

STANDARD SPECIFICATION:

ROOF

A) ROOF PITCH TO BE 17.5 DEGREES. 0.6MM CONTINUOUS IBR PROFILE ROOF SHEETING WITH PRE PAINTED FACTORY FINISH FIXED WITH LEAK KING ROOFING SCREWS. HOLES FOR ROOFING SCREWS TO BE DRILLED NOT PUNCHED. SONDOR POLYCLOSURES AT RIDGE FLASHING AND MASTIC SEALANT TO ALL SIDE LAPS. DETERMINE DIRECTION OF WIND BEFORE LAYING SHEETS. SHEETS TO PROJECT A MINIMUM OF 50MM BEYOND PURLINS AND EAVES. SHEETS TO BE FIXED TO 76 X 50MM PURLINS AT MAX. OF 1250MM CRS ON TRUSSES MAX OF 1250MM CRS TO BE STRAPPED TO 114 X 38MM WALLPLATE WITH 30 X 1.6 X 1600MM LONG GALVANIZED HOOP IRON STRAPS BUILT INTO COURSING. 114 X 38MM RAFTERS AND TIES. 114 X 38MM INTERMEDIATE MEMBERS AS PER DETAILS. HURRICANE CLIPS TO BE USED EXTERNALLY TO SECURE PURLINS TO TRUSSES AT EAVES OVERHANGS. DOUBLE WOUND 2.5MM DIAMETER GALVANIZED WIRE TO SECURE PURLINS INTERNALLY. ALL EXPOSED ROOF TIMBER TO BE PAINTED WITH 2 COATS OF ABE PROVONITE, BEFORE FIXING ON ROOF SHEETS, FASCIAS AND BARGEBOARDS. B) SISALATION 'RSA 420' UNDERLAY OVER TRUSSES AND UNDER PURLINS ON STRAINING WIRE PREFABRICATED CLEATED ROOF TRUSSES OR TRUSSES MANUFACTURED ON SITE TO BE TO DEPARTMENTAL ENGINEERS APPROVAL. C) BEAM FILLING TO UNDERSIDE OF ROOF SHEETS.

CEILINGS

D) 9MM RHINOBOARD CLOUT NAILED TO 38 X 50MM BRANDERING AT 450MM CRS, PRIME, FILL AND SKIM LEVEL FOR PAINTING. 12MM WIDE H-PROFILE METAL COVER STRIPS TO JOINTS. 75 X 20MM SOFTWOOD CORNICE SPIKED TO WALL, ALL JOINTS TO BE BEVELED, PRIME, SAND, UNDERCOAT AND TWO COATS PVA.

BARGE AND FASCIA BOARDS

E) EVERITE NUTEC FIBRE CEMENT SOCKETLESS BARGE BOARDS (PRODUCT NO. 521-731) 200 X 80MM WIDTH H-PROFILE ALUMINIUM BARGE BOARD JOINTERS (PRODUCT NO. 685-187). DRILL FOR AND FIX WITH HOT DIPPED GALVANIZED SCREWS AND WASHERS. 76 X 50MM TRIMMER BATTEN FIXED TO UNDERSIDE OF PURLIN ENDS FOR BARGE BOARD FIXING. F) EVERITE NUTEC MEDIUM DENSITY CEMENT FASCIA (PRODUCT NO. 041-202) 12 X 225MM WIDTH H-PROFILE ALUMINIUM FASCIA BOARD JOINTERS (PRODUCT NO. 685-195) DRILL FOR AND FIX WITH HOT DIPPED GALVANIZED SCREWS AND WASHERS.

GUTTERS AND DOWNPIPES

G) SEAMLESS ALUMINIUM OGEE GUTTERS WITH BAKED ENAMEL FINISH FIXED TO SUPPLIERS SPECIFICATIONS, WITH 100 X 75MM FLUTTED ALUMINIUM DOWNPIPES WITH BAKED ENAMEL FINISH AND FIXED TO SUPPLIERS SPECIFICATION.

AIR-BRICKS

H) 229 X 152MM TERRA-COTTA VERMIN PROOFED AIR-BRICKS AS INDICATED ON GABLE ELEVATIONS.

PLASTER

J) INTERNAL PLASTER TO BE 13 TO 16MM THICK. CEMENT/SAND RATIO OF 1:5 PLASTER SEALED. 1 UNDERCOAT, 2 COATS 'WALL N ALL' EMULSION PAINT. COLOUR TO BE APPROVED.

VERANDA WALKWAY

K) 100MM THICK CONCRETE SLAB (20 MPA) REINFORCED WITH MESH, REF. 193. SET 25MM ABOVE MICRON GUNPLAS USB GREEN DPG ON 50MM TREATED AND RAMMED RIVER SAND ON FILL COMPACTED TO 95% MOD AASHTO. SLAB LAID WITH 25MM FALL AWAY FROM WALL AND CAST IN ALTERNATE PANELS OF 2000MM. CONTROL JOINTS SEALED WITH 10MM POLYSULPHIDE SEALANT WITH BACKING STRIP AND SOFTBOARD.

CONCRETE APRONS / CHANNELS

L) 75MM THICK 20 MPA CONCRETE APRONS LAID TO A FALL OF 1:200 TO RELIEF POINTS, CAST ALTERNATE PANELS WITH A CONTROL JOINTS EVERY 2000MM. ON FILL COMPACTED TO MOD AASHTO 95%. CONTROL JOINTS TO BE SEALED WITH 10MM POLYSULPHIDE. M) CONCRETE APRON V-CHANNEL LAID TO FALL OF 1:200 & IN PANELS WITH CONTROL JOINTS AT EVERY 3M CENTRES ON FILL COMPACTED TO MOD AASHTO 95%. CONTROL JOINTS SEALED WITH 10MM POLYSULPHIDE SEALANT WITH BACKING STRIP & SOFTBOARD. N) EXPANSION JOINTS AS INDICATED ON PLAN TO BE FORMED WITH CONTINUOUS STRIP OF 12MM BITUMEN IMPREGNATED SOFTBOARD BETWEEN 230MM BRICK WALLS. TO BE SEALED INTERNALLY AND EXTERNALLY WITH 10MM DEEP POLYSULPHIDE SEALANT.

WINDOWS / SILLS / DOORS / SECURITY GATES

P) STEEL WINDOWS BOTTOM HUNG WITH BURGLAR BARS. Q) BOE FACBRICK EXTERNAL SILL OR PLASTERED IN NON FACE BRICK SCHOOLS.

MAINTENANCE AND REFURBISHMENT KEY

Note storm damaged roofs due to engineering procedures may require existing nailed trusses and purlins to be replaced with new gangnail trusses and purlins. Certification is problematic with old nailed trusses. Therefore, please price both options. New trusses will require new beam filling and hoop iron strapping as per the standard specification. See point 6

1 new painted all sides FC fascia to replace broken/damaged and new aluminium ogle gutter with round PVC downpipes/shoes and swan neck to replace broken damaged. Brackets/fixings and material as per standard manufacturer and client specification

2 new painted all sides FC Bargeboard to replace broken/damaged. Brackets/fixings and material as per standard manufacturer and client specification

3 replace broken glass panes and weathered putty with new 4mm glass, putty and paint to protect. Rusted burglar proofing and window frames to be repaired by sanding off rust and cold galv application and then standard 3 coat paint application

4 Remove damaged existing or install new salsation sheeting where previously only AC sheeting by using correct grade and using straining wire as per manufacturers recommendation and detail

5 remove and dispose with care as per regulations existing Asbestos roof sheeting and accessories, re roof with specified colormet IBR roofing with colour and profile to match existing by installing new purlins next to the existing as removing will damage the trusses.

6 Retain existing nailed trusses and nail on any additional members over exist if any are damaged to the engineer's approval. Average truss number per classroom = 6 and number of purlins including 2 tilting battens = 12 repair beam filling where necessary by removing and rebricking/plaster/paint up cracked areas

7 Repair damaged screeds with cement sand screed to an even flush finish and vinyl tile finish entire floor with meranti skirting around perimeter

8 Fix meranti dado rail on three sides to walls where walls are damaged. Install new pin up boards and black boards to classrooms where damaged

9 Build in flush against adjacent Elements/ finishes and to falls shown the standard detailed V drain and spreader/arrester at least 3 metres beyond the building. Ensure v drain depth is sufficient as well as to the fall. Ensure explanation joints and reinforcing is as per Engineers specification

10 Repair or build new tank stands to details

11 Repair existing or build new tank stand for existing or new tank as shown and as per standard details and specification. Where necessary install new tap or repair and ensure down pipes are in order to the tank and correctly supported/connected as per specifications

12 New SAP purlins and fixed as per standard drawing

13 Repaired/strengthen existing nailed SAP rafters. Check for fixings to hoop iron if still solid firm and tight or correct

14 Tilting purlins to be replaced and correctly fixed as per details and specification

15 Electrics/lighting in roof where damaged by roof blowing off to be replaced as per electrical engineer

16 Repair existing concrete U channel and GMS grid as damaged

17 Vertical expansion joint crack to be raked out and v jointed with polysulphide sealant both internal and external

18 Apron walkways either under cover or as link walkways or assembly areas between blocks where erosion is occurring all with mesh and concrete to engineers' specification and standard details. All laid to fall to perimeter v drains to their own fall as shown

19 All walkways to toilet blocks to have a v drain detail across the path just before reaching the toilet block entrance platformed area to prevent flow flooding down the walk way and slope to the toilets. See detail

20 Purpose made timber truss eaves extension brackets for extended new roof sheeting to serve as overhang to protect high walls and new gutters as per detail

21 Repair/clean existing wc pans or replace with new where the former is not possible as per standard specification

22 New standard fencing to replace damaged fencing including new poles if applicable

23 New washbasins installed as none existed or were broken/removed. Standard specification and installation details to be applied

24 De rust existing steel channel purlin beams by sanding and apply cold galv coating plus 3 coats finishing paint specification

25 Existing IBR roofing to be checked for leaks and rust. If minor rust apply specified de rust coats and final paint finishes to standard specification. Leaks to be repaired as per instruction if possible after bring to architects' attention

26 New IBR roof sheeting ridging to match existing fixed as per standard specification

27 Existing damaged iso board ceiling panels to be replaced with new panels and fixd as per standard specification between the purlins

28 New water reticulation piping to washbasins to replace damaged or missing piping to standard specification

29 New 110mm PVC vent pipes and accessories to replace damaged pipes to standard specification

30 New waste water piping to serve new basins or damaged piping to standard specification

31 New Whirly Bird unit to replace damaged or missing extraction whirly Bird

32 New toilet roll holders, Door stops, door furniture to replace missing or damaged

33 Repairs to existing doors and door furniture including re painting to standard specification

34 Remove existing damaged paint and repaint existing internal walls as per standard specification

35 Remove existing damaged paint repair cracks and repaint existing external walls as per standard specification

36 Paint new and damaged existing external timber elements as per standard specification

37 Refix or Replace wind damaged/removed IBR/Corrugated sheeting to match existing. Include repair to roof structure elements if necessary.

38 Repair / Replace / new Downpipes and accessories to tanks

39 De rust/repair/repaint insitu security gates or replace if totally non functional

40 Existing sloping perimeter aprons which are non-functional as no v drain which needs to be added

41 Repair existing walkways flat bottom drains and small concrete block retaining walls to some classroom block walkways where ground levels required this

42 Existing security panel ceiling and steel support posts to be removed and repositioned after roof has been redone

43 Purpose made or patent security existing doors to computer classrooms and to admin stores

44 Repair screeded floors in toilets/ or clean and sanitize and with both epoxy coat floor from entrance whichever is needed

45 Replace broken removable reinforced concrete cover panels to soil water tanks/pits with concrete cover as per standard detail

46 Aluminium anodized louvre panel +- 600 x 600 to toilet blocks roof space for ventilation. Used with the whirly bird type ventilation system

47 Repair existing gypsum board ceilings with new boards, cover strips and cove cornices to match existing. Finish with paint. All as per standard specification. Re place damaged battens where applicable

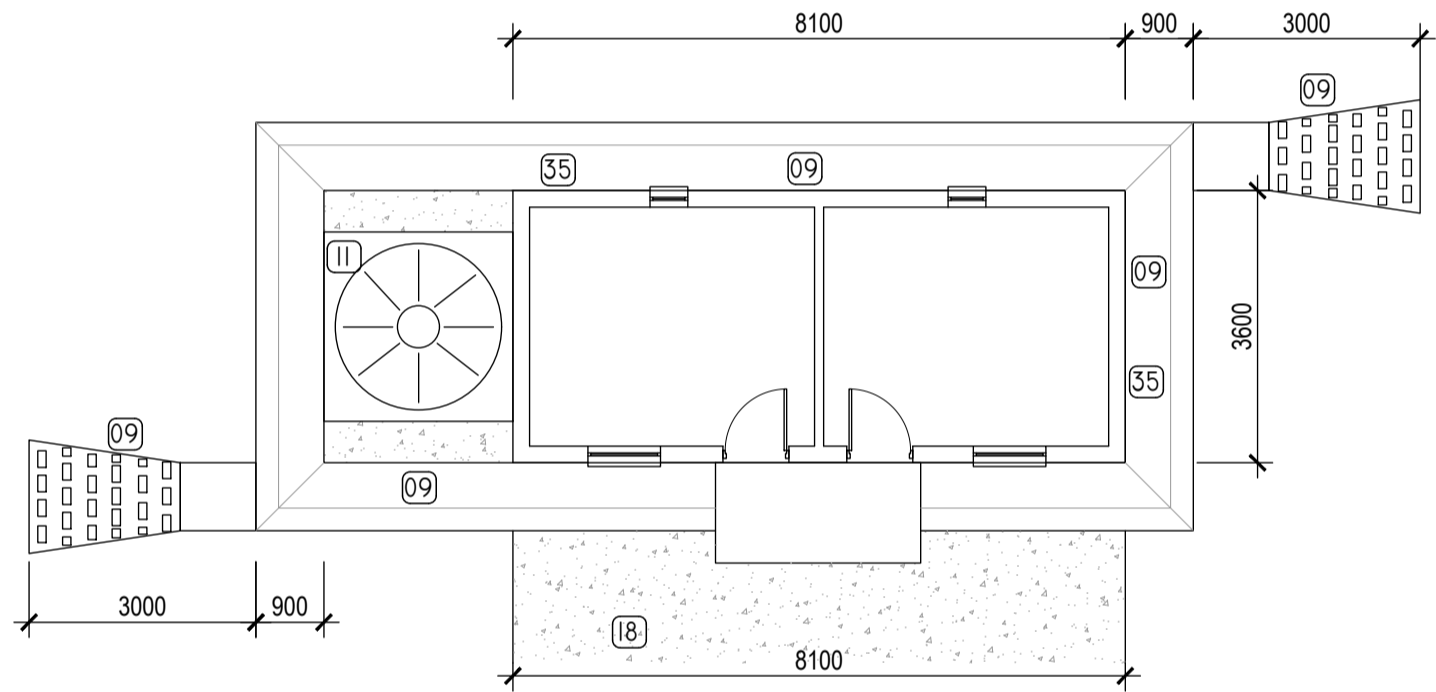
48 New ceilings to be installed where existing cannot be repaired with battens or aluminium frame work fixed to new or exiting trusses. Ceiling material as per standard classroom or admin office or kitchen specification

49 Replace damaged concrete block corner column with same with reinforcing to engineer, Plaster and paint. Temporary support required while undertaking removal and new work

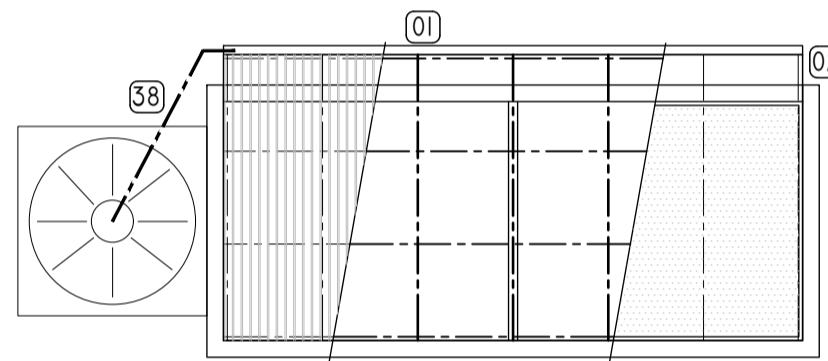
50 New standard fencing to areas where fence has been damaged due to weather, erosion or damage. See BOQ

51 Agricultural drains as per BOQ description to areas marked where the water overflow run off from tanks and downpipes is causing excessive dampness affecting to enclosure performance of the building envelope. Some areas have a higher water table in the region of a classroom block and surrounding area as indicated needs to be drained via agricultural drains

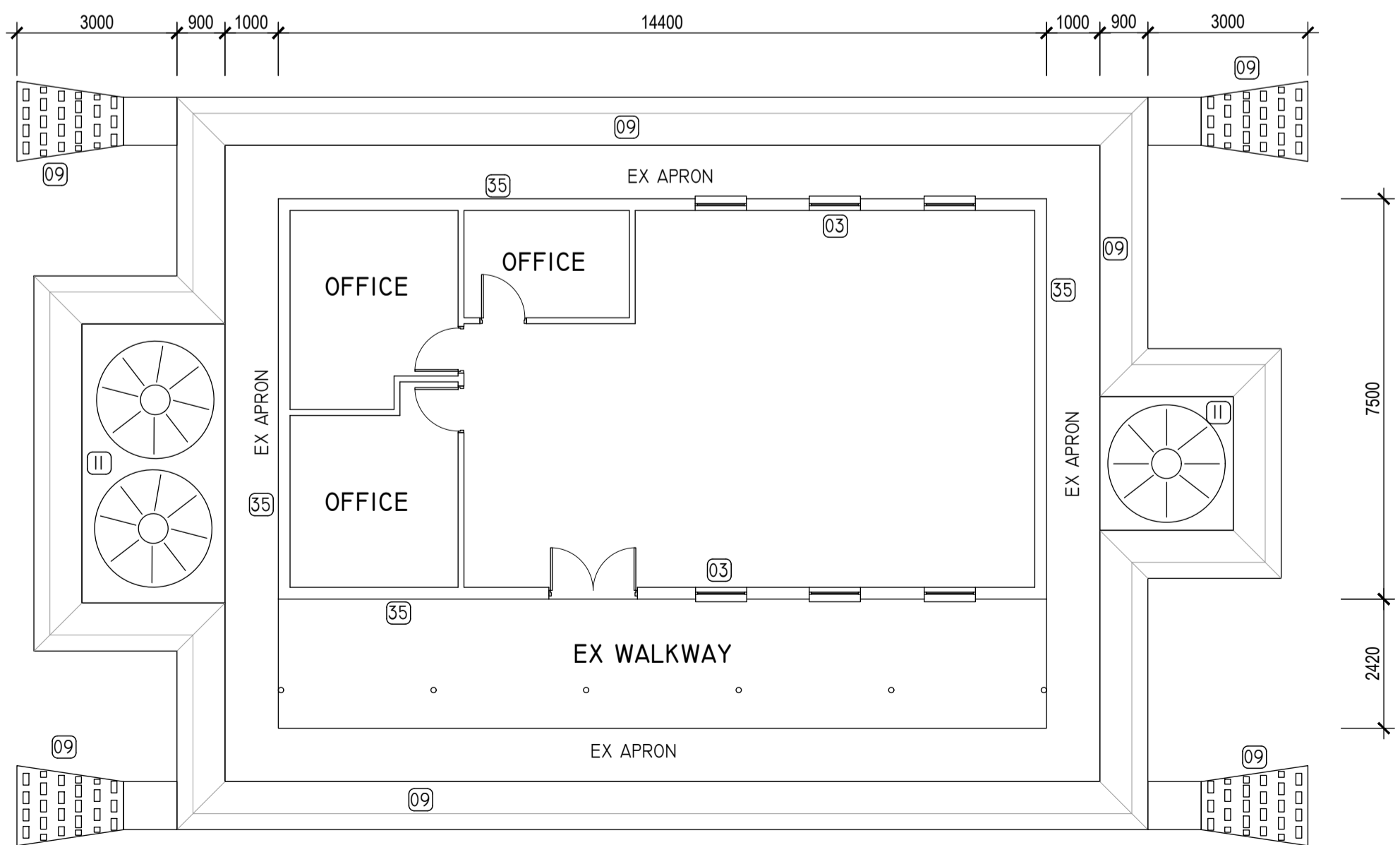
52 Existing stormwater catchpits built in brick with concrete cover and concrete piping in between to be extended or new put in where shown. See engineers' details and BOQ



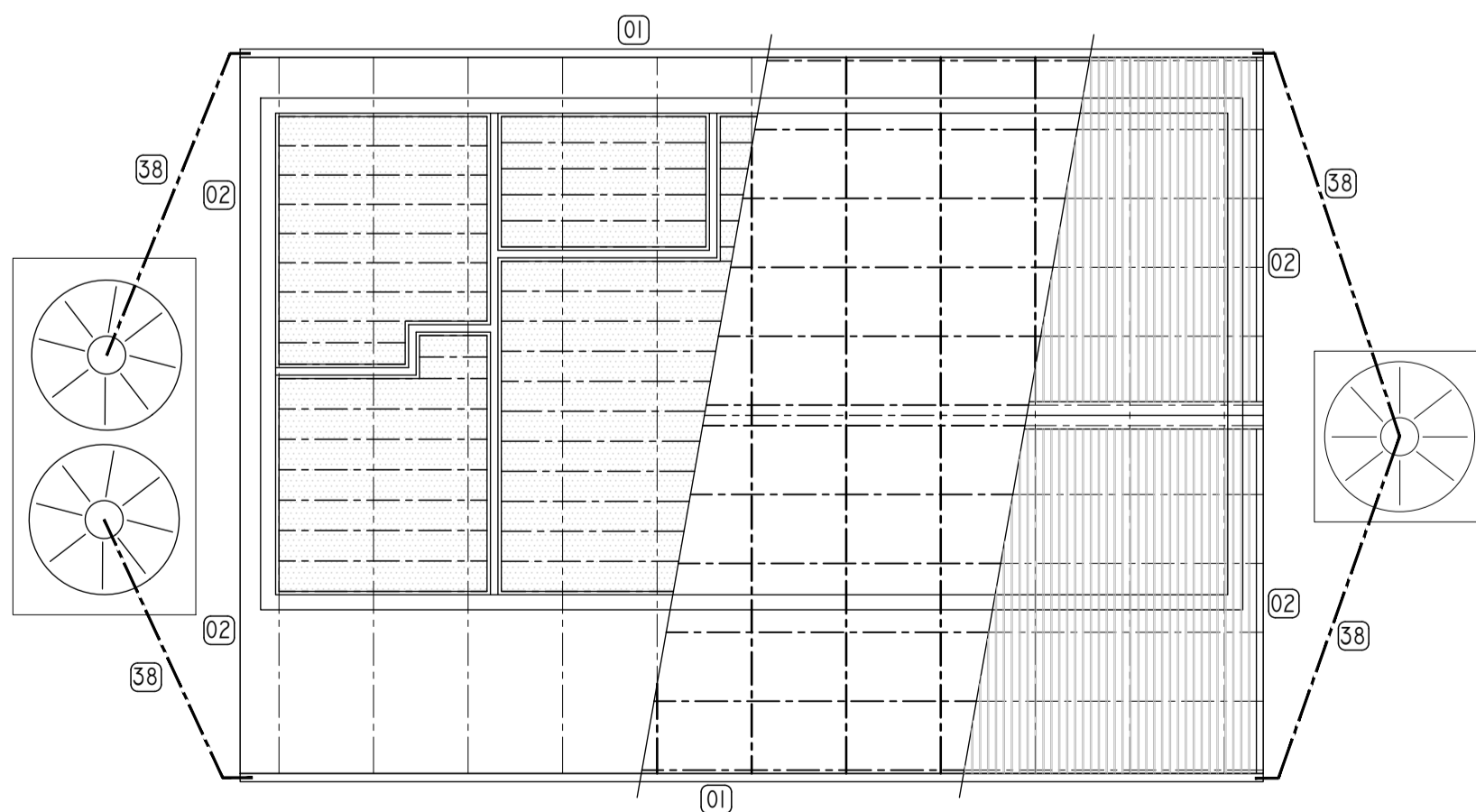
BLOCK C - FLOOR PLAN 1:100



BLOCK C - ROOF PLAN 1:100



BLOCK D - FLOOR PLAN 1:100



BLOCK D - ROOF PLAN 1:100

NCEKUYA PRIMARY SCHOOL BLOCK C & D

REVISIONS:

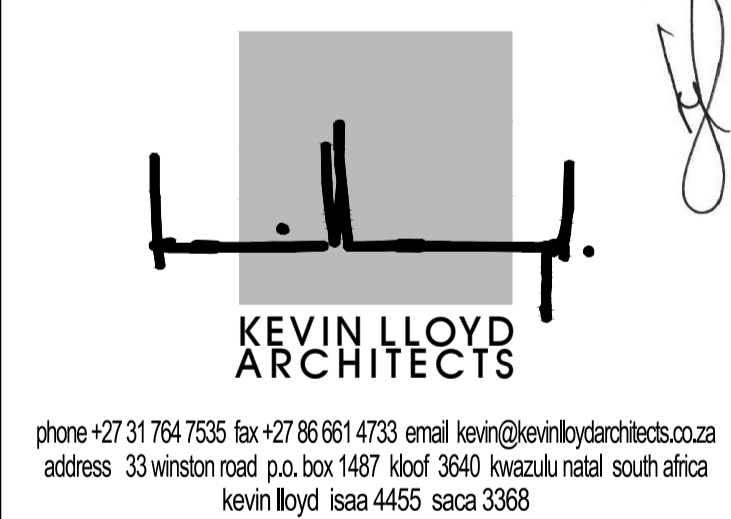
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CLIENT:



CONSULTANT:



PROJECT:

RPF 1162018 KZN PSP FRAMEWORK ORDER
STORM DAMAGES PHASE 17

TITLE:

NCEKUYA PRIMARY SCHOOL
EMIS 500342213
KING CETSHWAYO DISTRICT
UMLALAZI LOCAL MUNICIPALITY

DESCRIPTION:

BLOCKS C & D - FLOOR PLANS