZED.
7. V-JOINTS ARE TO BE MADE THROUGH PLASTERWORK WHERE BRICKWORK / BLOCKWORK AND CONCRETE JOIN.

CONCRETE:

1. CONCRETE GRADES:

REINFORCED CONCRETE	=	30 MPa/19mm
MASS CONCRETE	=	20 MPa/19mm
BLINDING	=	15 MPa/19mm
SURFACE BEDS	=	30 MPa/19mm

2. 20 X 20 CHAMFER TO BE PROVIDED ON ALL EXPOSED EDGES
3. COVER TO REINFORCEMENT:

ROOF & FLOOR SLABS	=	25mm
FOUNDATION BASES	=	50mm

4. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-CC1.
5. CONCRETE TOLERANCE IN GENERAL SHALL BE OF DEGREE OF ACCURACY NO. II AS SPECIFIED IN SANS 2001-CC1.
6. ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.
7. 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
8. 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.
9. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 2001-CC1.
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.
11. STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 2001-CC1.
12. CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE INCLUDING SCREED MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING OF ANY CONCRETE.
13. 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:

1. PROVIDE 12mm ISOLATION JOINTS (I.J.) AROUND ALL CONCRETE COLUMNS AND AGAINST BRICK WALLS. AFTER CONCRETE HAS SET, JOINTEX TO BE RAKED OUT 10mm DEEP AND SEALED WITH APPROVED JOINT SEALANT – REFER TO STANDARD DETAILS.
2. SAW-CUT JOINTS TO BE DONE AS SOON AS CONCRETE IS FIRM ENOUGH TO NOT DAMAGE THE EDGES. USUALLY BETWEEN 6 TO 16 HOURS.
3. ALL BACKFILL TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm. COMPACTION EFFORT : AS INDICATED
4. FLOOR SLABS ARE WOOD FLOAT FINISHED AND SCREED TOPPING TO HAVE A STEEL TROWEL FINISH

REINFORCEMENT:

1. ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 920-2011.
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.
3. THE CONTRACTOR SHALL GIVE AT LEAST 24 HOURS NOTICE TO THE ENGINEER FOR REBAR INSPECTIONS THAT ARE REQUIRED.
4. BEND-OUT BARS AT CONSTRUCTION JOINTS SHALL BE BENT OUT WITH A SUITABLE PIPE SO THAT NO KINK IS FORMED IN THE BARS.
5. 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:

REALISING CONTINENTAL POTENTIAL

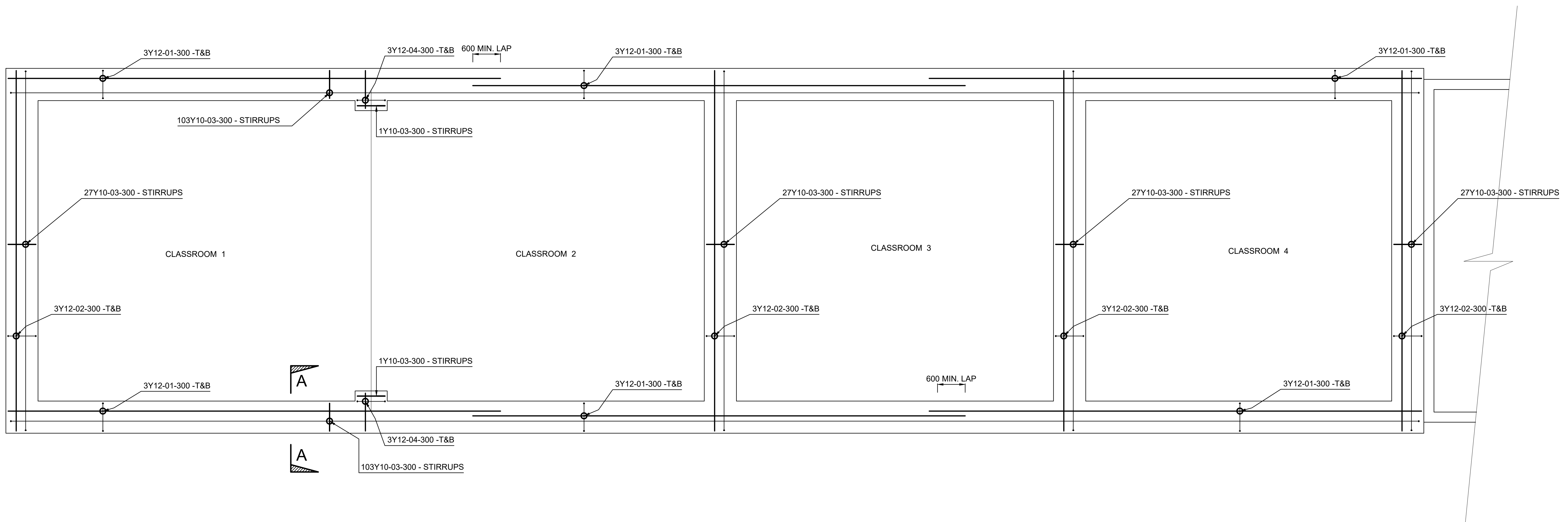
Signature: Date:

public works
Department:
Public Works
PROVINCE OF KWAZULU-NATAL

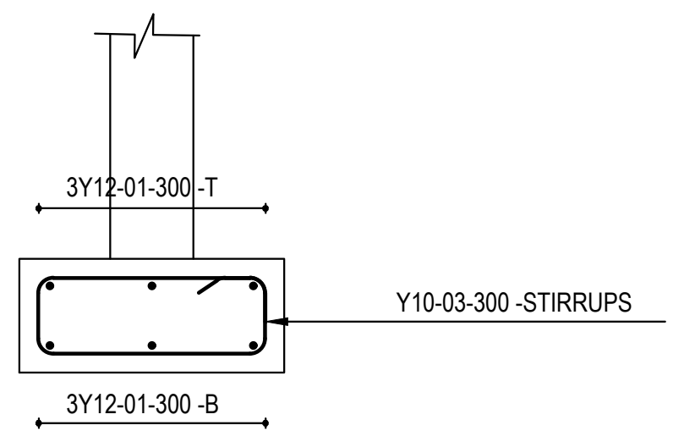
Project Title:
PHASE 14: REPAIRS AND RENOVATIONS TO STORM DAMAGED SCHOOLS - KZN MIDLANDS REGION - CLUSTER 133 - DALALA PRIMARY

Drawing Description:
TYPICAL ENGINEERING DETAILS

Drawn: K. Chetty Date: 2020/02/17
Scales: As Shown
Consultant Drawing No: V16-0539-036a
Revision: 0
DOPW CONTRACT No: ZNTL04781W
DOPW WIMS No: WIMS : 063803
Stamped by Design Review Committee



FOUNDATION REINFORCING PLAN - BLOCK B



REINFORCING SECTION A - A

Member	Num of	Bars per Memb	Type Dia	Tot Nr	Bar Mark	Cut Length	SC	A [mm]	B [mm]	C [mm]	D [mm]	E/r [mm]
FOUNDATION REINFORCING	1	36	Y12	36	01	10700	20	10700				
		24	Y12	24	02	7830	20	7830				
		316	Y10	316	03	1800	60	200	600			
		12	Y12	12	04	820	20	820				

	6	8	10	12	16	20	25	32	40	TOT
R										
Y			351	518						869
TOT			351	518						869

Date	22/02/2023
Det. by	K.D.C
Revision	0
Schedule No	01

GENERAL

1. ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 2001-CC1VAND THE PROJECT SPECIFICATIONS IN THE CONTRACT DOCUMENTATION.
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7. V-JOINTS ARE TO BE MADE THROUGH PLASTERWORK WHERE BRICKWORK / BLOCKWORK AND CONCRETE JOIN.

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   MASS CONCRETE = 20 MPa/19mm
   BLINDING = 15 MPa/19mm
   SURFACE BEDS = 30 MPa/19mm
2. 20 X 20 CHAMFER TO BE PROVIDED ON ALL EXPOSED EDGES
3. COVER TO REINFORCEMENT:

   ROOF & FLOOR SLABS = 25mm
   FOUNDATION BASES = 50mm
4. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 2001-CC1.
5. CONCRETE TOLERANCE IN GENERAL SHALL BE OF DEGREE OF ACCURACY NO. II AS SPECIFIED IN SANS 2001-CC1.
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4. FLOOR SLABS ARE WOOD FLOAT FINISHED AND SCREED TOPPING TO HAVE A STEEL TROWEL FINISH

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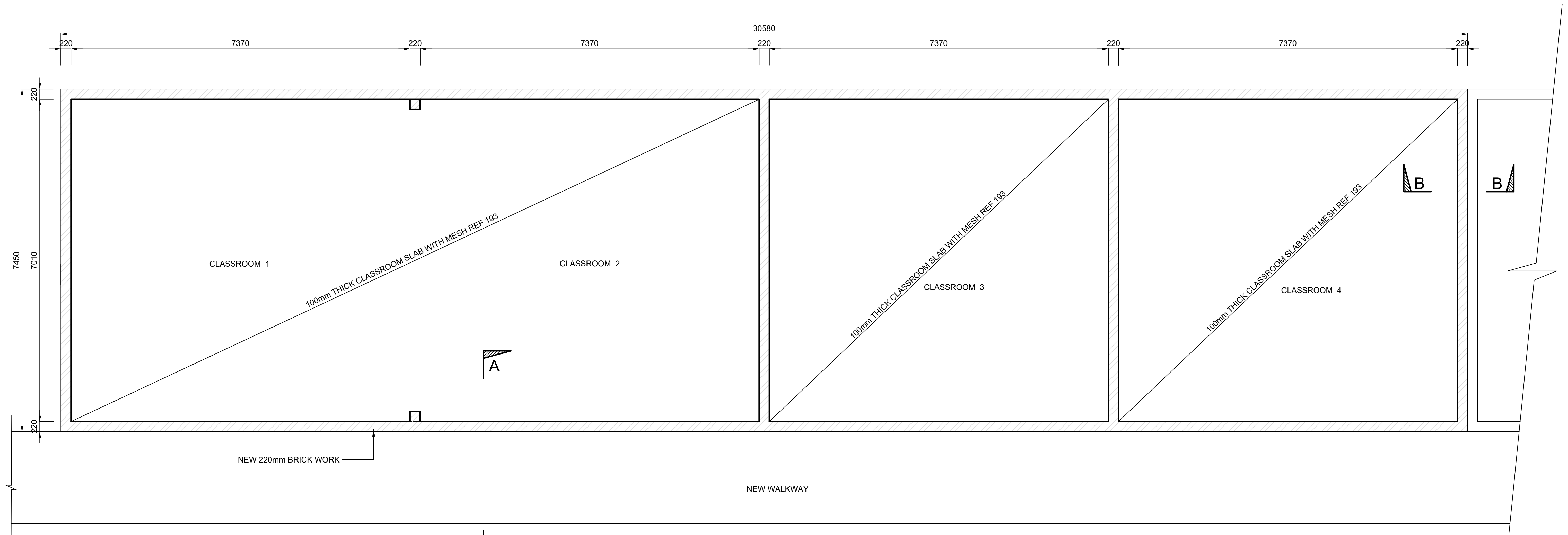
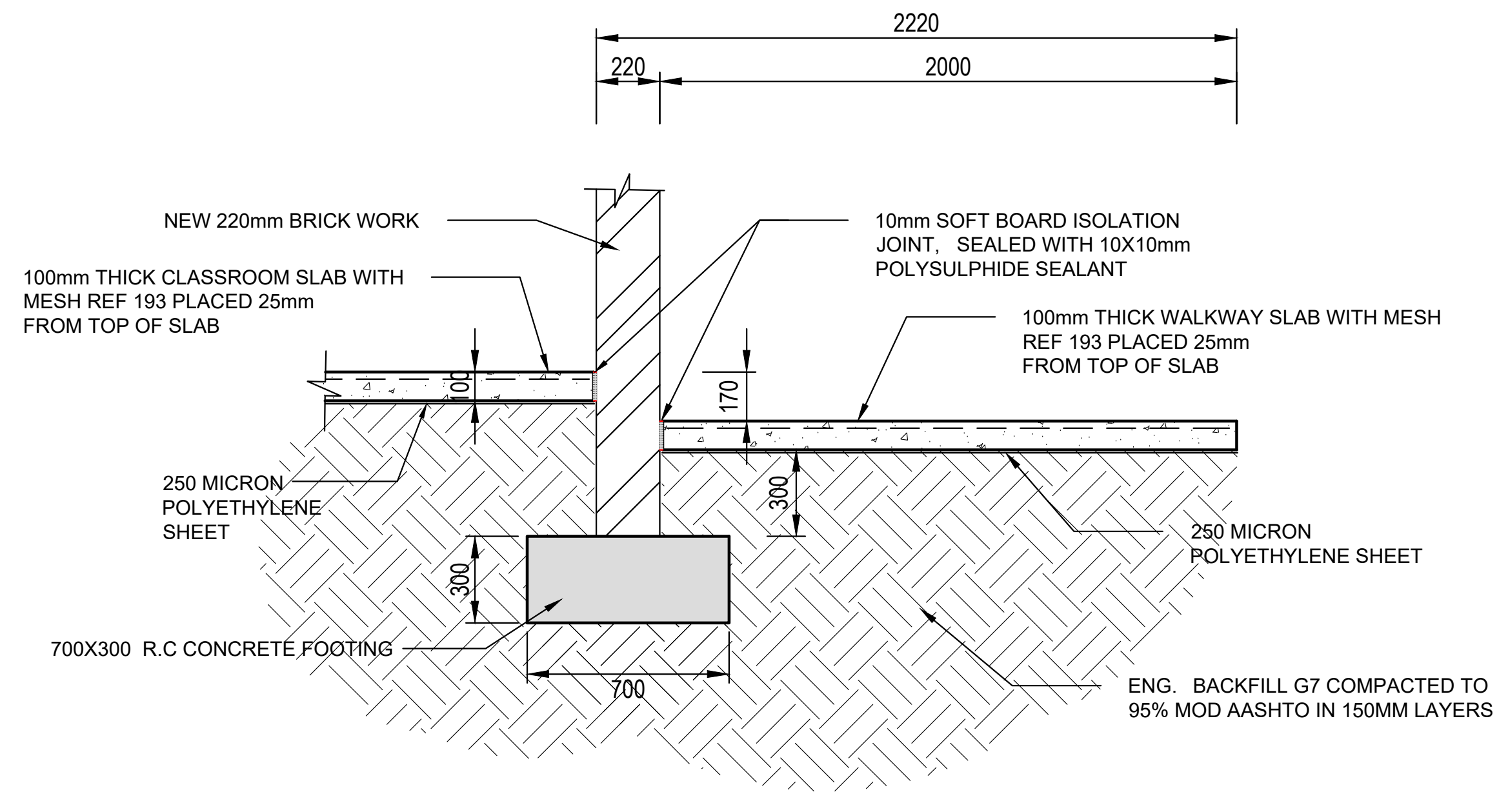


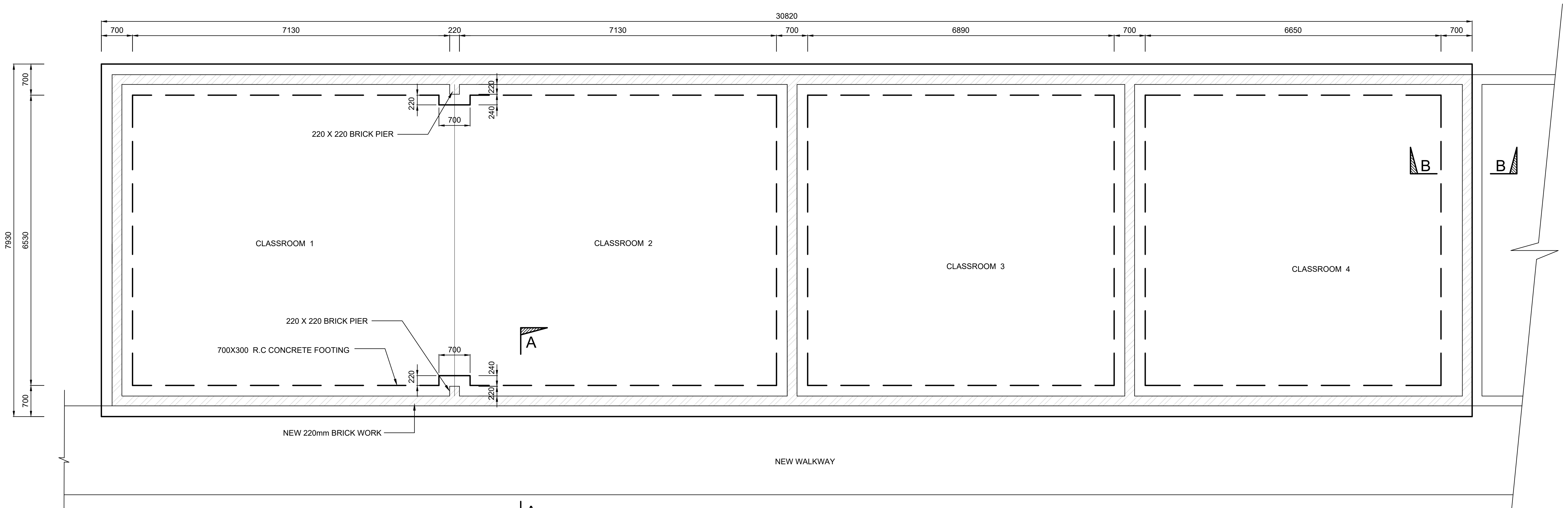
SURFACE BED SLAB PLAN - BLOCK B

SCALE 1:50



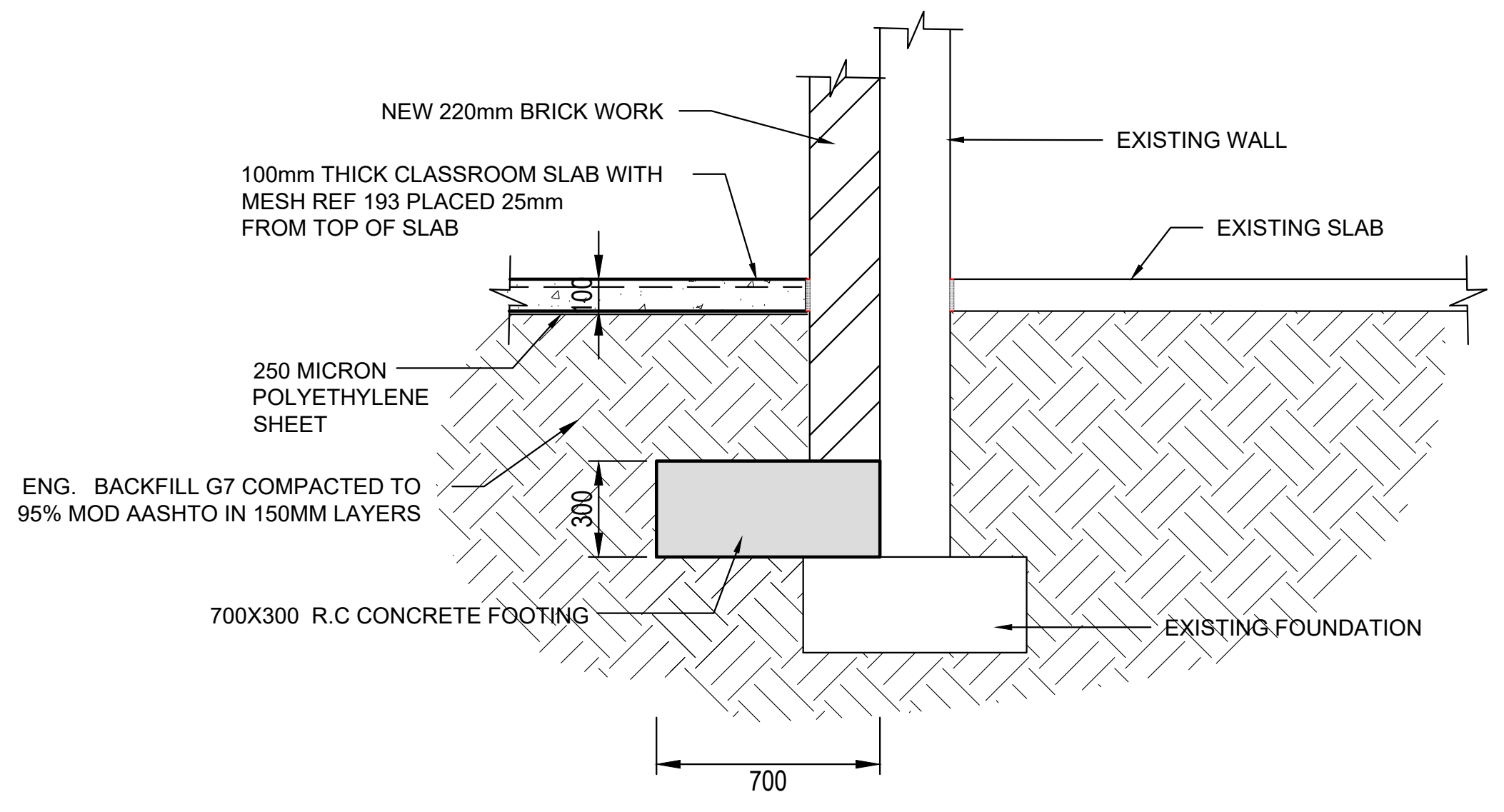
SECTION A - A

SCALE 1:20



FOUNDATION PLAN - BLOCK B

SCALE 1:50



SECTION B - B

SCALE 1:20

KZN Department of Education Stamp and Signature

Signature: Date:

Consultant:

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 133 - DALALA PRIMARY

Drawing Description:
BLOCK B - FOUNDATION CONCRETE AND REINFORCING LAYOUT

Drawn: K. Chetty Date: 2020/02/17
Scales: As Shown

Consultant Drawing No: V16-0539-036b
Revision: 0
DOPW CONTRACT No: ZNTL04781W
DOPW WIMS No: WIMS : 063803
Stamped by Design Review Committee