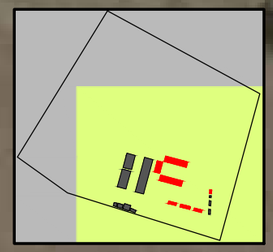
VUKAYIBAMBE SSS - FLAGSTAFF

EXISTING ABLUTION SCHEDULE				
LEANER'S ABLUTION				
	UR	WC	WHB	DISABLED
MALES	1	4	0	0
FEMALES	–	5	0	0
GRADE R	–	0	0	0
EDUCATORS ABLUTION				
	UR	WC	WHB	DISABLED
STAFF	0	1	0	0
	–	0	0	
Total Seats = 11				

ANNEXURE G			
ENROLLMENT = 1037		SEATS REQUIRED = 34	
GRADE - R	GIRLS	BOYS	URINALS
-	14 wc	6 wc	6 ur
DISABLED	F-STAFF	M-STAFF	URINALS
2 wc	3 wc	1 wc	2 ur

SHORT FALL			
GRADE - R	GIRLS	BOYS	URINALS
-	9 wc	2 wc	5 ur
DISABLED	F-STAFF	M-STAFF	URINALS
2 wc	2 wc	1 wc	2 ur



SITE PLAN KEY
Scale 1:7500

Existing Sports Field

Existing Building

Existing Building

Existing Building

Existing Structures

PREFAB UNITS

Assembly Slab

4.5KLT Tanks

4.5KLT Tanks

1500 WIDE CONC. COVERED VERANDAHS

1500 WIDE CONCRETE WALKWAYS

1500 WIDE CONCRETE WALKWAYS

Direction of Slope

Staff 7 seats

Girls 10 seats

Boys 6 seats

Existing Pit Toilets

VIP Toilets

EX. FENCE BOUNDARY

EX. FENCE BOUNDARY

Wind.D
N.E

Dominant Winds Near:
Margate

SITE PLAN SCALE 1:750

A3

SCHOOL ENROLMENT FORM FOR YEAR: 2017			
NUMBER OF PUPILS			
GRADES	BOYS	GIRLS	TOTAL
8	0	203	203
9	0	206	206
10	0	210	210
11	145	121	266
12	95	57	152
GRAND. T	240	797	1037

NUMBER OF EDUCATORS & ADMIN STAFF			
GRAND. T	MALES	FEMALES	TOTAL
17	6	11	17

CLIENT:

idt independent development trust

PROFESSIONAL SERVICE PROVIDER:

athi- AYANDA CONSULTING senior architectural technologists
CK/CC: 2011/003827/23

EAST LONDON Pr Reg. PSAT20667
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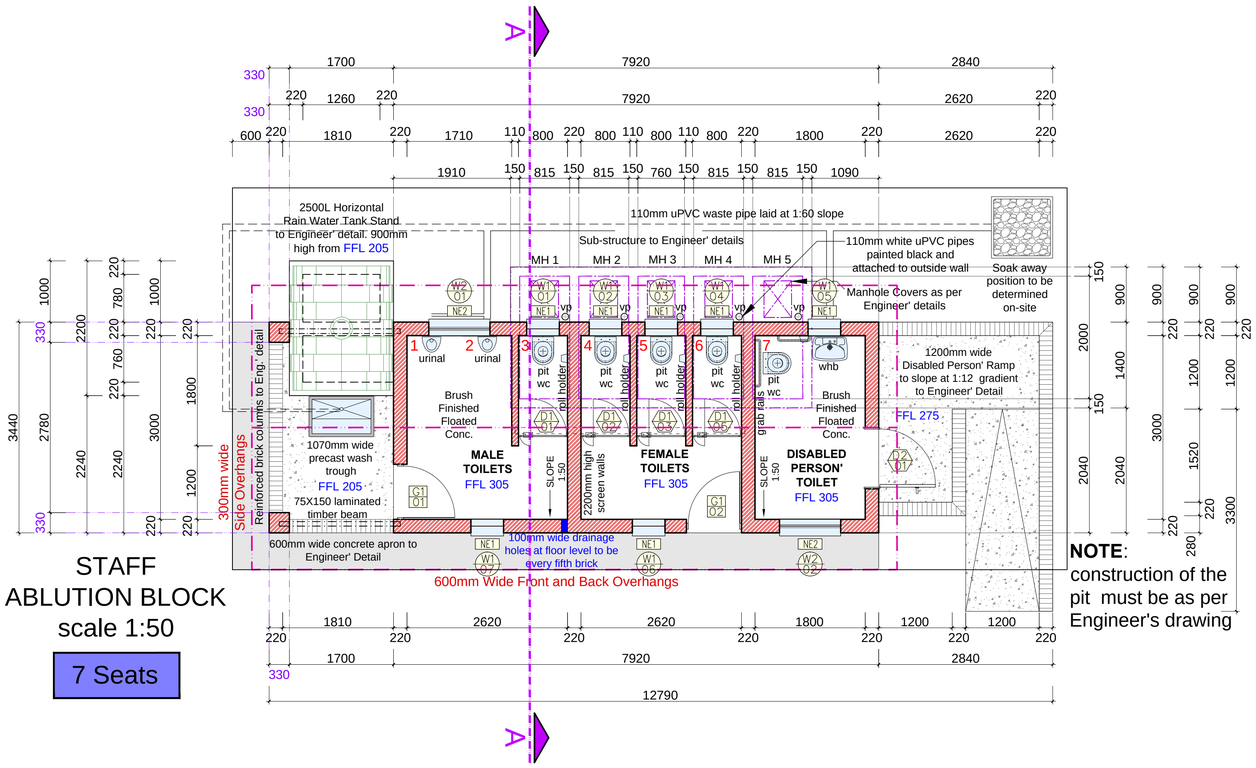
Fikile Ndzingani 072 409 8254

PROJECT:
VUKAYIBAMBE SSS
Provision of Emergency Temporal Classrooms & Ablutions
District: Mbizana

EMIS NUMBER:
200501278

DRAWING DESCRIPTION:
SITE DEVELOPMENT PLAN

PAPER SIZE:	MONTH DRAWN:
A3	MAR 2017
SCALE:	ISSUE DATE:
1:750	4 APRIL 2017

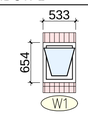
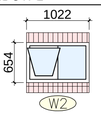
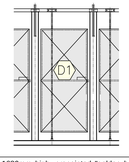
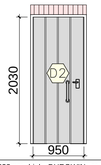
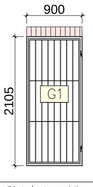


STAFF ABLUTION BLOCK
scale 1:50

7 Seats

NOTE: construction of the pit must be as per Engineer's drawing

Window and Door Schedule - scale 1:50

WINDOWS	WINDOW 1	WINDOW 2	
			
Description:	533 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE1 with 20 x 5mm hot-dipped galvanized flat bar to open sections	1022 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE2 with 20 x 5mm hot-dipped galvanized flat bar to open sections	
Finish:	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.	
Glazing:	4mm Opaque Glass with Steel Window Putty	4mm Opaque Glass with Steel Window Putty	
Ironmongery	Factory Fitted - Standard Brass Fittings	Factory Fitted - Standard Brass Fittings	
DOORS	DOOR 1	DOOR 2	GATE 1
			
Description:	760x1680mm high, prepainted "golden brown" formed of 19x19mm tubular steel framing and middle ledge welded at angles and intersections, covered on one side with 0,6mm galvanised sheeting pressed to shape with edges lapped around and rivetted to frame at 300mm centres, with slot for and including 25mm diameter x 2120mm long pivot pipe support welded on, with 150x75x3mm bottom	950x2032mm high DUROWIN or equal and approved fluted or braced single panel opening out door and two lever mortice lock with oneshop coat red oxide	Painted mild steel gate consisting of 12mm diameter steel rods placed at 109 mm centers as per detail.
Finish:		Dipped 1 coat red oxide primer before despatch	1 x coat zinc chromate primer and 2 x approved coats of gloss enamel (exterior quality)
Ironmongery	bearing bolted to floor with 3x6mm diameter bolts, 150x38x3mm top bearing bolted to beam. with 2x6mm diameter bolts, including top cap bearing bush, washers, bottom bearing bush and finishing smooth on all exposed edges, complete with all fixing brackets, bolts etc.	Supplied with door.	Padlock as per detail.
Frame:		DUROWIN Pressed mild steel frame. 1,2mm thick with single rebate. supplied with hinges and door.	25 x 25 x 2mm mild steel square tube welded to form frame.
Finish:		Inside of frame to receive bitumen paint finish before fixed in position. 1 x red oxide primer and 2 x coats of approved velvet enamel	1 x coat zinc chromate primer and 2 x coats of approved enamel (exterior quality)

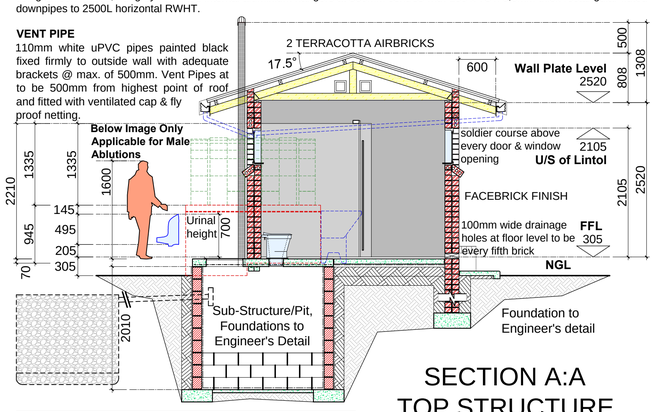
ROOF
Factory painted 0.558 IBR profile roof sheeting @ 17.5°, on 50x76mm S.A. pine purlins fixed to rafters @ 750 mm c/c spacings, on prefabricated timber trusses @ max. of 1200mm c/c spacing on 38x114 S.A. pine timber wallplates in long lengths, half laped & spiked at joints with gangnail plates, bedded on cement mortar & leveled before tieing down to walls with 1,6 mm thick galvanised hoop iron, 32mm wide into min. of 5 courses into brickwork & tied around tie-beam, rafter or additional purlin as convenient, and fixed with four galvanised nails, 40 mm long. **NOTE: Roof construction to be done by specialist as per truss designer's specifition & approval.** On-site the roof trusses must be placed on evenly laid pallets, covered & protected against weather. Hurricane Clips fixed with permix nails or bolts through pre-drilled holes at covered verandah/ tank stand area must be provided for.

CARBOLINEUM WOOD PRESERVER
All exposed structural timber is to receive two coats carbolineum**.** Timber must be dry and carbolineum applied to the entire roof trusses before the application of roof sheets.

RIDGE
450mm girth with roll top and bent down edges, galvanised metal ridge capping with 225mm lapping. final colour to match roof sheet covering.

GUTTER / DOWNPIPE
150 x 100 x 0,5mm thick pre-coated zincalume seamless gutter, including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by nail fixed internal aluminium hangers at 500mm centres with 100 x 75 x 0,8mm thick rectangular fluted downpipes to 2500L horizontal RWHT.

VENT PIPE
110mm white uPVC pipes painted black fixed firmly to outside wall with adequate brackets @ max. of 500mm. Vent Pipes at to be 500mm from highest point of roof and fitted with ventilated cap & fly proof netting.



SECTION A:A
TOP STRUCTURE
scale 1:50

sanitary schedule	
Pit WC:	As per details. VIP 450 Pit Pedestal (unit code: 237 AP), or similar approved.
Urinal:	Atlas Granite Bowl Urinal (unit code 507 AP) coupled with Atlas Waterless Urinal Waste Fitting (unit code: 496 AP)
DA Person' WHB	As per detail or similar approved.
Wash Trough	1070mm wide precast concrete wash through.

FASCIA
medium density plain ungrooved fascia boards, size 225 x 12mm thick, fixed to 114 x 38mm support battenfixed between steel structure.Screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.

BARGE BOARD
85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.

INTERNAL CILLS
150 x 15mm thick fibrecement cill fixed with standard galvanised lugs screwed to underside of cill and cast into mortar bed in compliance with manufactures specification.Cills to have top arris and coners sanded down to produce an even chamfer.

EXTERNAL CILLS
facebrick on edge with 375 micron brickgrip dpc underneath the cill.

WALLS
Damp proof coursing: to be gunplas black brickgrip or equal and approved 375 micron dpc, lapped minimum 150mm at all joints, and similarly lapped over green under-floor damp proof membrane.

DPC'S at door reveals (in cavity construction): minimum 150mm wide, to be tucked into side of door and window frames and sandwitched in mortar between outer, facebrick skin and cavity closer and to overlap lintol and cill DPC'S.

DPC'S at lintols: to be inserted above all windows, stepped up one course and built into inner skin coursing with mortar fill under all as detailed.

External / load bearing walls: to have galvanised brickforce reinforcing at 4 course intervals built into bed joints. Door heads to be reinforced to 3 course above openings, and at 3 course intervals thereafter.
N.B. Brickforce reinforcing strips to be built in isolation into the appropriate brick skin and must not be used to tie the inner and outer skins of the cavity together.

External brickwork generally: 85mm brick guage with maximum 10mm deep tooled, half-round horizontal and vertical joints all laid in compo mortar comprising 1 part cement: 1/4 part cape lime company plastic, pressure hydrated lime: 6 parts sand with open perpends forming weepholes as specified.

Internal brickwork generally: to be laid in compo mortar comprising 1 part cement: 1 part cape lime company plastic, pressue hydrated lime: 6 parts sand.

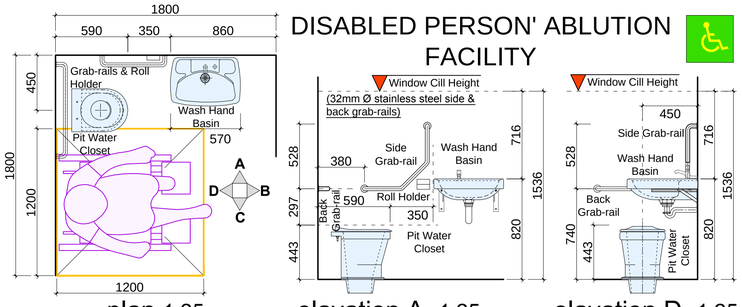
GRANO
40mm STEEL Trowelled, untinted granolithic screed comprising 4 parts granite, 1 part sand and 2 parts cement laid on concrete surface beds / r.c. Brashed Finish.

SKIRTING
Form 70mm high un-tinted granolithic skirting by turning the granolithic floor finish up against the walls and other vertical surfaces, hollow rounding the granolithic at junction with floors and finishing the top edge perfectly straight.

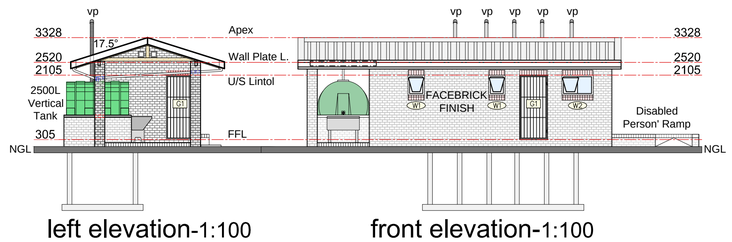
GENERAL
Black rubber door stop, 32mm, plugged and screwed to wall.

FLOOR CONSTRUTION
Granolithick floor finish on Powerfloated 85mm thick concrete surface bed on 250 micron Gunplas USB green waterproof membrane on 50mm sand blinding on well compacted clay free earth fill, and FINAL details to Engineer' specifications.

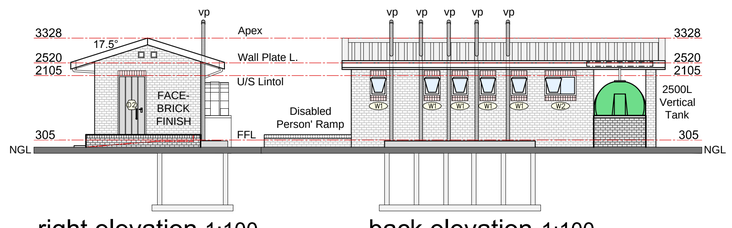
DISABLED PERSON' ABLUTION FACILITY



plan-1:25 elevation A -1:25 elevation D -1:25



left elevation-1:100 front elevation-1:100



right elevation-1:100 back elevation-1:100

A1

GENERAL NOTES:

1: FIGURED DIMENSIONS TO TAKE PREFERENCE OVER SCALED DIMENSIONS. ANY ERRORS, OMISSIONS OR DISCREPANCIES PERTAINING TO DIMENSIONS, LEVELS OR POSITIONS AS SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

2: THESE ARCHITECTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ENGINEERS AND OTHER CONSULTANTS DRAWINGS WHERE APPLICABLE. ANY DISCREPANCIES IDENTIFIED BETWEEN THE ARCHITECTS DRAWINGS AND DOCUMENTATION AND ANY OTHER SHOP DRAWINGS OR DOCUMENTATION FROM ANY OTHER SOURCE MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY.

3: ALL WORK TO COMPLY WITH THE NATIONAL BUILDING REGULATIONS.

4: ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ACCEPTED LOCAL BUILDING PRACTICE.

5: THESE DRAWINGS REMAIN THE COPYRIGHT OF THE ARCHITECT AND MAY NOT BE USED OR COPIED WITHOUT HIS PRIOR WRITTEN APPROVAL.

DRAINAGE NOTES:
ALL DRAINAGE TO COMPLY WITH SABS 0400, SECTION P, PART 3.

05		
04		
03		
02		
01		
DATE:	REVISIONS:	

CLIENT:
idt Independent development trust

PROFESSIONAL SERVICE PROVIDER:
athi-AYANDA CONSULTING senior architectural technologists
CK/CC: 2011/003827/23

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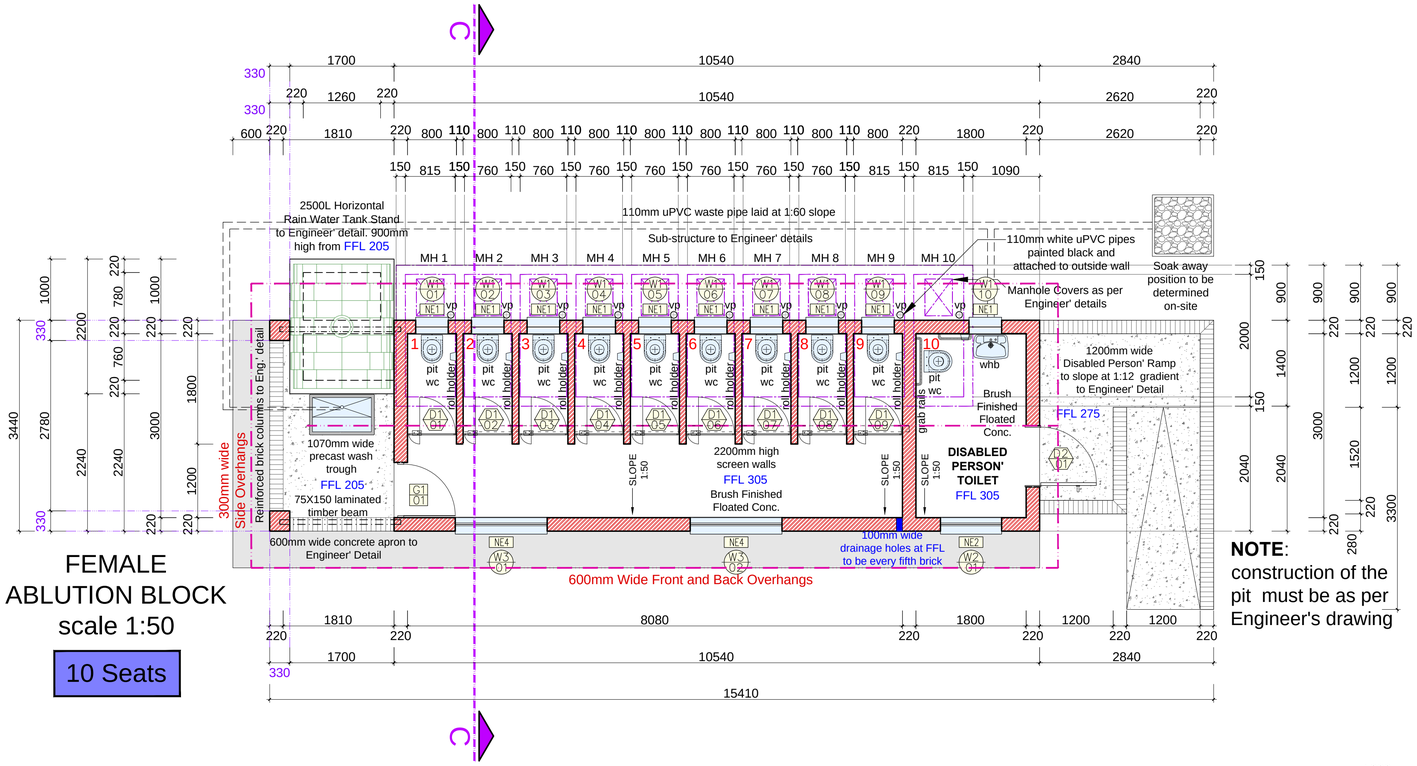
Fikile Ndzingani 072 409 8254

PROJECT:
VUKAYIBAMBE SSS
Provision of Emergency Temporal Classrooms & Ablutions
Ngcobo

DRAWING TITLE:
7 SEATS

DRAWING DESCRIPTION:
STAFF ABLUTION BLOCK
Floor Plan, Section, Elevations & Details

PAPER SIZE:	MONTH DRAWN:
A1	APRIL 2017
DRAWN BY:	ISSUE DATE:
FN	04 APR 2017
SCALE:	REVISION NUMBER:
As shown	00

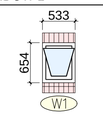
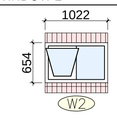
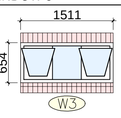
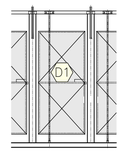
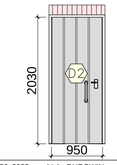
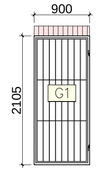


FEMALE ABLUTION BLOCK
scale 1:50

10 Seats

NOTE: construction of the pit must be as per Engineer's drawing

Window and Door Schedule - scale 1:50

	WINDOW 1	WINDOW 2	WINDOW 3
WINDOWS			
Description:	533 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE1 with 20 x 5mm hot-dipped galvanized flat bar to open sections	1022 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE2 with 20 x 5mm hot-dipped galvanized flat bar to open sections	1511 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE4 with 20 x 5mm hot-dipped galvanized flat bar to open sections
Finish:	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.
Glazing:	4mm Opaque Glass with Steel Window Putty	4mm Opaque Glass with Steel Window Putty	4mm Opaque Glass with Steel Window Putty
Ironmongery	Factory Fitted - Standard Brass Fittings	Factory Fitted - Standard Brass Fittings	Factory Fitted - Standard Brass Fittings
	DOOR 1	**DOOR 2**	**GATE 1**
DOORS			
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Finish:		Dipped 1 coat red oxide primer before despatch	1 x coat zinc chromate primer and 2 x approved coats of gloss enamel (exterior quality)
Ironmongery		Supplied with door.	Padlock as per detail.
Frame:		DUROWIN Pressed mild steel frame. 1,2mm thick with single rebate. supplied with hinges and door.	25 x 25 x 2mm mild steel square tube welded to form frame.
Finish:		Inside of frame to receive bitumen paint finish before fixed in position. 1 x red oxide primer and 2 x coats of approved velvet enamel	1 x coat zinc chromate primer and 2 x coats of approved enamel (exterior quality)

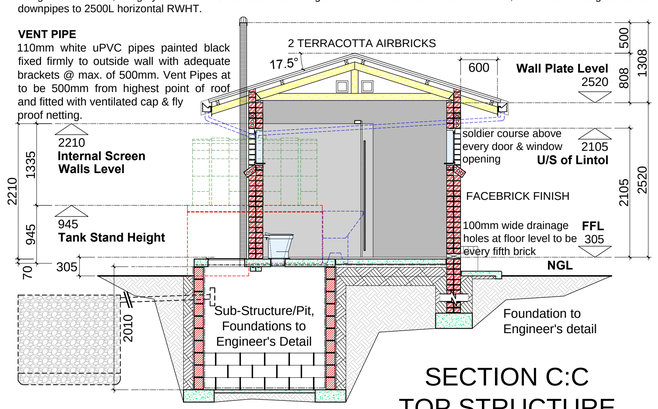
ROOF
Factory painted 0.558 IBR profile roof sheeting @ 17.5°, on 50x76mm S.A. pine purlins fixed to rafters @ 750 mm c/c spacings, on prefabricated timber trusses @ max. of 1200mm c/c spacing on 38x114 S.A. pine timber wallplates in long lengths, half laped & spiked at joints with gangnail plates, bedded on cement mortar & leveled before tieing down to walls with 1,6 mm thick galvanised hoop iron, 32mm wide into min. of 5 courses into brickwork & tied around tie-beam, rafter or additional purlin as convenient, and fixed with four galvanised nails, 40 mm long. **NOTE: Roof construction to be done by specialist as per truss designer's specification & approval.** On-site the roof trusses must be placed on evenly laid pallets, covered & protected against weather. Hurricane Clips fixed with permix nails or bolts through pre-drilled holes at covered verandah/ tank stand area must be provided for.

CARBOLINEUM WOOD PRESERVER
All exposed structural timber is to receive two coats carbolineum. Timber must be dry and carbolineum applied to the entire roof trusses before the application of roof sheets.

RIDGE
450mm girth with roll top and bent down edges, galvanised metal ridge capping with 225mm lapping. final colour to match roof sheet covering.

GUTTER / DOWNPIPE
150 x 100 x 0,5mm thick pre-coated zincalume seamless gutter, including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by nail fixed internal aluminium hangers at 500mm centres with 100 x 75 x 0,8mm thick rectangular fluted downpipes to 2500L horizontal RWHT.

VENT PIPE
110mm white uPVC pipes painted black fixed firmly to outside wall with adequate brackets @ max. of 500mm. Vent Pipes at to be 500mm from highest point of roof and fitted with ventilated cap & fly proof netting.



sanitary schedule

Pit WC:	As per details. VIP 450 Pit Pedestal (unit code: 237 AP), or similar approved.
DA Person' WHB	As per detail or similar approved.
Wash Trough	1070mm wide precast concrete wash through.

SECTION C:C
TOP STRUCTURE
scale 1:50

FLOOR CONSTRUTION
Granolithick floor finish on Powerfloated 85mm thick concrete surface bed on 250 micrion Gunplas USB green waterproof membrane on 50mm sand blinding on well compacted clay free earth fill, and FINAL details to Engineer' specifications.

FASCIA
medium density plain ungrooved fascia boards, size 225 x 12mm thick, fixed to 114 x 38mm support battenfixed between steel structure.Screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.

BARGE BOARD
85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.

INTERNAL CILLS
150 x 15mm thick fibrecement cill fixed with standard galvanised lugs screwed to underside of cill and cast into mortar bed in compliance with manufactures specification.Cills to have top arris and coners sanded down to produce an even chamfer.

EXTERNAL CILLS
facebrick on edge with 375 micron brickgrip dpc underneath the cill.

WALLS
Damp proof coursing: to be gunplas black brickgrip or equal and approved 375 micron dpc, lapped minimum 150mm at all joints, and similarly lapped over green under-floor damp proof membrane.

DPC'S at door reveals (in cavity construction): minimum 150mm wide, to be tucked into side of door and window frames and sandwitched in mortar between outer, facebrick skin and cavity closer and to overlap lintol and cill DPC'S.

DPC'S at lintols: to be inserted above all windows, stepped up one course and built into inner skin coursing with mortar fill under all as detailed.

External / load bearing walls: to have galvanised brickforce reinforcing at 4 course intervals built into bed joints. Door heads to be reinforced to 3 course above openings, and at 3 course intervals thereafter.
N.B. Brickforce reinforcing strips to be built in isolation into the appropriate brick skin and must not be used to tie the inner and outer skins of the cavity together.

External brickwork generally: 85mm brick guage with maximum 10mm deep tooled, half-round horizontal and vertical joints all laid in compo mortar comprising 1 part cement: 1/4 part cape lime company plastic, pressure hydrated lime: 6 parts sand with open perpends forming weepholes as specified.

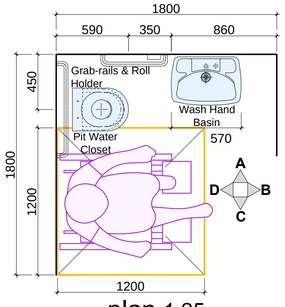
Internal brickwork generally: to be laid in compo mortar comprising 1 part cement: 1 part cape lime company plastic, pressue hydrated lime: 6 parts sand.

GRANO
40mm STEEL Trowelled, untinted granolithic screed comprising 4 parts granite, 1 part sand and 2 parts cement laid on concrete surface beds / r.c. Brashed Finish.

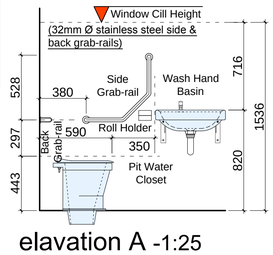
SKIRTING
Form 70mm high un-tinted granolithic skirting by turning the granolithic floor finish up against the walls and other vertical surfaces, hollow rounding the granolithic at junction with floors and finishing the top edge perfectly straight.

GENERAL
Black rubber door stop, 32mm, plugged and screwed to wall.

DISABLED PERSON' ABLUTION FACILITY



plan-1:25



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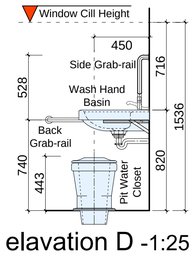

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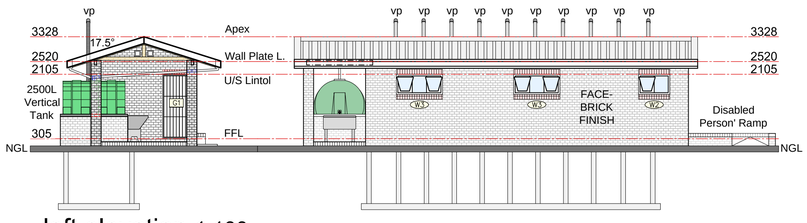

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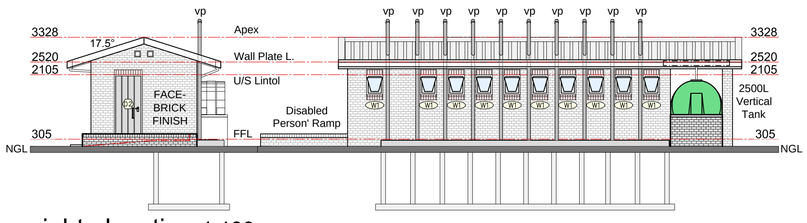

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A1

GENERAL NOTES:

1: FIGURED DIMENSIONS TO TAKE PREFERENCE OVER SCALED DIMENSIONS. ANY ERRORS, OMISSIONS OR DISCREPANCIES PERTAINING TO DIMENSIONS, LEVELS OR POSITIONS AS SHOWN ON THE DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

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DRAINAGE NOTES:
ALL DRAINAGE TO COMPLY WITH SABS 0400, SECTION P, PART 3.

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DATE:	REVISIONS:	

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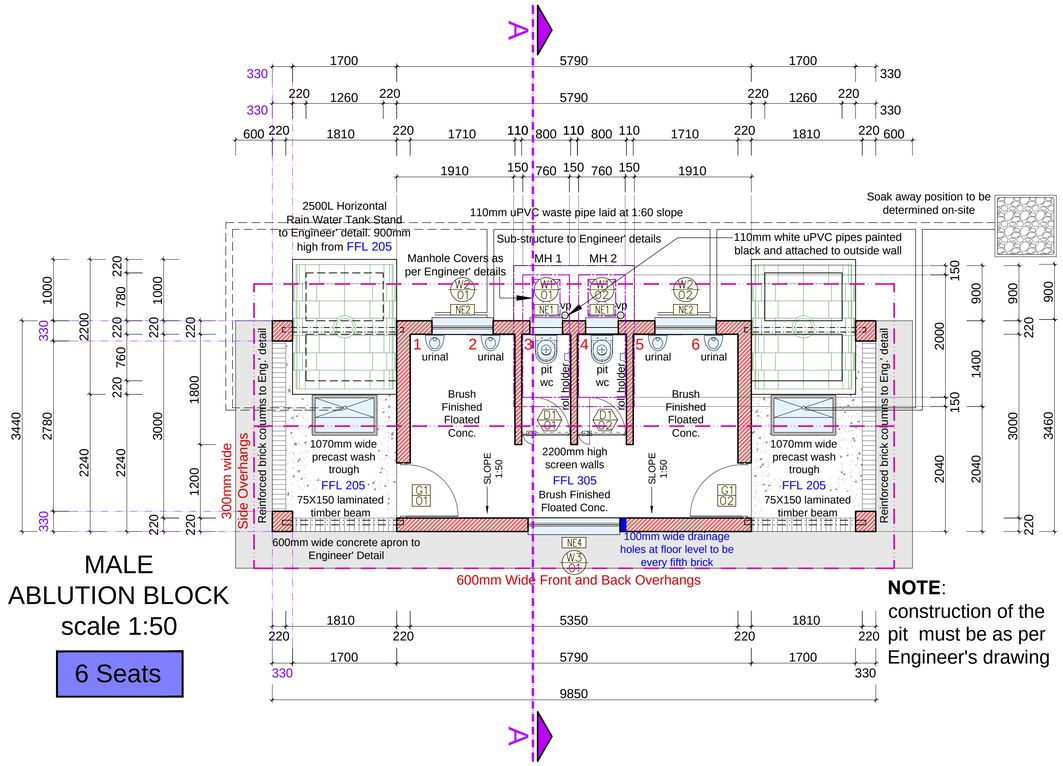
PROJECT:
VUKAYIBAMBE SSS
Provision of Emergency Temporal Classrooms & Ablutions
Ngcobo

DRAWING TITLE:
10 SEATS

DRAWING DESCRIPTION:
FEMALE ABLUTION BLOCK
Floor Plan, Section, Elevations & Details

PAPER SIZE:	MONTH DRAWN:
A1	APRIL 2017
DRAWN BY:	ISSUE DATE:
FN	04 APR 2017
SCALE:	REVISION NUMBER:
As shown	00

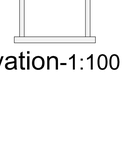


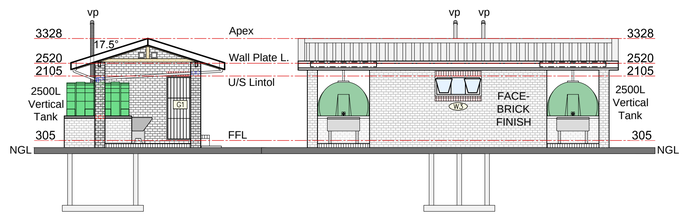
MALE
ABLUTION BLOCK
scale 1:50

6 Seats

NOTE: construction of the pit must be as per Engineer's drawing

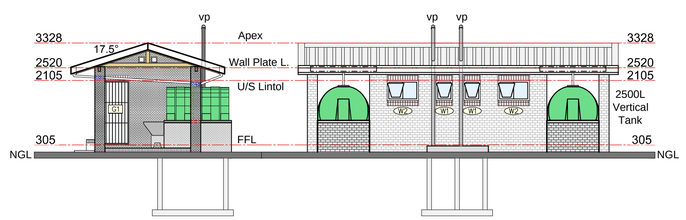
Window and Door Schedule - scale 1:50

WINDOWS	WINDOW 1	WINDOW 2	WINDOW 3
			
Description:	533 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE1 with 20 x 5mm hot-dipped galvanized flat bar to open sections	1022 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE2 with 20 x 5mm hot-dipped galvanized flat bar to open sections	1511 x 654mm hot-dipped galvanized steel residential top hung unit. Unit code NE4 with 20 x 5mm hot-dipped galvanized flat bar to open sections
Finish:	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.	Clean with galvanized iron cleaner. 1 x galvanized iron primer coat and 2 x coats of approved gloss enamel paint.
Glazing:	4mm Opaque Glass with Steel Window Putty	4mm Opaque Glass with Steel Window Putty	4mm Opaque Glass with Steel Window Putty
Ironmongery	Factory Fitted - Standard Brass Fittings	Factory Fitted - Standard Brass Fittings	Factory Fitted - Standard Brass Fittings
DOORS	DOOR 1	GATE 1	
			
Description:	760x1680mm high, prepainted "golden brown" formed of 19x19mm tubular steel framing and middle ledge welded at angles and intersections, covered on one side with 0.6mm galvanised sheeting pressed to shape with edges lapped around and rivetted to frame at 300mm centres, with slot for and including 25mm diameter x 2120mm long pivot pipe support welded on, with 150x75x3mm bottom	Painted mild steel gate consisting of 12mm diameter steel rods placed at 109 mm centers as per detail.	
Finish:		1 x coat zinc chromate primer and 2 x approved coats of gloss enamel (exterior quality)	
Ironmongery	bearing bolted to floor with 3x6mm diameter bolts, 150x38x3mm top bearing bolted to beam and finishing smooth on all exposed edges, complete with all fixing brackets, bolts etc.	Padlock as per detail.	
Frame:		25 x 25 x 2mm mild steel square tube welded to form frame.	
Finish:		1 x coat zinc chromate primer and 2 x coats of approved enamel (exterior quality)	



left elevation-1:100

front elevation-1:100



right elevation-1:100

back elevation-1:100

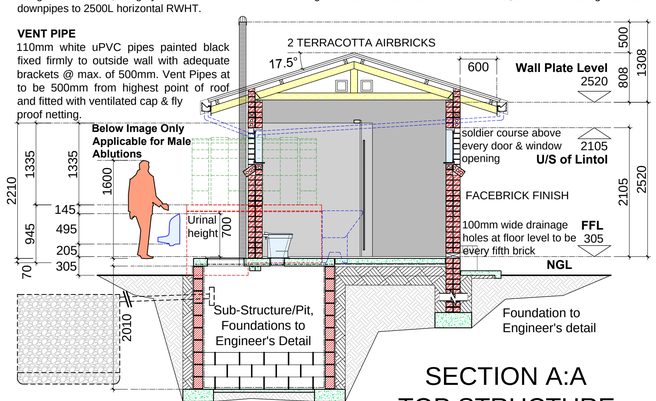
ROOF
Factory painted 0.558 IBR profile roof sheeting @ 17.5°, on 50x76mm S.A. pine purlins fixed to rafters @ 750 mm c/c spacings, on prefabricated timber trusses @ max. of 1200mm c/c spacing on 38x114 S.A. pine timber wallplates in long lengths, half lapped & spiked at joints with gangnail plates, bedded on cement mortar & leveled before tieing down to walls with 1,6 mm thick galvanised hoop iron, 32mm wide into min. of 5 courses into brickwork & tied around tie-beam, rafter or additional purlin as convenient, and fixed with four galvanised nails, 40 mm long. **NOTE: Roof construction to be done by specialist as per truss designer's specification & approval.** On-site the roof trusses must be placed on evenly laid pallets, covered & protected against weather. Hurricane Clips fixed with permix nails or bolts through pre-drilled holes at covered verandah/ tank stand area must be provided for.

CARBOLINEUM WOOD PRESERVER
All exposed structural timber is to receive two coats carbolineum. Timber must be dry and carbolineum applied to the entire roof trusses before the application of roof sheets.

RIDGE
450mm girth with roll top and bent down edges, galvanised metal ridge capping with 225mm lapping. final colour to match roof sheet covering.

GUTTER / DOWNPIPE
150 x 100 x 0,5mm thick pre-coated zincalume seamless gutter, including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by nail fixed internal aluminium hangers at 500mm centres with 100 x 75 x 0,8mm thick rectangular fluted downpipes to 2500L horizontal RWHT.

VENT PIPE
110mm white uPVC pipes painted black fixed firmly to outside wall with adequate brackets @ max. of 500mm. Vent Pipes at to be 500mm from highest point of roof and fitted with ventilated cap & fly proof netting.



SECTION A:A
TOP STRUCTURE
scale 1:50

sanitary schedule

Pit WC:	As per details. VIP 450 Pit Pedestal (unit code: 237 AP), or similar approved.
Urinal:	Atlas Granite Bowl Urinal (unit code 507 AP) coupled with Atlas Waterless Urinal Waste Fitting (unit code: 496 AP)
Wash Trough	1070mm wide precast concrete wash through.

FLOOR CONSTRUTION
Granolithick floor finish on Powerfloated 85mm thick concrete surface bed on 250 micrion Gunplas USB green waterproof membrane on 50mm sand blinding on well compacted clay free earth fill, and FINAL details to Engineer' specifications.

FASCIA
medium density plain ungrooved fascia boards, size 225 x 12mm thick, fixed to 114 x 38mm support battenfixed between steel structure.Screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.

BARGE BOARD
85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.

INTERNAL CILLS
150 x 15mm thick fibrecement cill fixed with standard galvanised lugs screwed to underside of cill and cast into mortar bed in compliance with manufactures specification.Cills to have top arris and coners sanded down to produce an even chamfer.

EXTERNAL CILLS
facebrick on edge with 375 micron brickgrip dpc underneath the cill.

WALLS
Damp proof coursing: to be gunplas black brickgrip or equal and approved 375 micron dpc, lapped minimum 150mm at all joints, and similarly lapped over green under-floor damp proof membrane.

DPC'S at door reveals (in cavity construction): minimum 150mm wide, to be tucked into side of door and window frames and sandwitched in mortar between outer, facebrick skin and cavity closer and to overlap lintol and cill DPC'S.

DPC'S at lintols: to be inserted above all windows, stepped up one course and built into inner skin coursing with mortar fill under all as detailed.

External / load bearing walls: to have galvanised brickforce reinforcing at 4 course intervals built into bed joints. Door heads to be reinforced to 3 course above openings, and at 3 course intervals thereafter.
N.B. Brickforce reinforcing strips to be built in isolation into the appropriate brick skin and must not be used to tie the inner and outer skins of the cavity together.

External brickwork generally: 85mm brick guage with maximum 10mm deep tooled, half-round horizontal and vertical joints all laid in compo mortar comprising 1 part cement: 1/4 part cape lime company plastic, pressure hydrated lime: 6 parts sand with open perpends forming weepholes as specified.

Internal brickwork generally: to be laid in compo mortar comprising 1 part cement: 1 part cape lime company plastic, pressue hydrated lime: 6 parts sand.

GRANO
40mm STEEL Trowelled, untinted granolithic screed comprising 4 parts granite, 1 part sand and 2 parts cement laid on concrete surface beds / r.c. Brashed Finish.

SKIRTING
Form 70mm high un-tinted granolithic skirting by turning the granolithic floor finish up against the walls and other vertical surfaces, hollow rounding the granolithic at junction with floors and finishing the top edge perfectly straight.

GENERAL
Black rubber door stop, 32mm, plugged and screwed to wall.

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DATE:	REVISIONS:	

CLIENT:

idt independent development trust

PROFESSIONAL SERVICE PROVIDER:

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PROJECT:
VUKAYIBAMBE SSS
Provision of Emergency Temporal Classrooms & Ablutions
Ngcobo

DRAWING TITLE:
6 SEATS

DRAWING DESCRIPTION:
MALE
ABLUTION BLOCK
Floor Plan, Section, Elevations & Details

PAPER SIZE: A1	MONTH DRAWN: APRIL 2017
DRAWN BY: FN	ISSUE DATE: 04 APR 2017
SCALE: As shown	REVISION NUMBER: 00

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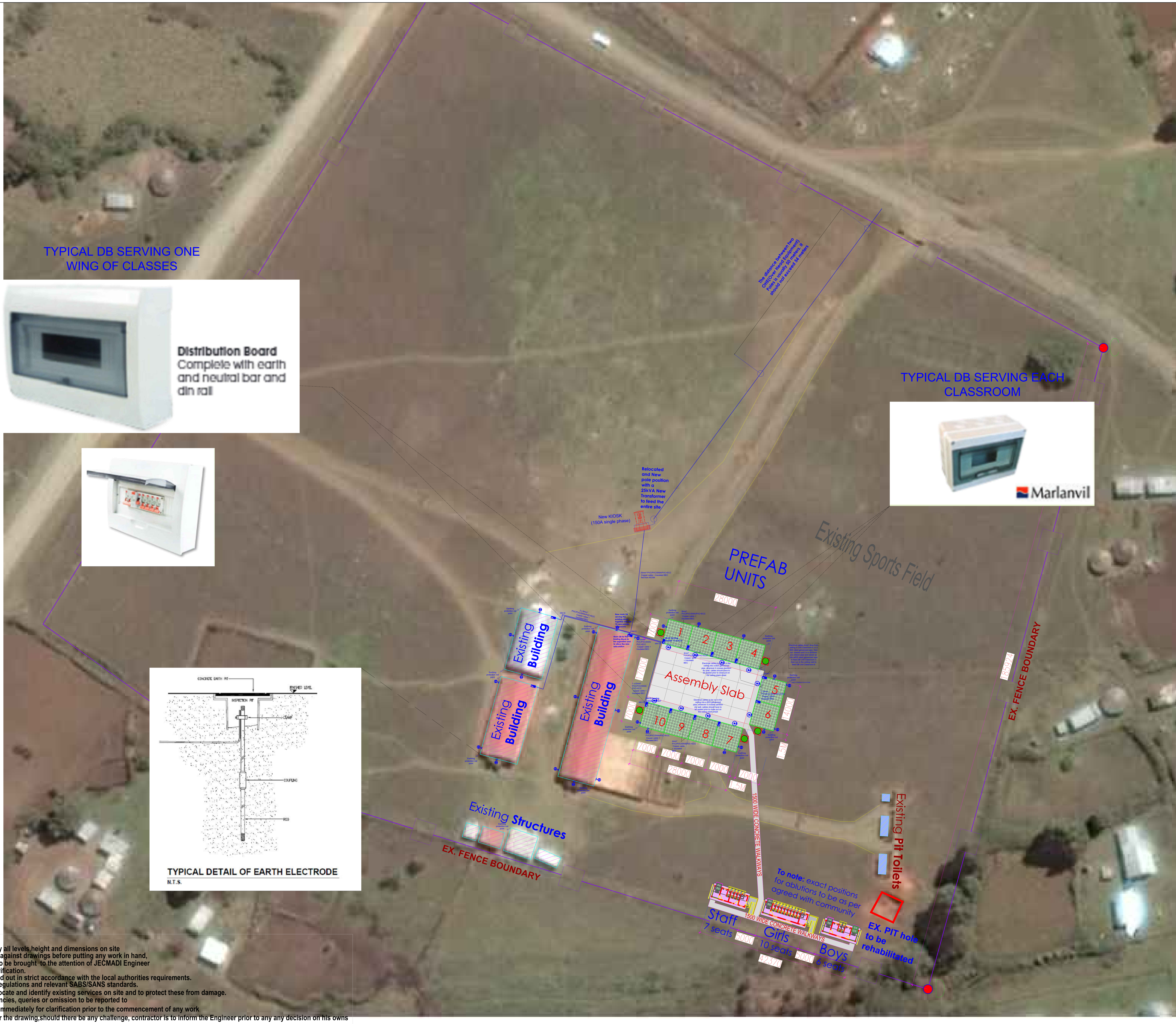

IMPORTANT NOTE:
Contractors to verify all levels,height and dimensions on site and to check same against drawings before putting any work in hand, any discrepancies to be brought to the attention of JECMADI Engineer immediately for clarification.
all work to be carried out in strict accordance with the local authorities requirements.
National Building Regulations and relevant SABS/SANS standards.
Contractors are to locate and identify existing services on site and to protect these from damage.
any errors discrepancies, queries or omission to be reported to JECMADI Engineer immediately for clarification prior to the commencement of any work
Cable route is as per the drawing,should there be any challenge, contractor is to inform the Engineer prior to any any decision on his owns

ELECTRICAL LEGEND

- 1 x 26W CFL Wall mounted light,BEKA Serie 32
- 1x 26W CFL Bulkhead,BEKA Serie 31
- Electrical Distribution Board
- Reticulation/cable route
- Man hole (MNH 03)
- F1A — Standard open channel Fluorescent Light fitting C/W 2x35w Lumilux cool white T5, higher efficiency.
- Earth termination system

NOTES: LIGHTNING PROTECTION GENERAL NOTES

As shown, based on architectural layout configuration, each block requires number of copper rods, number of down conductors, number of earth pits. However the active lightning system is the only possible method to protect from direct lightning strokes. We recommend to use the active lightning protection whenever the conventional solution is inconvenient or when the former is more preferable to the latter as in the case of the efficient protection of architect

Contractor/ Installer will have to fully comply with the **SANS-10132** and **all regulations** relative to lightning and protection of a building.

The Contract shall include for the supply and installation of all necessary components to provide a complete lightning protective system to each building block structure as detailed in the following Specification Sections in order that the building(s) may be protected against the effects of a lightning discharge in accordance with British Standard BS.6651.

The installation shall comprise air networks connected to roof and down conductors and finally terminated in earth electrodes, at a **suitable test points** in accordance with the details drawings or in the following Specification Section.

Lightning protection system should include all of the following elements, which work together to prevent lightning damage.

1. Air Terminals (Lightning Rods)
2. Braided Conductor (Cable)
3. Bonds to metallic bodies
4. Ground Rods or Ground Plates
5. Surge Arrestors

Lightning Protection Earth Reference Pits

Certain individual down conductors shall be effectively bonded to suitable 3.60m long by 16mm diameter earth rods manufactured from hard drawn copper rod in the form of 1.20m sections. Each section shall be complete with internal screws and socket. The earth reference electrode shall be installed not more than 1.00m away from the building with the earth reference electrode head located not less than 500mm below the ground level. Final connection of the down conductor to the earth reference electrode shall be made by means of a pressure type connector clamp.

The Contract shall include for the supply and delivery of inspection pits manufactured as detailed in the attached Specification Section and/or drawings, these to be handed over to the contractor for installation. An inspection pit shall be supplied for each earth termination. Heavy duty covers suitable to withstand vehicular traffic shall be provided for pits located in the roadway areas. The lid of each pit shall be lockable and jam free construction and supplied with the appropriate key.

Where electrode points are located internally within building floor slabs they shall comprise a suitable earth rod water seal installed in the base of a pocket formed in the slab, with the pocket and associated cover.

The body of each earth pit shall as a minimum comprise shatter-proof, lightweight, polymer material with a high resistance to chemical damage from such substances as petrol, oil, diesel, bitumen etc. Each unit shall include high ultra-violet stability, wide temperature application and earth bar facility (where necessary) to permit multiple earth tape connections to be made. Where these are not suitable concrete pits shall be provided.

REV.:	DATE:	COMMENT:
0	19-06-2017	FOR CONSTRUCTION

NOTES:

CLIENT: idt independent development trust

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PROJECT NAME: **VUKAYIBAMBE SSS**
Provision of Emergency Temporal Classrooms & Ablutions
District: Mbizana

DRAWING TITLE:

SITE LAYOUT/ ELECTRICAL RETICULATION

TYPICAL ZONING:

Drawn by:	T.N
Checked by:	T.N
Signature:	201370365
Project No.:	JCM-16/2017
Drawing No.:	EL-01

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