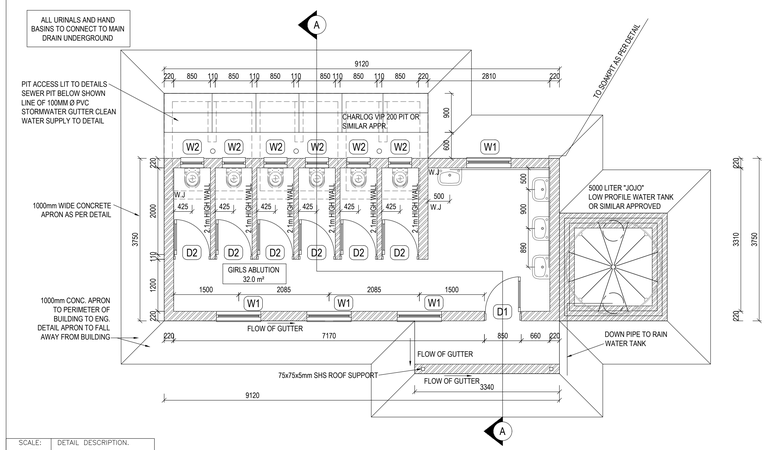
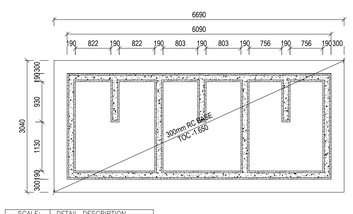
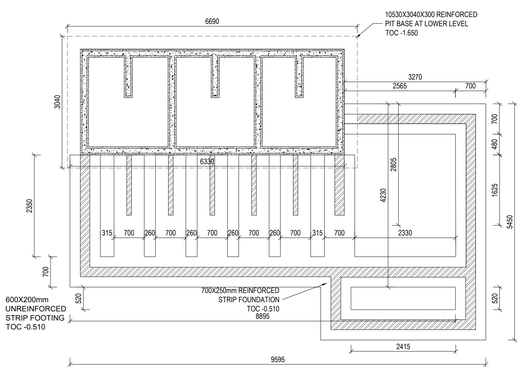


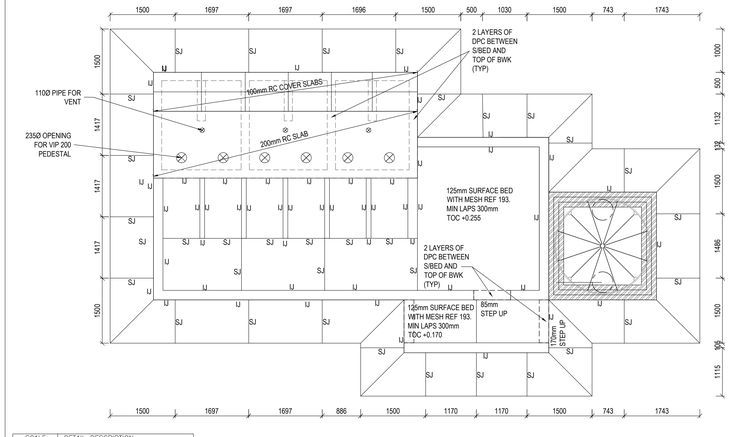
SCALE: 1:50 | DETAIL DESCRIPTION: FLOOR PLAN



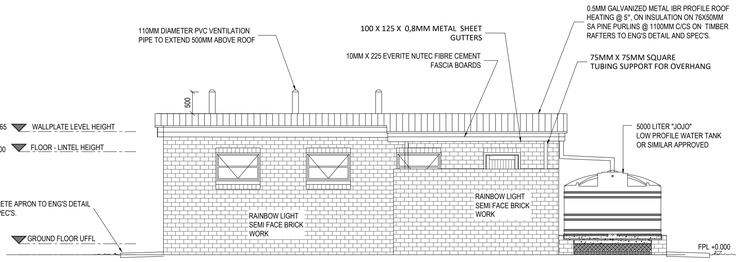
SCALE: 1:50 | DETAIL DESCRIPTION: PIT FOUNDATION



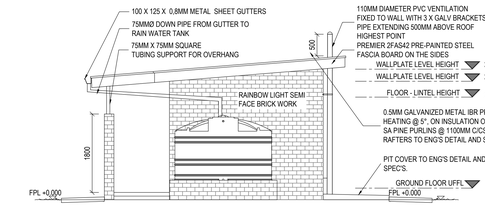
SCALE: 1:50 | DETAIL DESCRIPTION: FOUNDATION PLAN



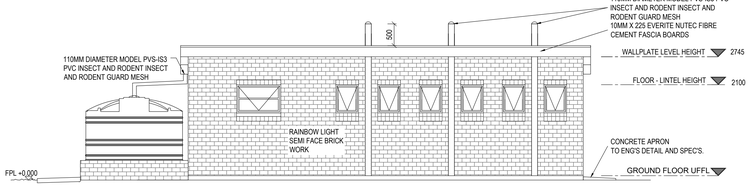
SCALE: 1:50 | DETAIL DESCRIPTION: SURFACE BED LAYOUT



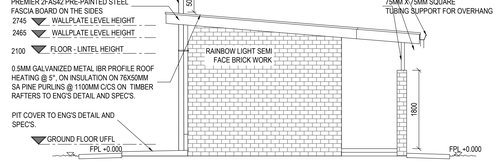
SCALE: 1:50 | DETAIL DESCRIPTION: FRONT ELEVATION



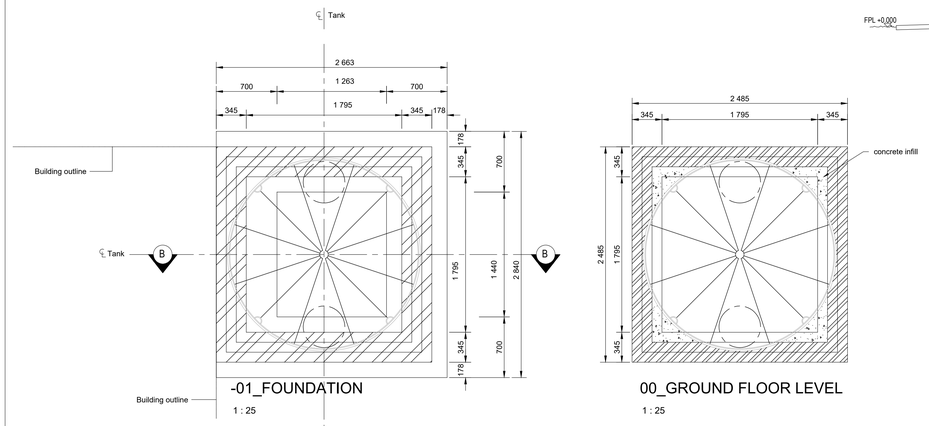
SCALE: 1:50 | DETAIL DESCRIPTION: SIDE ELEVATION



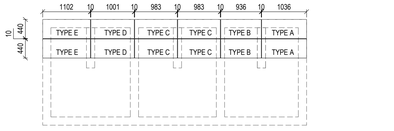
SCALE: 1:50 | DETAIL DESCRIPTION: BACK ELEVATION



SCALE: 1:50 | DETAIL DESCRIPTION: SIDE ELEVATION



SCALE: 1:25 | DETAIL DESCRIPTION: WATER TANK - STANDARD DETAIL



TYPE A	QUANTITY	2	
TYPE B	QUANTITY	2	
TYPE C	QUANTITY	4	
TYPE D	QUANTITY	2	
TYPE E	QUANTITY	2	

SCALE: 1:50 | DETAIL DESCRIPTION: PIT COVER SLAB DETAILS

TYPE:	D1 : STANDARD MILD STEEL 813x2032x1.2mm FRAME	TYPE:	D2 : STANDARD MILD STEEL 813x2032x1.2mm FRAME
FRAME:	STANDARD MILD STEEL 813x2032x1.2mm DOUBLEREBATE PRESSED METAL DOOR FRAME FOR 220mm WALLS. GALVANISED FINISH	FRAME:	STANDARD MILD STEEL 813x2032x1.2mm SINGLE REBATE PRESSED METAL DOOR FRAME FOR 110mm WALLS. GALVANISED FINISH
F.FINISH:	GALVANISED. NOT PAINTED.	F.FINISH:	GALVANISED. NOT PAINTED.
DOOR:	813x2032x40mm MERANTI FLB FLUSH OPEN BACK DOOR. FINISH WITH 1 COAT UNIVERSAL UNDERCOAT AND 2 COATS ENAMEL PAINT.	DOOR:	813x2032x40mm SEMI SOLID CORE DOOR. FINISH WITH 1 COAT UNIVERSAL UNDERCOAT AND 2 COATS ENAMEL PAINT.
IRONM:	HINGES -STANDARD HINGES PER DOOR FRAME LEAF. LOCKSET-SOLID BLESBOK 460/313 3 LEVER LOCKSET.	IRONM:	HINGES - STANDARD HINGES PER DOOR FRAME: LOCKSET - BB-179S BRASS BARREL BOLT TOILET LOCKSET.
QUANTITY:	1	QUANTITY:	6

TYPE:	W1: NE2-TYPE STANDARD RESIDENTIAL TYPE	TYPE:	W2: NE1-TYPE STANDARD RESIDENTIAL TYPE
FRAME:	STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW FRAMES - COMPLETE WITH BURGLAR PROOFING OUT OF 10mmØ SOLID ROUND BARS.	FRAME:	STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW FRAMES - COMPLETE WITH BURGLAR PROOFING OUT OF 10mmØ SOLID ROUND BARS.
GLASS:	6.5mm SAFETY GLASS FIXED WITH GLAZING PUTTY. PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME.	GLASS:	4mm FROSTED GLASS FIXED WITH GLAZING PUTTY. PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME.
FITTING:	APPROVED STANDARD BRASS FITTINGS COMPLETED WITH WINDOW.	FITTING:	APPROVED STANDARD BRASS FITTINGS COMPLETED WITH WINDOW.
FINISH:	GALVANISED. NO PAINTING REQUIRED	FINISH:	GALVANISED. NO PAINTING REQUIRED
NOTES:	COURSES ADJACENT TO WINDOW JAMBS ARE TO HAVE CARES FILLED ALLOWING FIXING LUGS TO BE BUILT-IN	NOTES:	COURSES ADJACENT TO WINDOW JAMBS ARE TO HAVE CARES FILLED ALLOWING FIXING LUGS TO BE BUILT-IN
QUANTITY:	4	QUANTITY:	6

SCALE: 1:50 | DETAIL DESCRIPTION: DOOR AND WINDOW SCHEDULE

GENERAL NOTE:

1. The implementing agent will give direction whether a pit will be sealed or un-sealed depending on the outcome of the ground water protocol.
2. The contractor will be responsible for excavation the pit, whatever the ground conditions, his/her cost.
3. All blocks to be mfr. engineering blocks for the whole substructure.
4. Section a-a shows the arrangement for an un-sealed pit, for sealed pits the outside wall of the substructure must be solid with no open vertical joints.
5. Central dividing walls must be constructed with fully mortared joints for the full depth.
6. The outer wall of the pit must have a minimum thickness of 200mm
7. The pit must be 1 course of bricks above the natural ground level.
8. The slabs will be designed and approved by the implementing agent.
9. The rain water harvesting tank must be equipped with a float valve and connected to the main water supply within the school yard, where it is available.
10. Taps in all wash hand basin must be charlock pvc Pro.
    Close taps to ensure reliable water conservation, which must be able to close at minimum 19kpa pressure.
11. Vent piping as follows:
    - pipes to be secured to the walls outside the ablution facilities
    - 3m 110mm Ø vent pipe (black - uv) fixed with 3 110mm holder bats
    - 110mm fly screen used at vent end Charlock VIP 200 toilet pedestals to be complete with seat lid. Grade R: Char Bambi/drop (kiddie pan)
    - pipes from sinks & urinal outlets to soilaway pit (50mm pvc)
    - pipes from gutters to fill tank (75mm pvc)
    - pipe from tank to sinks (15mm polycop) fitting to be done internally

CONSTRUCTION NOTES

FOUNDATIONS

1. Foundation to be 700mm wide x 250 thick. 25 mpa concrete strip footing under 230 walls.
2. They are to sit on firm compacted ground (excavated trenches) with a minimum of 700mm below ground level and to engineers approval upon inspection.

BACKFILL

1. Fill & imported fill to be approved clean earth, well watered & rammed in layers not exceeding 150mm in depth and thoroughly consolidated to a density of 95% mod ashto.

FLOORS

1. All to Engineers detail and specification.

WALLS

All walls are to comply with "Part K" of the National Building Regulations.

1. COROBRICK COMMONS to be used where to receive plaster.
2. COROBRICK ENGINEERING Bricks to be used below ground level in foundation walls.
3. RAINBOW LIGHT SEMI FACE BRICK to external work.
4. Brickforce to every 3rd course up to window head height thereafter all courses from window head to underside of wallplate. Galvanised crimp wire wall ties (7 per square meter laid staggered).
5. External face of inner skin to be painted bitumen paint. 375 micron embossed damp-proof membrane stepped below all window CILLS.
6. Where plaster is required internally (13 - 16mm thick) ratio must be 1:5 cement:sand mix. Beam filling to underside of roofing sheets.
   Control joints to be provided in accordance with engineers specifications & must be seated with 12mm deep polysulphide sealant with backing strip and impregnated softboard.
7. All internal brickwork to have brickforce at every third course of brickwork.
8. All founding and / or retaining wall to Structural Engineers details.
9. P.C. lintels to be installed over all new openings where walls to be plastered and painted.
10. **All Facebrick on edge lintels strictly to eng. detail**

ROOF

1. 0.5mm galvanized metal IBR profile roof sheeting @ 5°, on insulation on 76x50mm SA Pine purlins @ 1 100mm c/c on 38x176mm SA Pine grade 6 timber rafters @ 1 200mm c/c max spacing in accordance with the manufacturer's recommendations.
2. 100x125x0.8mm sheet metal gutters with 75mm down pipe draining into rain water tank.
3. Premier 2FAS42 pre-painted steel fascia board on sides.
4. 4mm Nutec fibre cement ceiling or similar approved nailed to 38x38mm SA Pine grade 6 banding.

CONCRETE MIX RATIO'S

STRENGTH	UNIT:CEM	UNIT:SAND	UNIT:STONE
10MPa	2	3.5	3.5
15MPa	2	3	3
20MPa	2	2.5	2.5
30MPa	2	2	2

NO.	DATE	REVISION	DRAWN
00	09/09/2022	FOR INFORMATION	N.I

CLIENT

DEPARTMENT of EDUCATION
PROVINCE OF KWAZULU-NATAL

TECHNICAL CONSULTANT

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REG. No. 1997/014139/07
2nd Floor Liberty Building
21 Aurora Drive, Umhlanga Ridge
Durban, 4319

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W www.mpamot.co.za

CESA

	NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED	N.I		09/09/22	A0
DRAWN	N.I		09/09/22	SCALE 1:10 | 1:20 | 1:25 | 1:50
VERIFIED	K.G		09/09/22	STATUS/USAGE: I. = Information C. = Construction AB. = As built
VALIDATED				

IMPLEMENTING AGENT

DBSA Development Bank of Southern Africa

PROJECT: MACEKANE PRIMARY SCHOOL SANITATION PROJECT

EMIS NO: 500147223

TITLE: ABLUTIONS BLOCK : 6 FEMALE STUDENTS

DESCRIPTION: LAYOUTS, SECTIONS AND DETAILS

DRG No. : 2021 - 01 - S - 004

REV 00