

LINGELETHU JPS
DRAWINGS

ARCHITECTURAL DRAWINGS











-  PROPOSED NEW BUILDINGS
-  PROPOSED FUTURE BUILDINGS
-  EXISTING BUILDINGS (FUTURE DEMOLISH)
-  EXISTING FENCE
-  NEW FENCE
-  SITE BOUNDARY
-  SITE ESTABLISHMENT BOUNDARY
-  EXISTING BUILDING
-  PLANTS & TREES
-  ENTRANCE GATE

TABLE: SUMMARY FOR SCOPE OF WORKS: LINGELETHU P. SCHOOL

TABLE 2A: NEW WORKS

NO	BUILDING USAGE	AREA	SIZE
1.	Grade-R	199m ²	2 Classroom - Large Block
2.	Grade-R Ablutions	36m ²	6 + 1 Disabled

TABLE: SUMMARY FOR HUMAN CAPITAL: LINGELETHU P. S.

TABLE 1A: GRADE ENROLMENT FIGURES FOR 2023

GRADES	NUMBER OF PUPILS		
	BOYS	GIRLS	TOTAL
R	20	17	37
SCHOOL	BOYS	GIRLS	TOTAL
1	29	23	52
2	20	13	33
3	18	17	35
4	19	22	41
5	19	16	35
6	18	22	40
7	24	28	52
SCHOOL GRAND TOTALS	167	158	325

TABLE 1B: STAFF

MALE	FEMALE	TOTAL
3	6	9

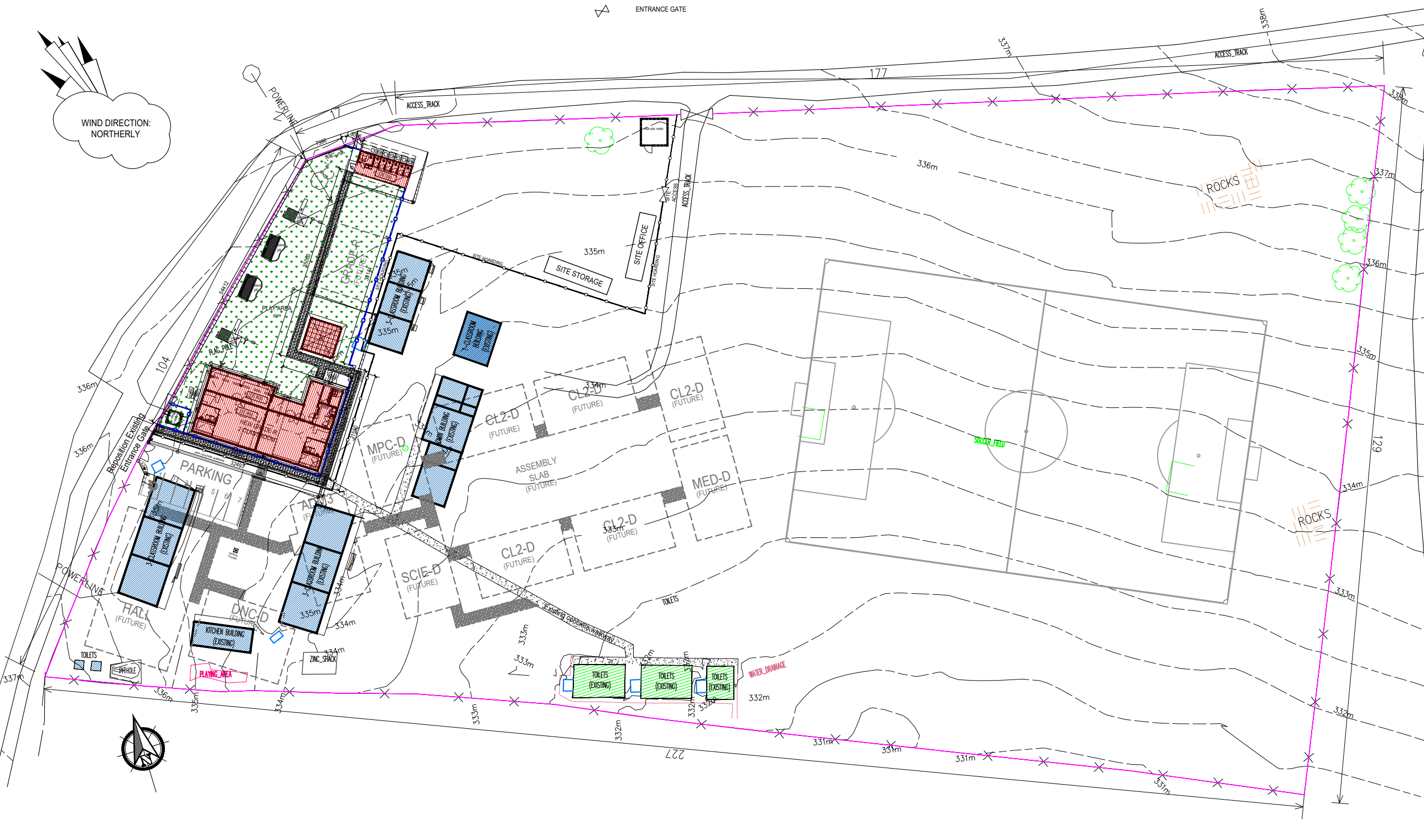
NO.	DATE	REVISION	DRAWN

NOTES

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All structural drawings to be read in conjunction with the Engineer's drawings

CONSULTANTS




ARCHITECT

 Dingaan & Associates Architects
21 St James Road
Southernwood
East London
5201

DINGAAN & ASSOCIATES architects
Tel: 043 722 3858
Fax: 043 722 3797
E-mail: info-dingaan@telkomsa.net

IMPLEMENTED BY

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CHECKED: M. M.	05/2023	STATUS: DESIGN
VALIDATED: L. D.		STATUS: CONSTRUCTION
		STATUS: AS-BUILT

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PROJECT
LINGELETHU JUNIOR PRIMARY SCHOOL,
MBIZANA, EASTERN CAPE

DRAWING TITLE
SITE DEVELOPMENT PLAN
MASTER PLAN

NO.	DESCRIPTION	DATE	STATUS	REVISION
200500413	A	EL31302 - 001	T	--

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








TABLE: SUMMARY FOR HUMAN CAPITAL: LINGELETHU P. S.

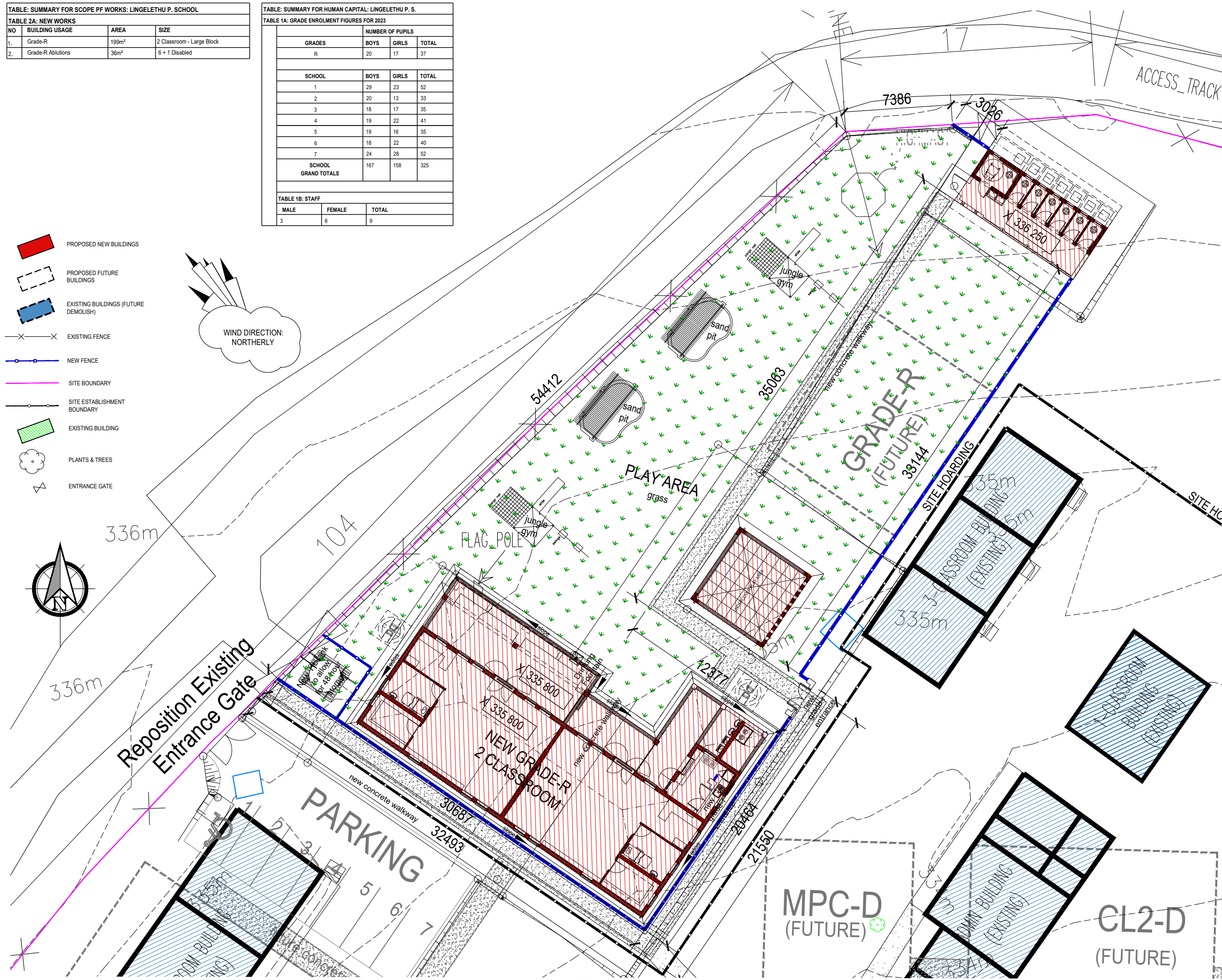
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East London
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Tel: 043 722 3858
Fax: 043 722 3797
E-mail: info-dingaan@telkomsa.net

DINGAAN & ASSOCIATES architects


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INDEPENDENT DEVELOPMENT TRUST

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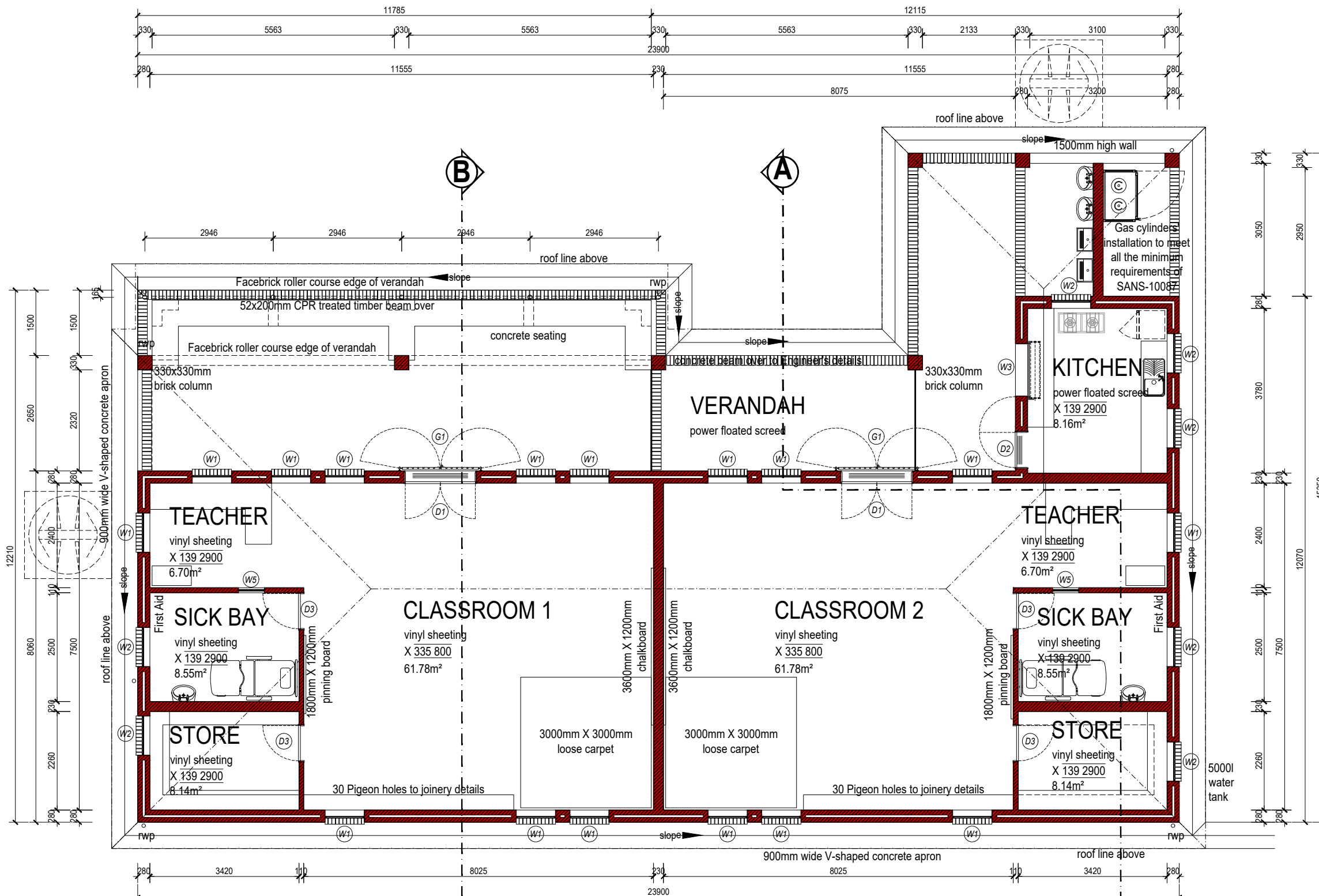


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DRAWING TITLE
SITE DEVELOPMENT PLAN
GRADE - R

NO.	DESCRIPTION	DATE	STATUS	REVISION
200500413	A	EL13/02 - 002	T	--



FLOOR PLAN - GRADE-R CLASSROOM

SCALE 1:100

FLOOR AREAS

GROSS: 107.90sqm
 NETT: 95.40sqm
 COVERED VERANDAH: 66.64sqm

Building Classification - A3
 Climatic Zone = 5
 Conductance = 1.4
 SHGC = 0.11

Max. Conductance = 95.40sqm x 1.4 = 133.56
 Max. SHGC = 95.40sqm x 0.11 = 10.49

6mm Laminated Clear-Low E^a safety glazing.

Default U = 5.73, SHGC = 0.66

Floor Area: 95.40sqm
 [15% = 14.31sqm]
 [5% = 4.77sqm]

FENESTRATION

Glazing Elements Area:
 W1 (900x1200mm-1.08) X 10 = 10.80m²
 W2 (900x900mm-0.81) X 3 = 2.43m²

TOTAL GLAZING AREA: 13.23m²

Glazing Area < 15% Floor Area = MINIMUM REQUIREMENTS SATISFIED

VENTILATION

W1 (900x1200mm) X 10 = 10.80m²
 50% Opening = 9.18m²

W2 (900x900mm) X 3 = 2.43m²

65% Opening = 1.58m²

W3 (1800x1200mm) X 1 = 2.16m²

D1 (1614x2032) X 1 = 3.28m²

TOTAL OPENING AREA: 16.20m²

Opening Area > 5% Floor Area = MINIMUM REQUIREMENTS SANS 10400-O (4.3.1) SATISFIED

INSULATION

Required:

Minimum Total R-Value for walls : 1.9 m².K/W
 Minimum Total R-Value for roof : 2.7 m².K/W

R-Value comparison in walls
 Cavity Clay Brick Wall (no insulation) = 0.82
 40mm Laminated Rigid Foam Board = 1.67

Total R-Value Insulated Wall = 2.49

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ARCHITECT

 Dingaan & Associates Architects
 21 St James Road
 Southernwood
 East London
 5201
 Tel: 043 722 3858
 Fax: 043 722 3797
 E-mail: info-dingaans@telkomsa.net

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DRAWING TITLE
 GRADE-R 1 CLASSROOM BLOCK
 FLOOR PLAN

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DINGAAN & ASSOCIATES ARCHITECTS

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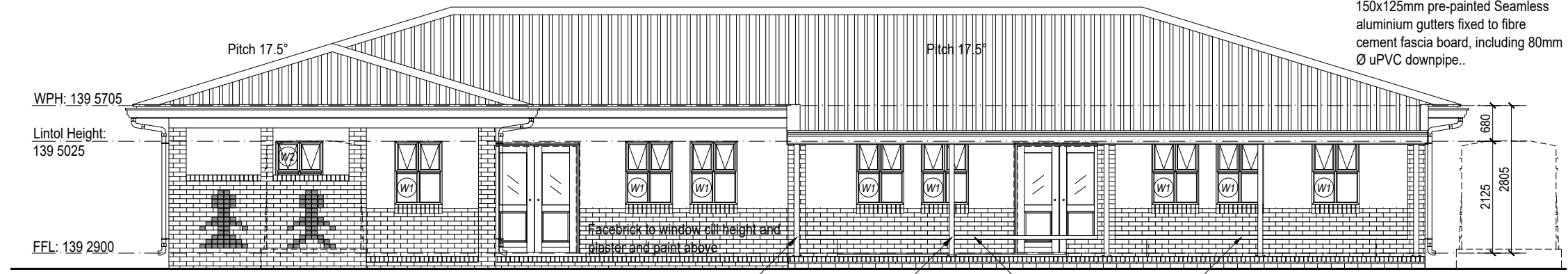
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GRADE-R 1 CLASSROOM BLOCK ELEVATIONS

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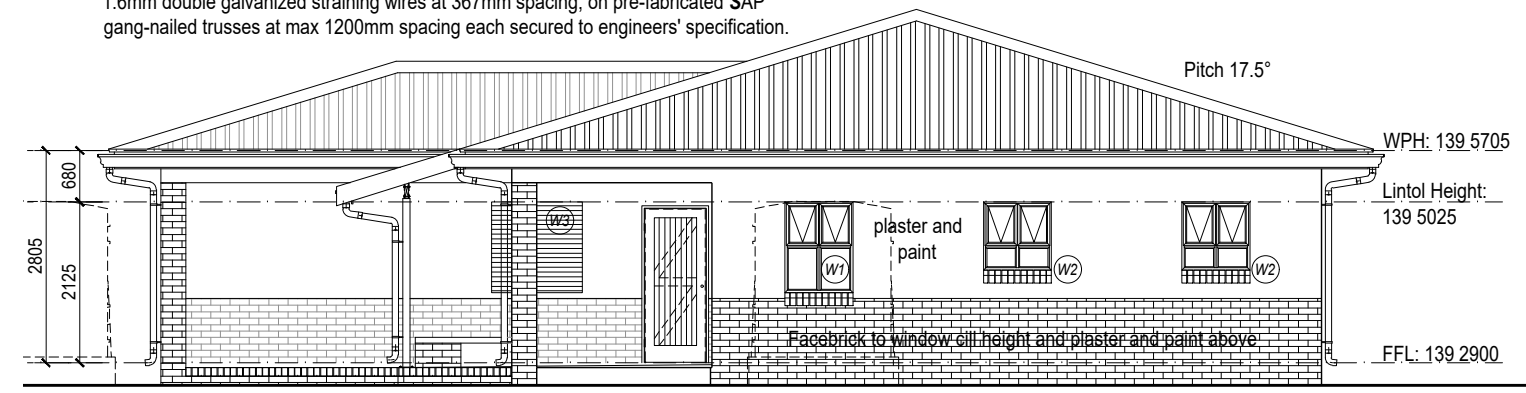
0.80 mm - ISQ230 IBR profile roof sheets with integral stiffening rib, on 50x75mm SA Pine purlins at approx. 1000mm spacing, on light double sided aluminium foil insulation, including 1.6mm double galvanized straining wires at 367mm spacing, on pre-fabricated SAP gang-nailed trusses at max 1200mm spacing each secured to engineers' specification.

150x125mm pre-painted Seamless aluminium gutters fixed to fibre cement fascia board, including 80mm Ø uPVC downpipe..

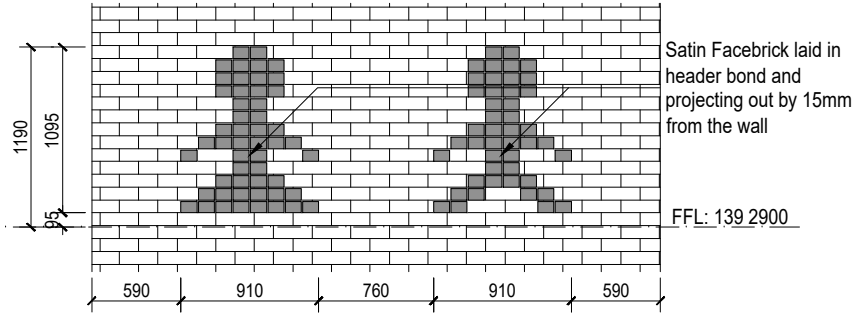


NORTH EAST ELEVATION
SCALE 1:100

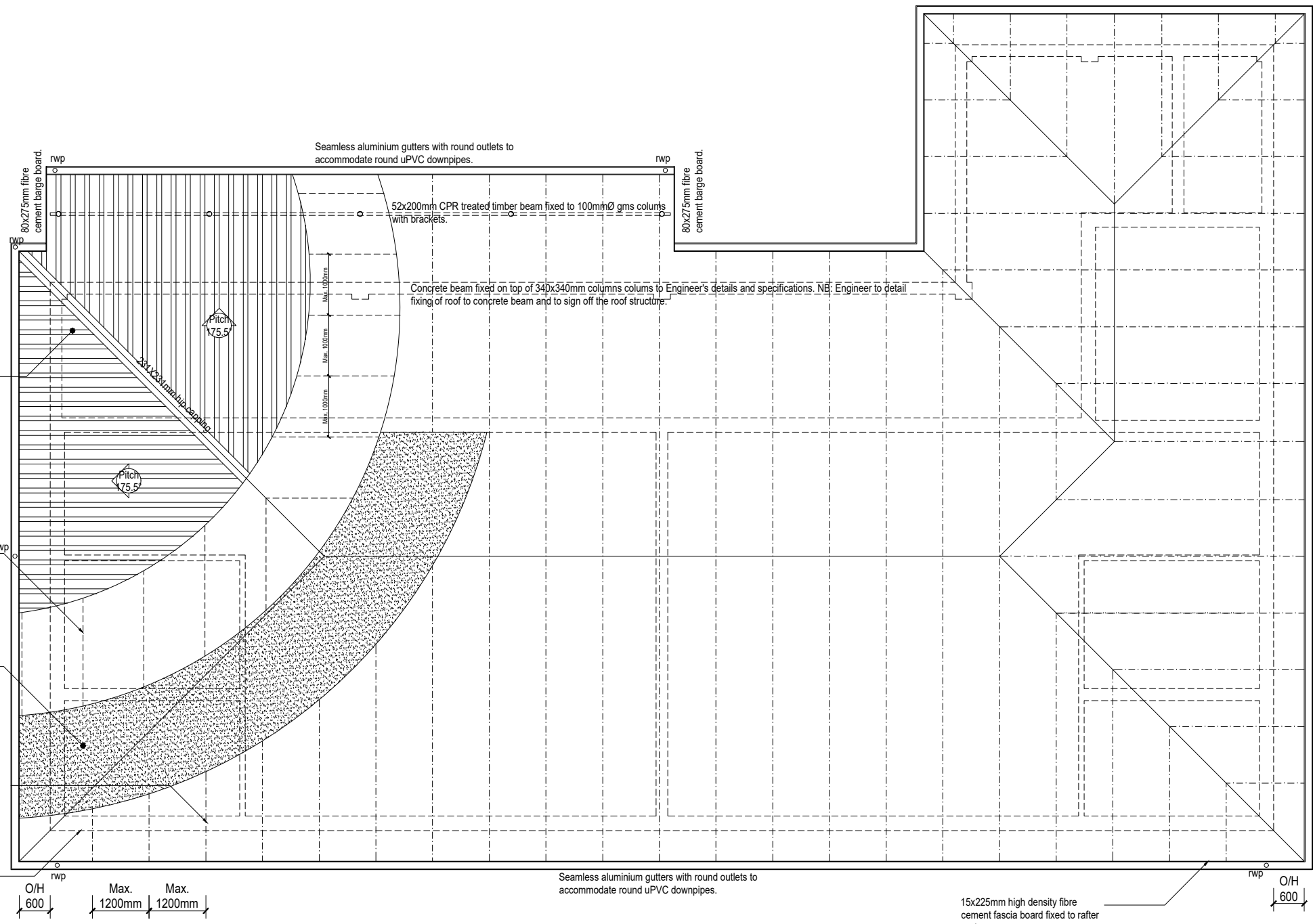
0.80 mm - ISQ230 IBR profile roof sheets with integral stiffening rib, on 50x75mm SA Pine purlins at approx. 1000mm spacing, on light double sided aluminium foil insulation, including 1.6mm double galvanized straining wires at 367mm spacing, on pre-fabricated SAP gang-nailed trusses at max 1200mm spacing each secured to engineers' specification.



NORTH WEST ELEVATION
SCALE 1:100



WALL ELEVATION
SCALE 1:50



0.80 mm - ISQ230 IBR profile roof sheets with integral stiffening rib, on 50x75mm SA Pine purlins at approx. 1000mm spacing, on light double sided aluminium foil insulation, including 1.6mm double galvanized straining wires at 367mm spacing, on pre-fabricated SAP gang-nailed trusses at max 1200mm spacing each secured to engineers' specification.

50x75mm SA Pine purlins at approx. 1000mm spacings max, on pre-fabricated SAP gang-nailed trusses at max 1200mm spacings each secured by means of 4mm galv. wire ties, on 114x38mm wall plate.

Roof Insulation - Light grammage, durable, double sided reflective foil laminate incorporating layers of aluminium foil, high strength kraft paper and reinforcing scrim bonded together with a binder. Insulation laid taut over purlins and fixed concurrent with roof covering; overlapped longitudinally by 150mm; on and including 1.6mm galvanised straining wire spaced at 367mm centres; all in strict accordance with the manufacturers specifications.

Pre-fabricated SAP gang-nailed trusses at max 1200mm spacings each secured on 114x38mm wall plate to engineers specification.

Outline of brickwork below

ROOF LAYOUT - GRADE-R 2 CLASSROOM

SCALE 1:100

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 21 St James Road
 Southernwood
 East London
 5201
 Tel: 043 722 3858
 Fax: 043 722 3797
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DRAWING TITLE
 GRADE-R 1 CLASSROOM BLOCK - ROOF PLAN

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		2. CORRECTION
		3. RE-DESIGN

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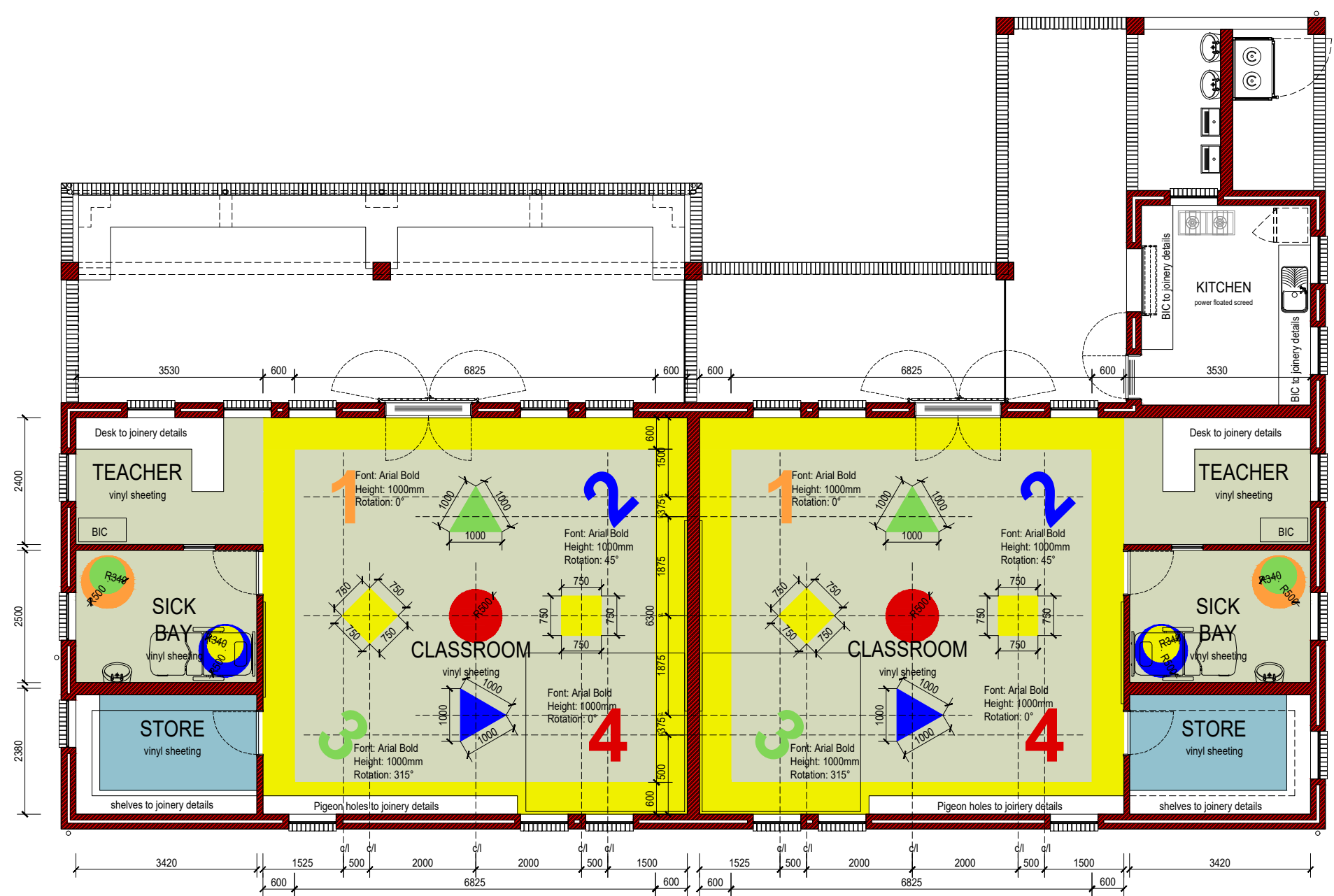
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DRAWING TITLE








GRADE-R 1 CLASSROOM BLOCK
TILING LAYOUT PLAN

NO.	DESCRIPTION	DATE	STATUS	REVISION
200500413	A	EL313/02 - TL01	T	--



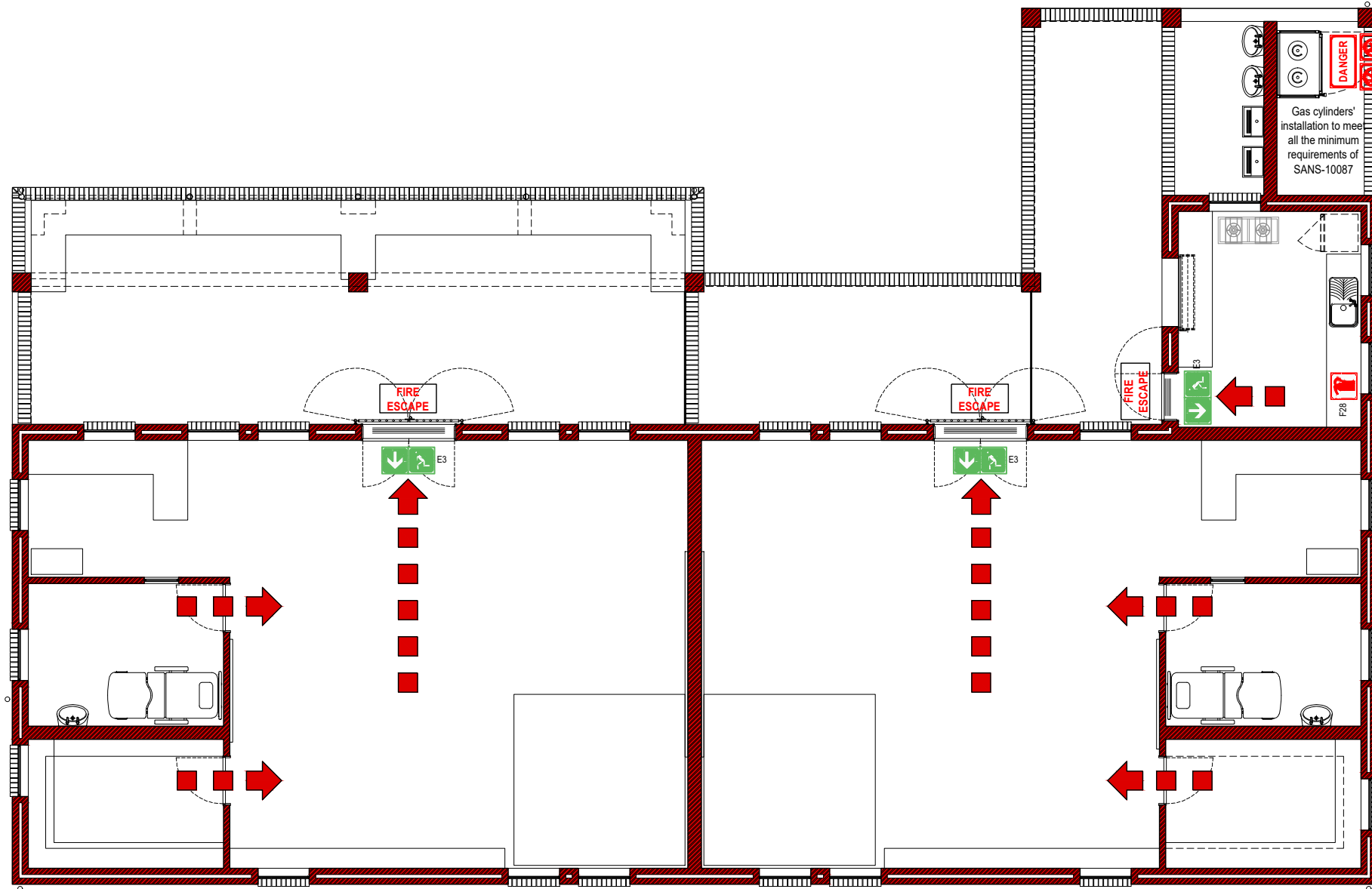
TILING LAYOUT - GRADE-R 2 CLASSROOM
SCALE 1:100

COLOR SCHEDULE

 Bianco 3480 (W/R 3480) or similar approved color.	 Giallo 3580 (W/R 3580) or similar approved color.
 Ametista 3500 (W/R 3500) or similar approved color.	 Azurite 3510 (W/R 1810) or similar approved color.
 Beola 3560 (W/R 3560) or similar approved color.	 Alpi 3620 (W/R 3620) or similar approved color.
 Corallo 3460 (W/R 3460) or similar approved color.	

Supply and fix 2.5mm thick x 1.2m wide fully flexible vinyl sheeting (SABS certified), manufactured in accordance with SANS 786 and laid in No. 62 acrylic adhesive which has been spread using a trowel fitted with an A2 notched blade at rate of between 5.5m² and 6.5m² per litre on a previously prepared Class 1 sub-floor in accordance with SANS 10070, (using Self Leveller when required), including all cutting and waste.

The sheeting must be rolled in both directions with an articulated 68kg three-sectional roller immediately after it has been laid into the adhesive. Joints must be butted, grooved and heat welded using matching Welding Rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness. The newly laid floor must, after 72 hours, be stripped using suitable vinyl floor Stripper, scrubbed using a diluted solution of Rinse and then sealed with 3 coats of Silk Matt or Gloss Sealer.



FIRE ESCAPE PLAN - GRADE-R CLASSROOM
SCALE 1:100

LEGEND

SYMBOL	DESCRIPTION
	ESCAPE ROUTE
	FIRE ESCAPE EXIT SIGNAGE
	FIRE EXTINGUISHER SIGNAGE AND POSITION
	NO SMOKING SIGN
	NO FIRE SIGN

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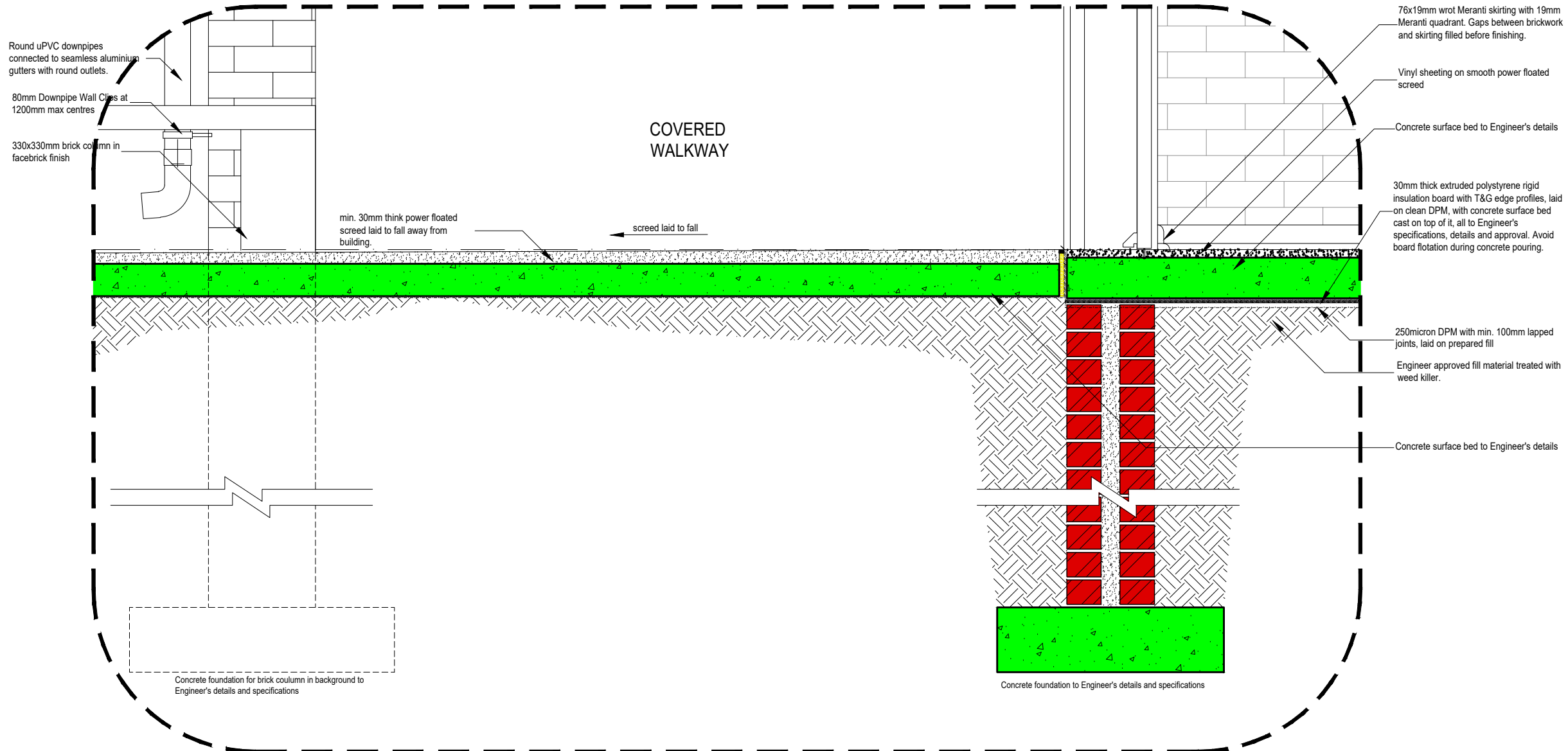
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LINGELETHU JUNIOR PRIMARY SCHOOL,
MBIZANA, EASTERN CAPE

DRAWING TITLE
GRADE-R 1 CLASSROOM BLOCK
FIRE ESCAPE PLAN AND SIGNAGE

NO.	DATE	REVISION	DRAWN
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DETAIL C
SCALE 1:15

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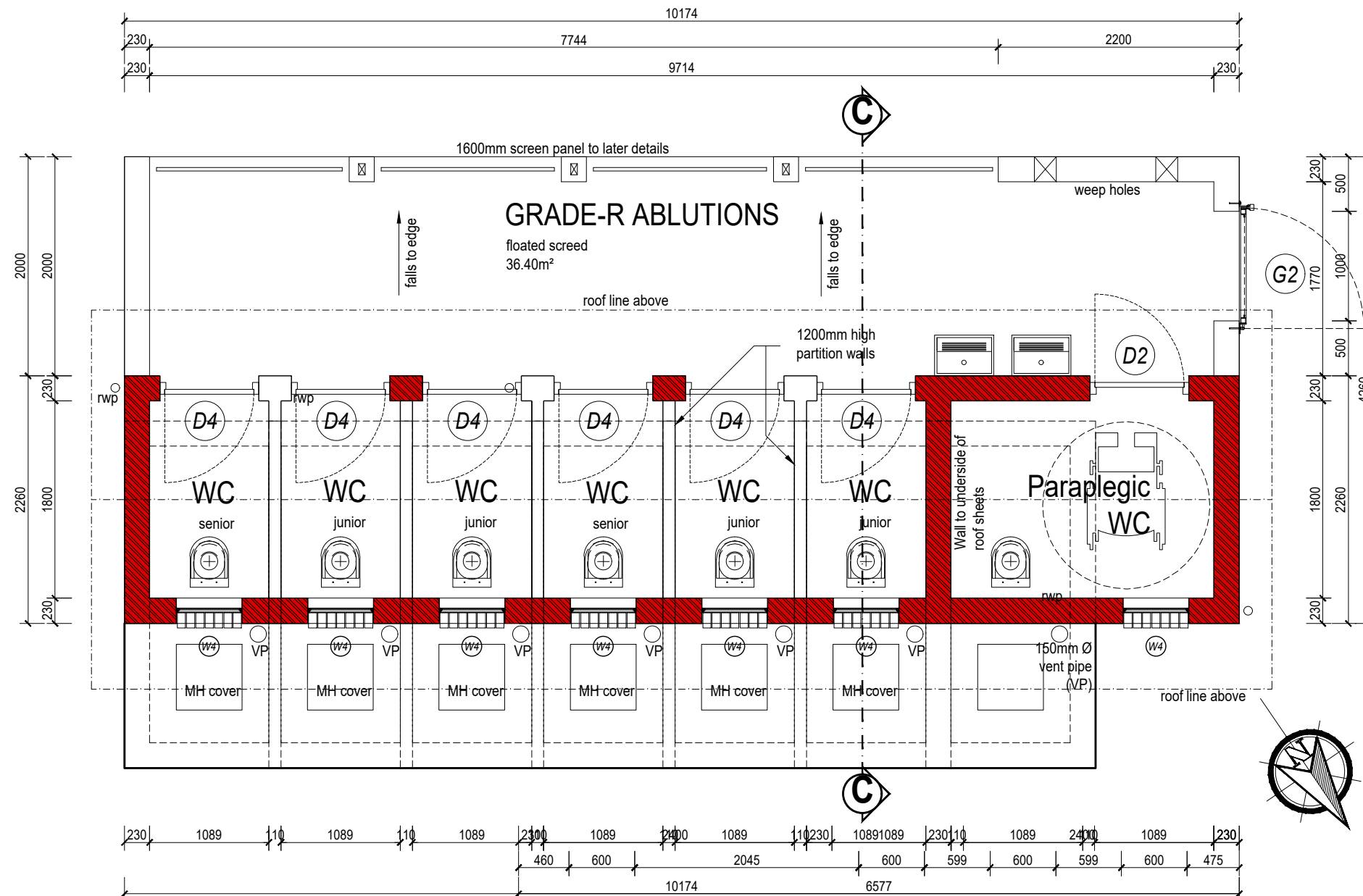
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DRAWING TITLE
GRADE-R 1 CLASSROOM BLOCK - DETAIL-C

NO.	DATE	REVISION	DRAWN

NO.	DATE	REVISION	DRAWN
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FLOOR PLAN - GRADE_R ABLUTIONS
SCALE 1:50


NO.	DATE	REVISION	DRAWN

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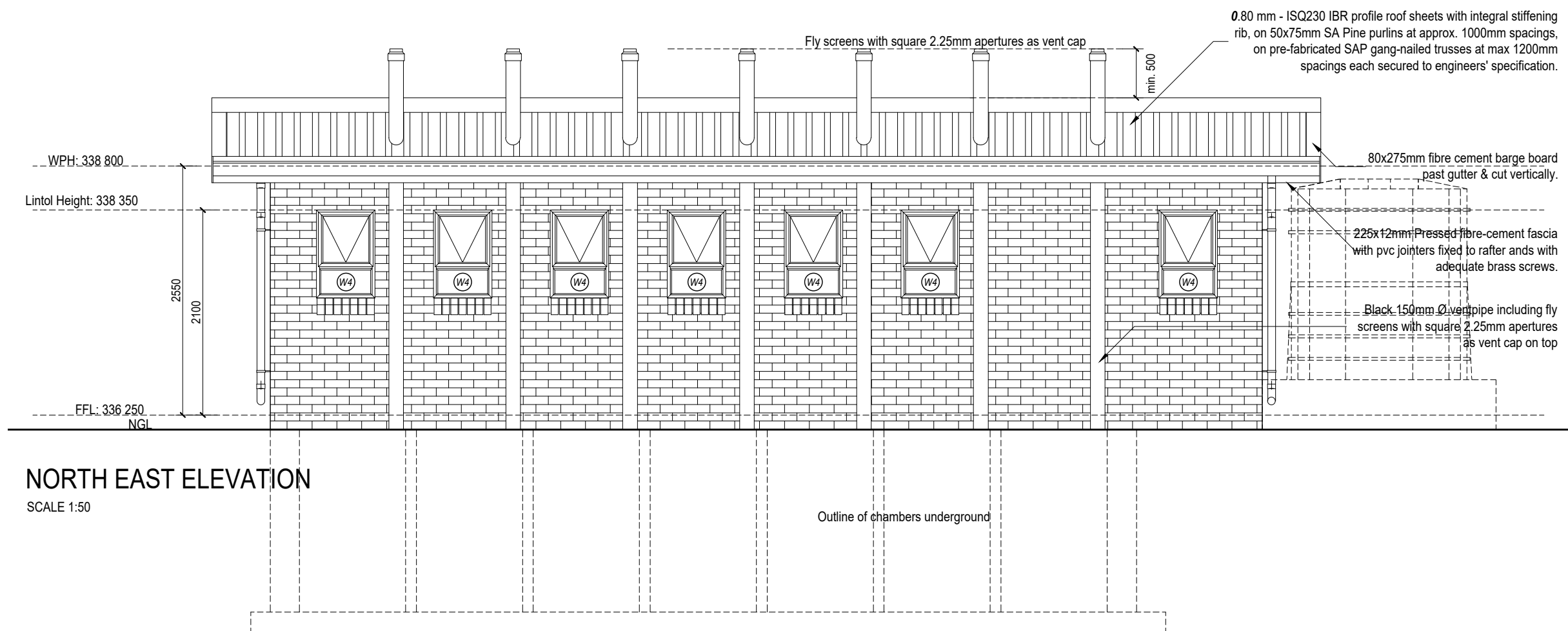
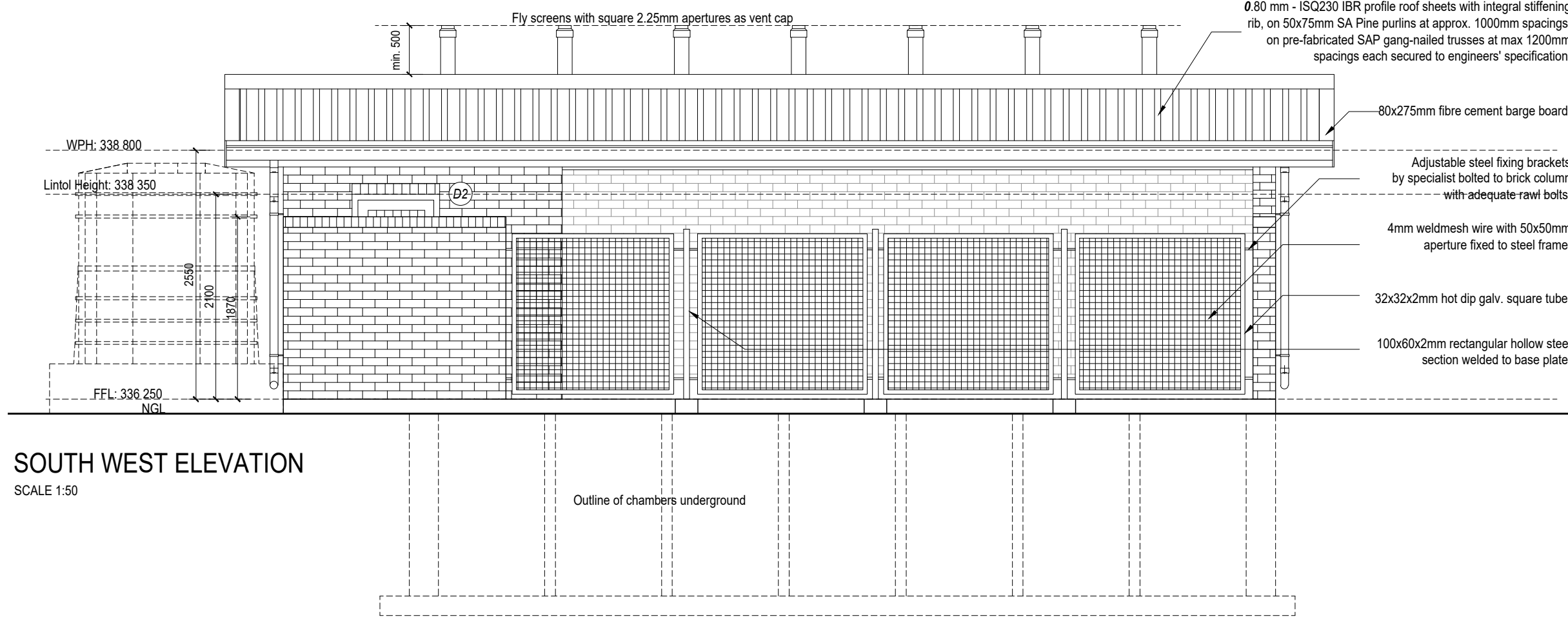
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DRAWING TITLE
 GRADE-R ABLUTIONS - PLAN

NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
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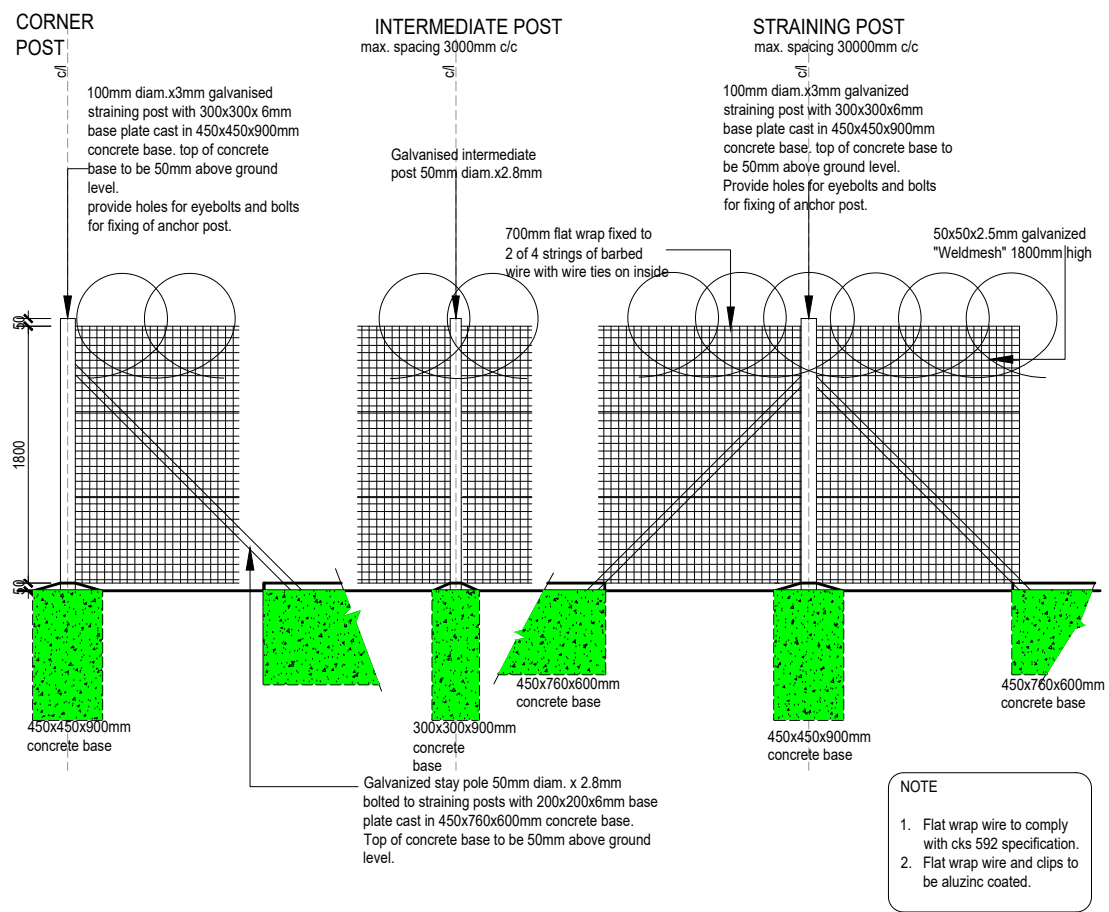
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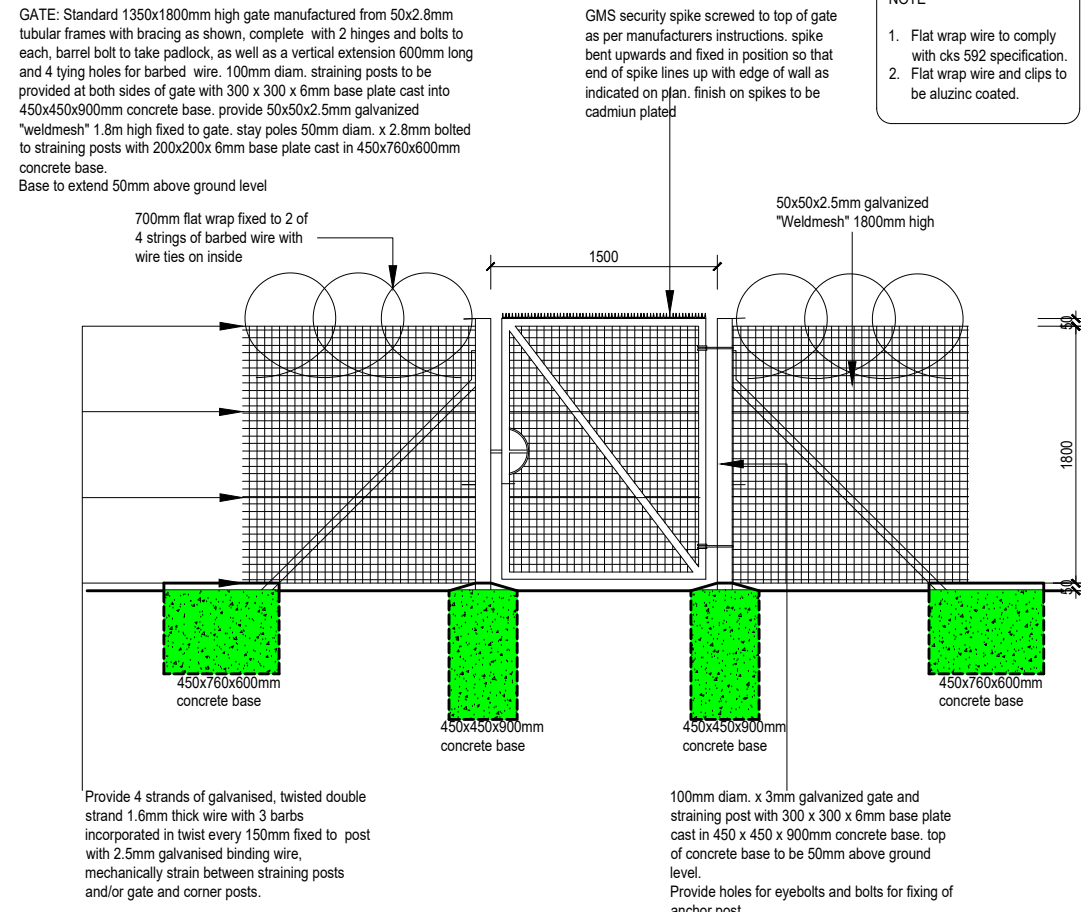
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DRAWING TITLE
GRADE-R ABLUTIONS - ELEVATIONS

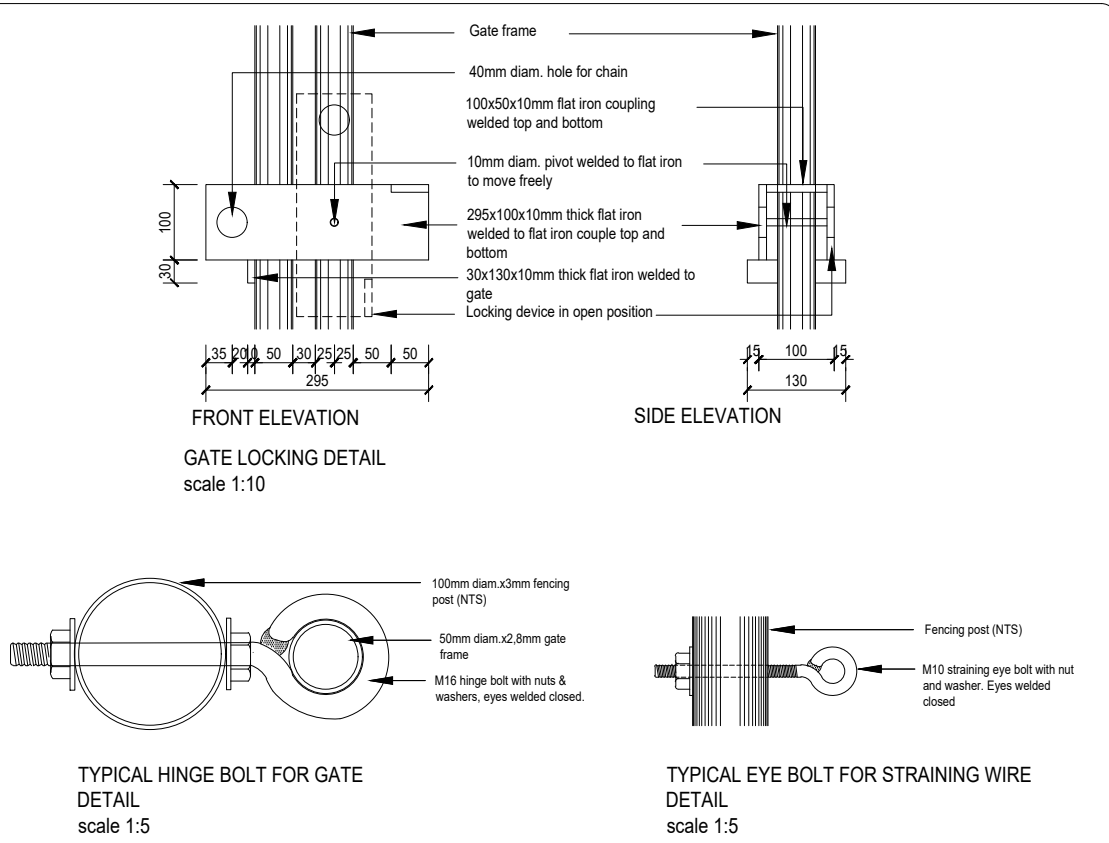
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TYPICAL FENCE DETAILS - scale 1:50



SINGLE SWING GATE DETAILS - scale 1:50



DETAILS - scale 1:10 / 1:5

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ARCHITECT

DINGAAN & ASSOCIATES ARCHITECTS
 21 St James Road
 Southernwood
 East London
 5201
 Tel: 043 722 3858
 Fax: 043 722 3797
 E-mail: info-dingaana@telkomsa.net

IMPLEMENTED BY



SIGNATURE	DATE	SHEET NO.
DESIGNED L. D.	07/2016	A3
DRAWN L. M.	07/2016	SCALE 1:5/10/50
CHECKED L. D.		STATUS LEGEND
VALIDATED L. D.		L. = LAYOUT D. = DIMENSION C. = CONSTRUCTION AS = AS BUILT

SPONSOR



PROJECT
 LINGELETHU JUNIOR PRIMARY SCHOOL,
 MBIZANA, EASTERN CAPE

DRAWING TITLE

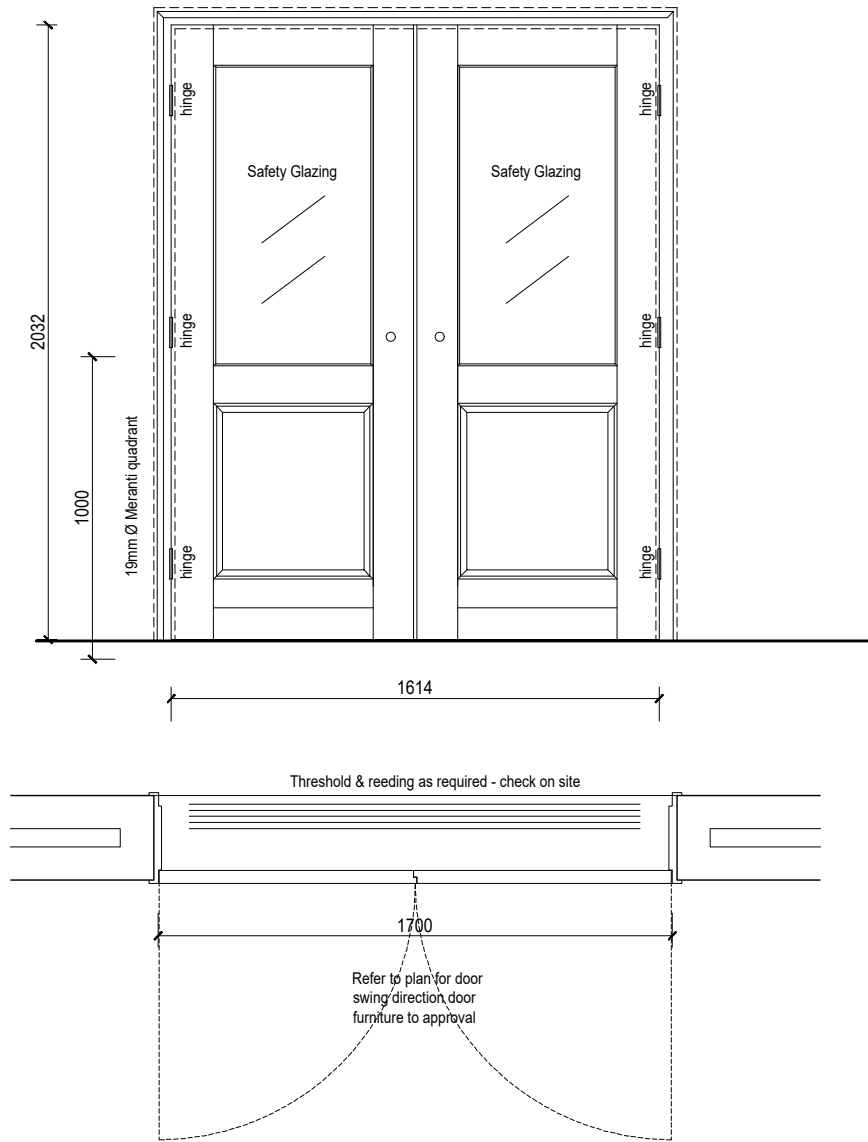
FENCING DETAILS

NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413	A	EL313/01 - FD01	T	--

Door Number
D1

Quantity
02

Location
CLASSROOMS



Frame Description

70 x 108mm Meranti door frame 13 x 45mm rebated to take door, with 19mm Ø timber quadrant trim, and hoop-iron tied into reveals. See plan for coupled doors.

Door Description

44x1614x2032mm high approved meranti fielded and paneled door, with 6mm safety glazing panel as indicated on drawing

Frame Finish

Sand down timber to an even, smooth finish & remove dust & dirt. Prepare, prime and apply under-coat & apply 2 coats high gloss enamel paint, color to later specification.

Door Finish

Sand down timber, remove dust and dirt and apply 2 coats approved UV resistant exterior varnish.

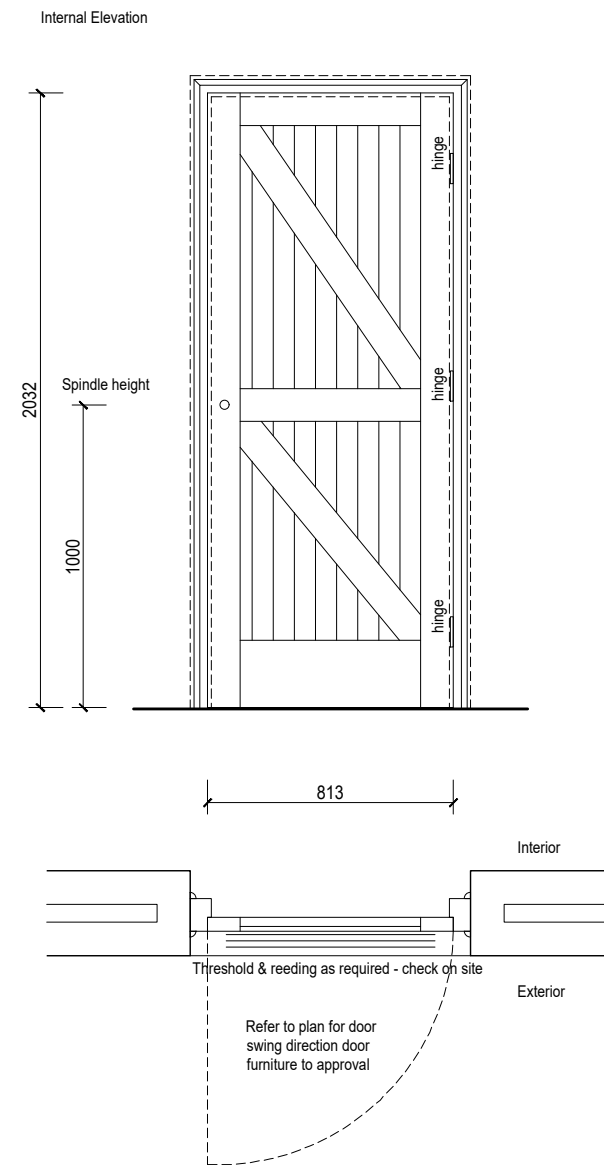
Door Furniture

3 pairs "Townsend" type 102N, or other approved, 100 x 75mm solid brass double washered butt hinges.
802 Double Panic Bolt with 8040 Panic Lock, or other approved, to Specialist details, suitable for double door with rebated meeting styles. Emergency escape equipment as per Specialist recommendations, to Architects approval. Rubber door stops

Door Number
D2

Quantity
2

Location
-KITCHEN
-ABLUTIONS



Frame Description

1.6mm Galv. mild steel pressed jamb lining with double rebates to suit 115mm brick wall No 3 x 100mm loose pin steel hinges to hanging style. As shown on elevation above No 3 x PVC buffers to closing style

Door Description

2032x813x44mm solid Meranti FLBB door with styles top, bottom & middle rails & diagonal bracing, T&G vertical boarding.

Frame Finish

Hot dip galvanised after fabrication, thoroughly cleaned & apply 1 coat universal undercoat & 2 coats gloss enamel, Colour later specification.

Door Finish

Sand down timber, remove dust and dirt and apply 2 coats approved UV resistant exterior varnish.

Door Furniture

Approved three lever socket SC Gower furniture ref CZ-682-24-95, 3X75X100mm nylon washered brass butt hinges to hanging style (to be heavy duty). Rubber door stop.

NO.	DATE	REVISION	DRAWN

NOTES
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DINGAAN & ASSOCIATES architects


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PROJECT
LINGELETHU JUNIOR PRIMARY SCHOOL,
MBIZANA, EASTERN CAPE

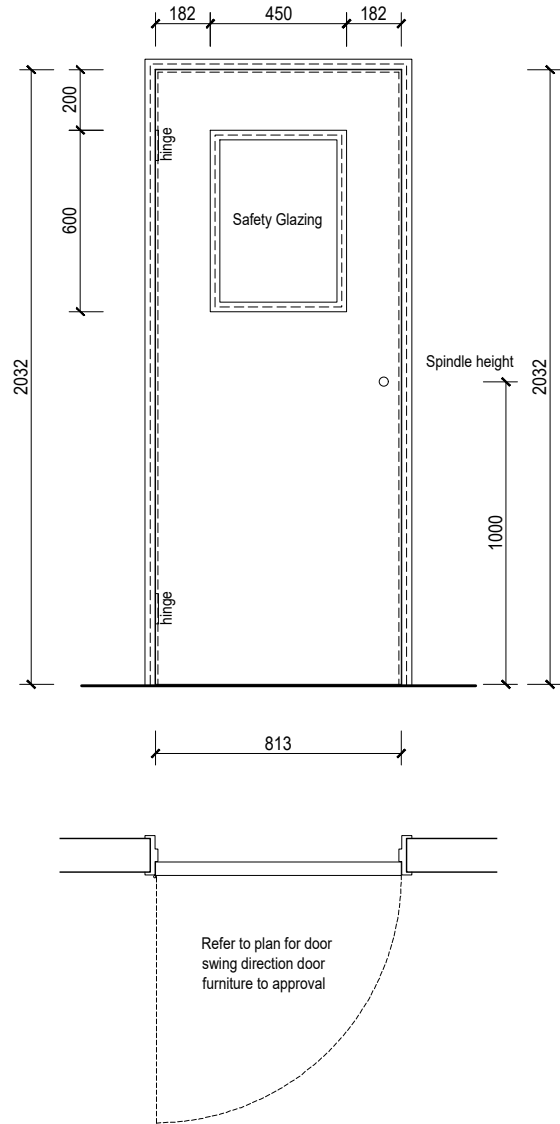
DRAWING TITLE
DOOR SCHEDULES - D1 AND D2

NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413	A	EL313/00 - DS01	T	--

Door Number
D3

Quantity
2

Location
-SICK BAY
-STORE



Frame Description

1.6mm Galv. mild steel pressed jamb lining with double rebates to suit 115mm brick wall No 3 x100mm loose pin steel hinges to hanging style. As shown on elevation above No 3 x PVC buffers to closing style

Door Description

44x813x2032mm high approved semi solid flush panel door with 6mm safety glazing as indicated on drawing, including veneer suitable for painting both sides and hardwood edge strips all around.

Frame Finish

Hot dip galvanised after fabrication, thoroughly cleaned & apply 1 coat universal undercoat & 2 coats gloss enamel. Colour later specification.

Door Finish

Prepare and paint one universal undercoat and two coats gloss enamel paint on general surfaces of door, including top and bottom surface and reveals.

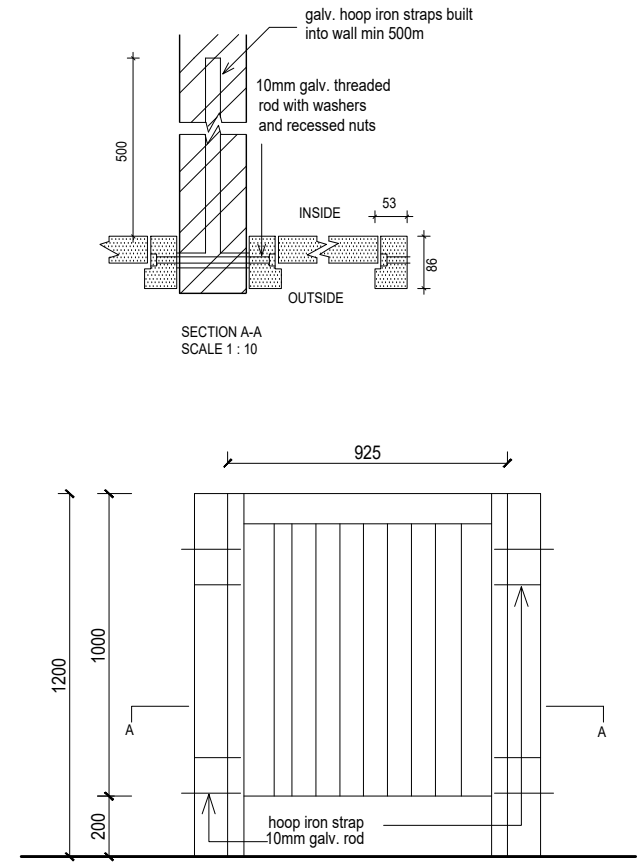
Door Furniture

8352-100SS 100x75mm stainless steel hinges.
L-2241-78SS oval cylinder lockcase.
CB612/06/13SC protea lever furniture
401SC doorstop and holder
2X8SCMKD half cylinder lock mechanism

Door Number
D4

Quantity
06

Location
Ablutions



Frame Description

Hardwood single door frame with 90x70mm sections.

Door Description

925x750mm selected meranti door with ex 50x114mm styles and top rail, ex 25x114mm mid rail and brace, ex 25x228mm bottom rail and 22mm T&G slats

Frame Finish

Hardwood double door frame with 90x70mm sections and no sill. Back of frame to receive 2xcoats waterproofing primer.

Door Finish

Prepare and paint one universal undercoat and two coats gloss enamel paint on general surfaces of door, including top and bottom surface and reveals.

Door Furniture

1.0 E1511 H/D adjustable roller catch - SC
1.0 Formed 300x50mm stainless steel plate - formed over the top of the door - bent twice extending 50mm down top edge of door on both sides
2.0 75X41mm SC on brass butt hinges

NO.	DATE	REVISION	DRAWN

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VALIDATED L. D		1. = INFORMATION 2. = CORRECTION 3. = AS BUILT

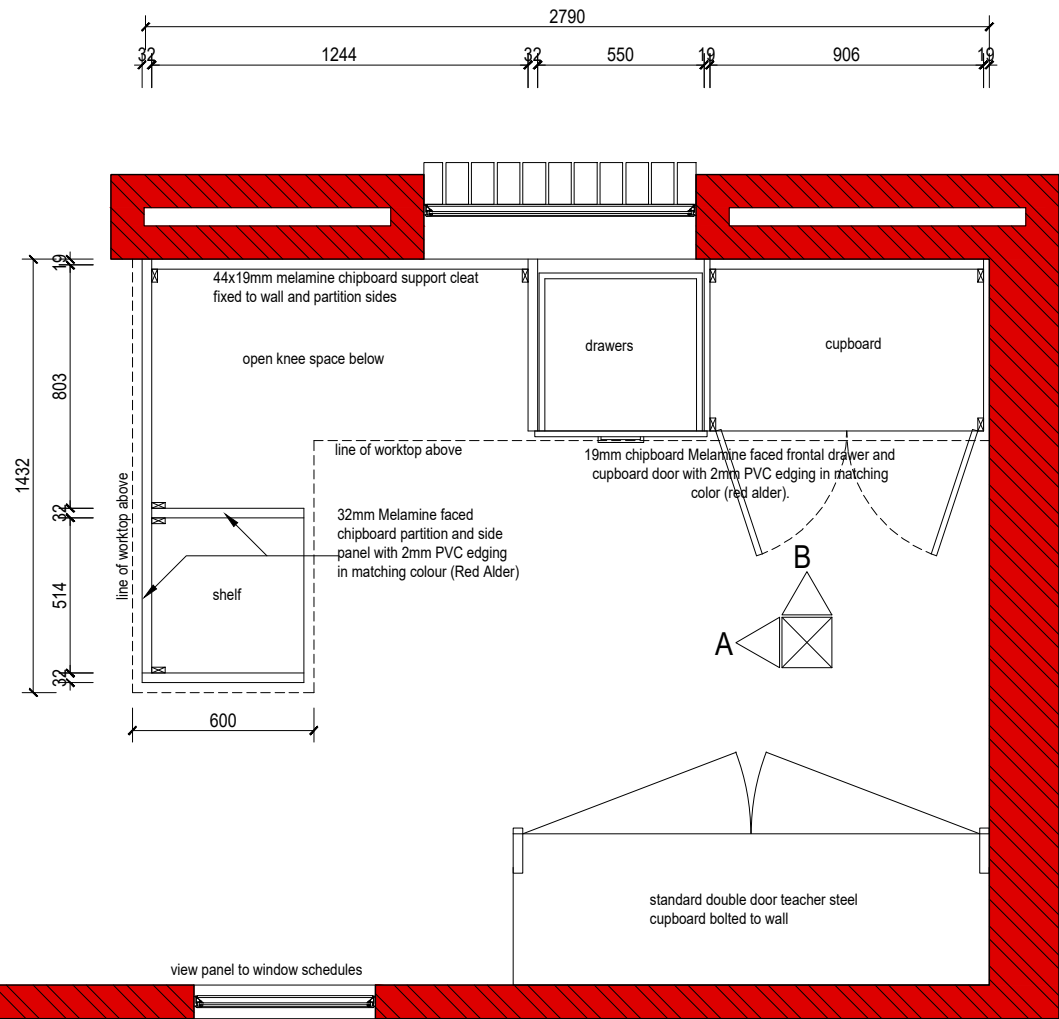
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LINGELETHU JUNIOR PRIMARY SCHOOL,
MBIZANA, EASTERN CAPE

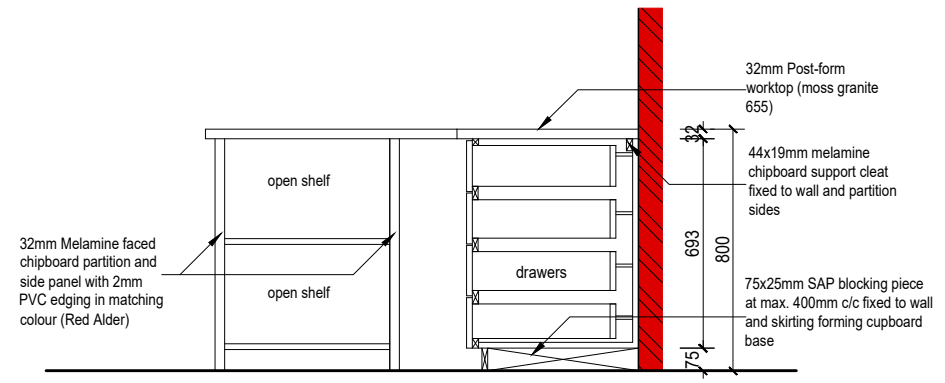
DRAWING TITLE
DOOR SCHEDULES - D3 AND D4

NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413	A	EL313/00 - D302	T	--



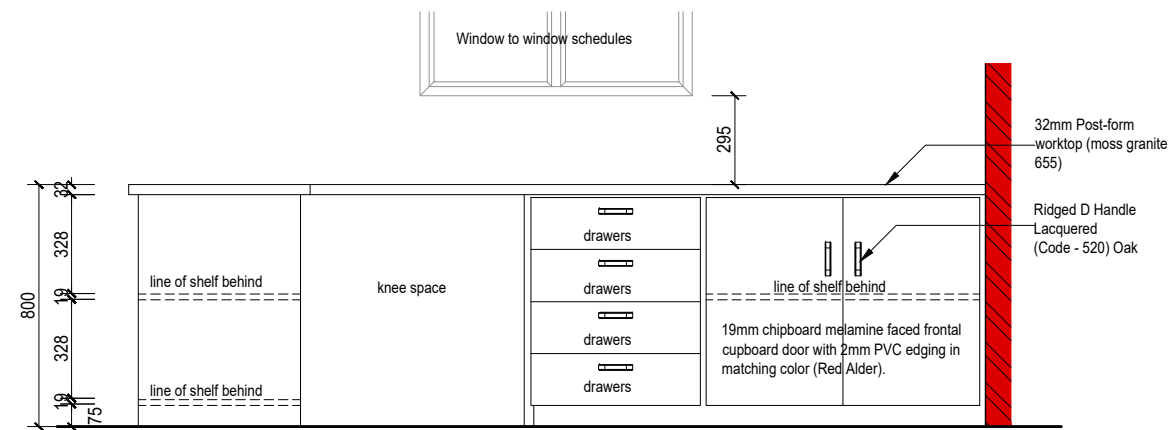
FLOOR PLAN (TEACHER DESK)

Scale 1 : 25



ELEVATION - A

Scale 1 : 25



ELEVATION - B

Scale 1 : 25

NO.	DATE	REVISION	DRAWN

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DINGAAN & ASSOCIATES ARCHITECTS

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SPONSOR

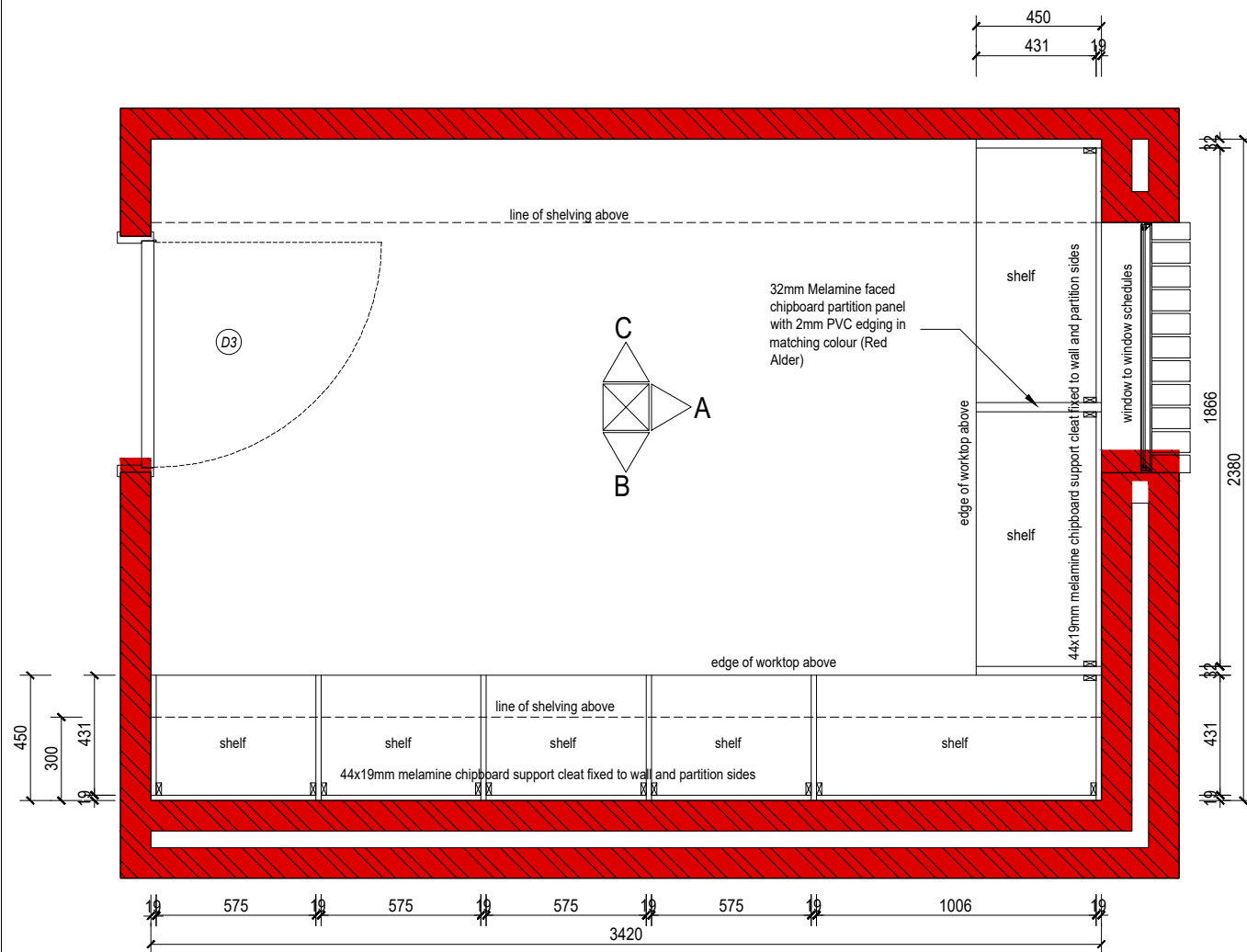


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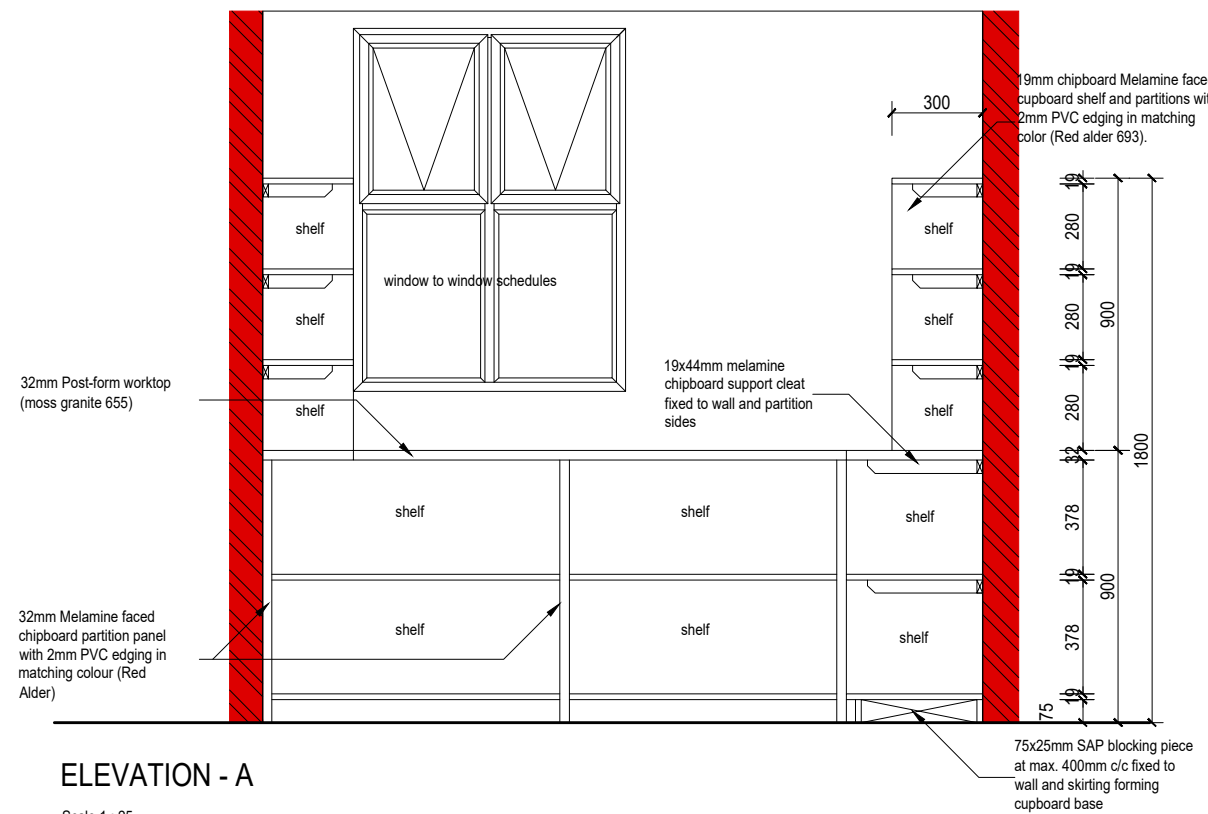
DRAWING TITLE
JOINERY DETAILS - TEACHER'S DESK AND
CUPBOARD

NO.	DATE	REVISION	DRAWN
200500413	A	EL313/02 - JD02	T



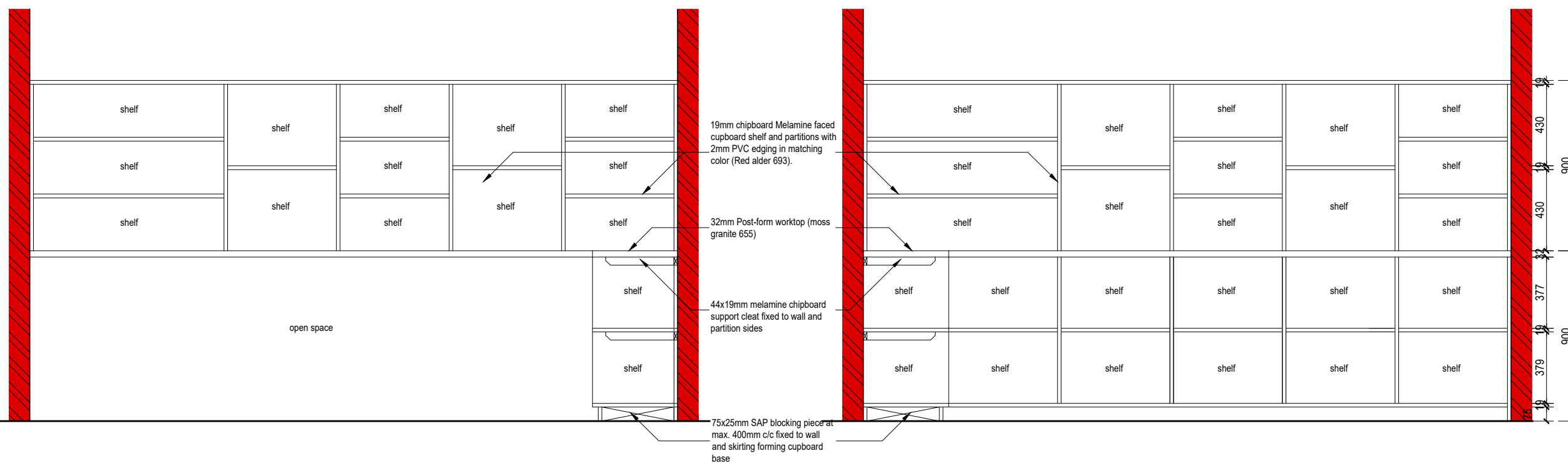
FLOOR PLAN (STORE)

Scale 1 : 25



ELEVATION - A

Scale 1 : 25



ELEVATION - B

Scale 1 : 25

ELEVATION - C

Scale 1 : 25

NO.	DATE	REVISION	DRAWN

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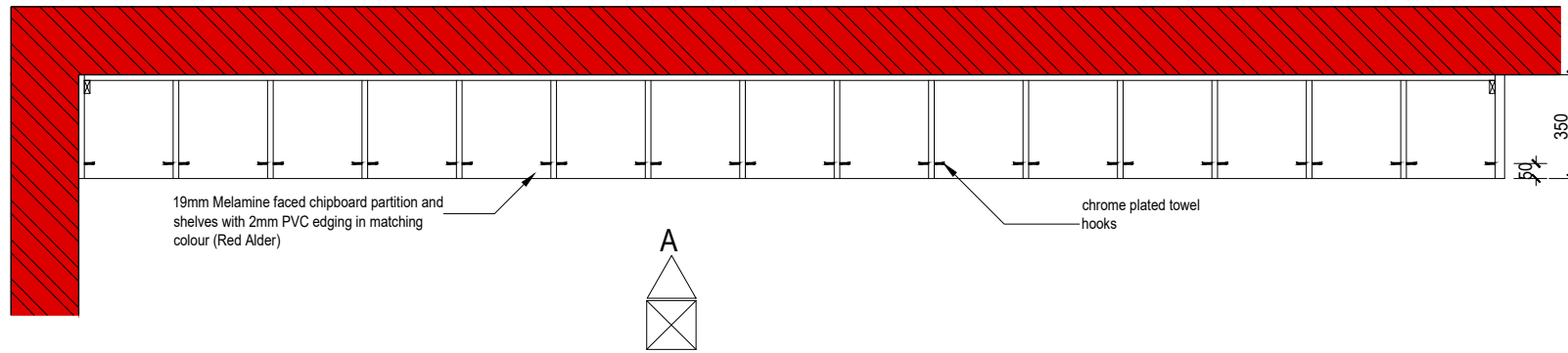
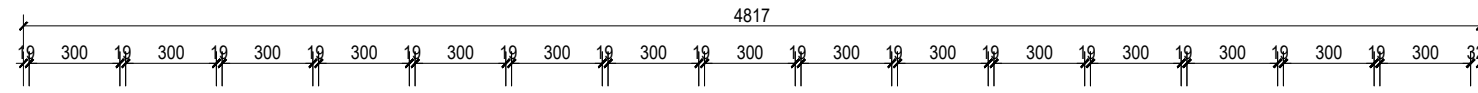


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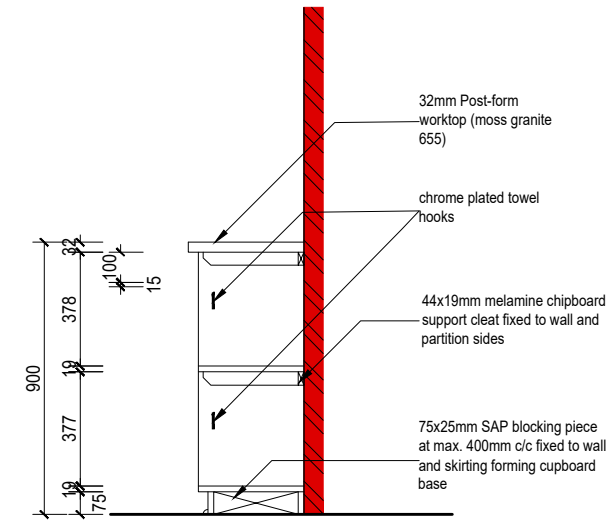
DRAWING TITLE
 JOINERY DETAILS - STORE

NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
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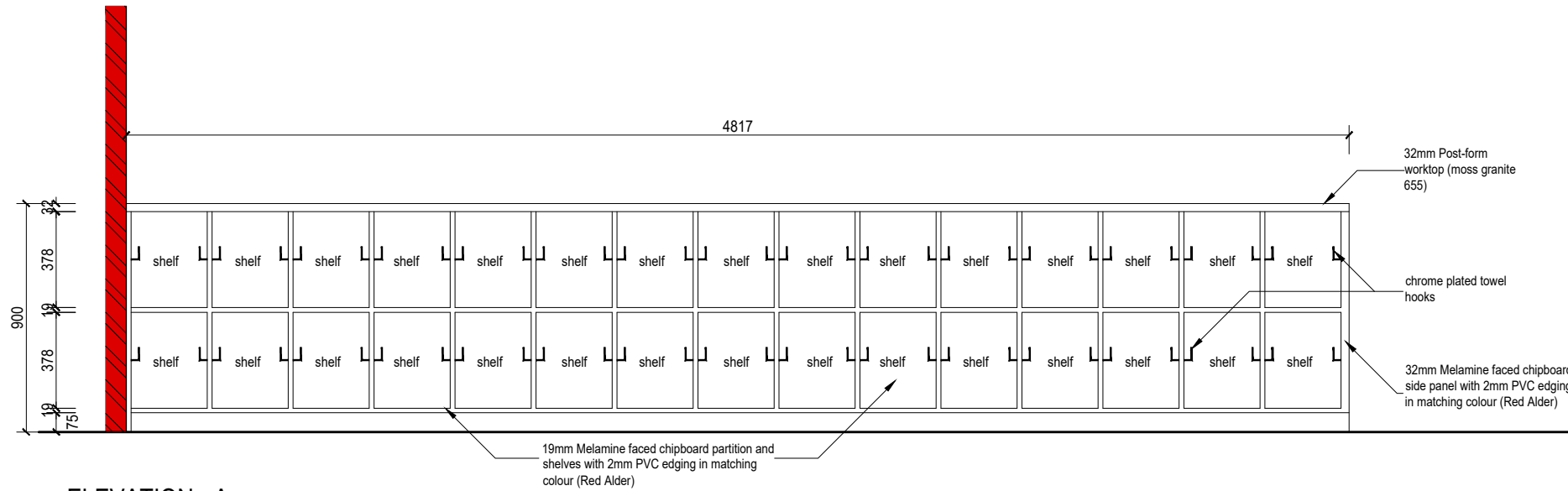
FLOOR PLAN (PIGEON HOLES)

Scale 1 : 25



SECTION

Scale 1 : 25



ELEVATION - A

Scale 1 : 25

NO.	DATE	REVISION	DRAWN

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 Southernwood
 East London
 5201

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DINGAAN & ASSOCIATES architects

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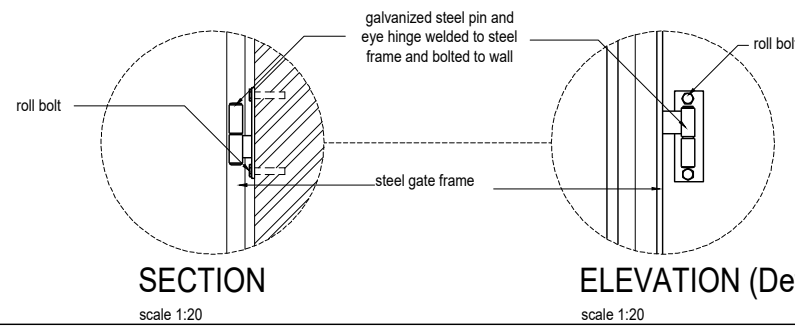
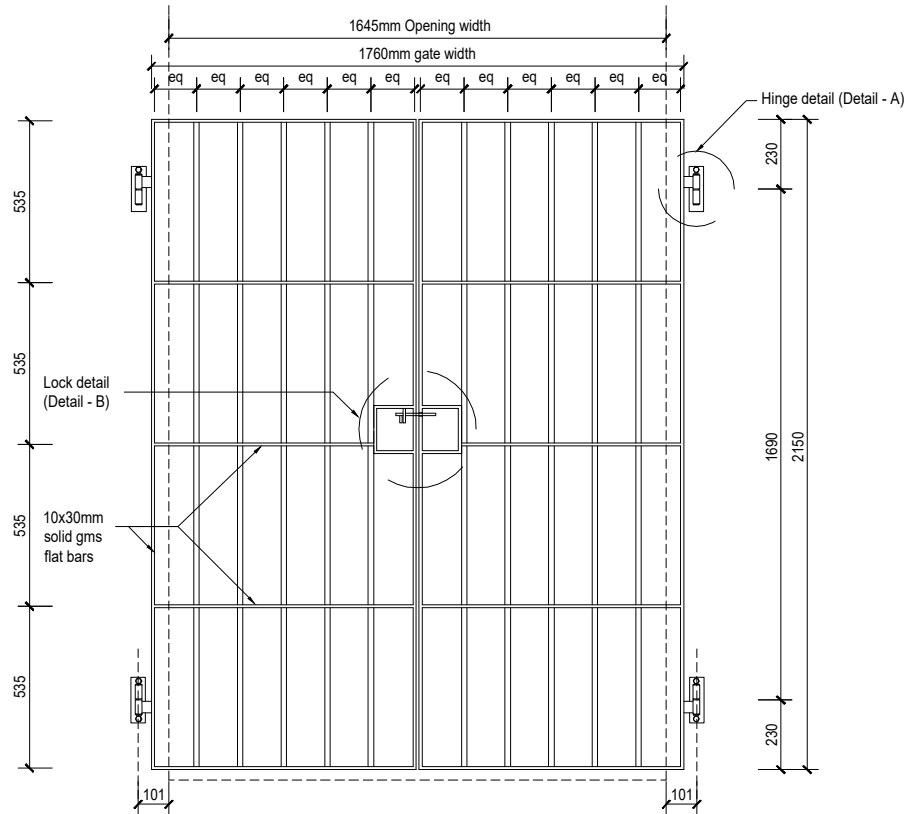
DRAWING TITLE
 JOINERY DETAILS - CLASSROOM PIGEON HOLES

NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413	A	EL313/02 - JD04	T	--

Gate Number
G1

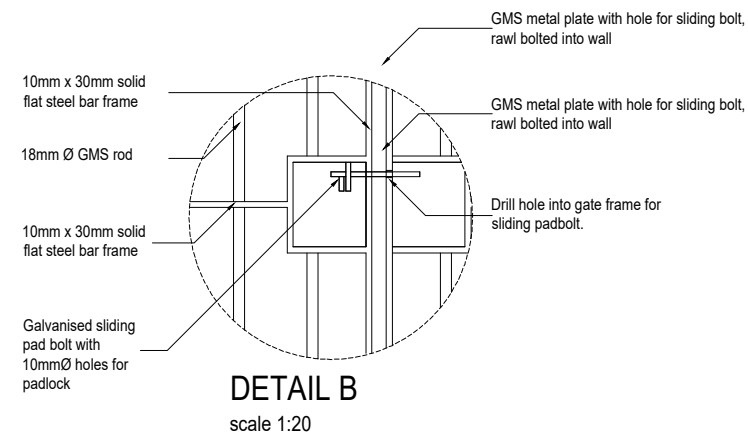
Quantity
02

Location
CLASSROOMS



SECTION
scale 1:20

ELEVATION (Detail A)
scale 1:20



DETAIL B
scale 1:20

Gate Number

Quantity

Location

Frame Description	Hot dipped galvanized mild steel frame as detailed and indicated on drawing, to approval.	Gate Description	1760x2150mm hot dipped galvanized mild steel double swing gate as per detailed drawings, to approval.
Frame Finish	Apply 1 coat zinc chromate primer coat, 2 coats universal undercoat and 1 coat high gloss enamel paint, colour to Architects approval	Gate Finish	Apply 1 coat zinc chromate primer coat, 2 coats universal undercoat and 1 coat high gloss enamel paint, colour to Architects approval
Gate Furniture	Galvanized pin & eye hinges. Galvanized sliding padbolts (horizontal & vertical) as per details.		

Frame Description		Gate Description	
Frame Finish		Gate Finish	
Gate Furniture			

NO.	DATE	REVISION	DRAWN

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DRAWING TITLE
BURGLAR GATE DETAILS

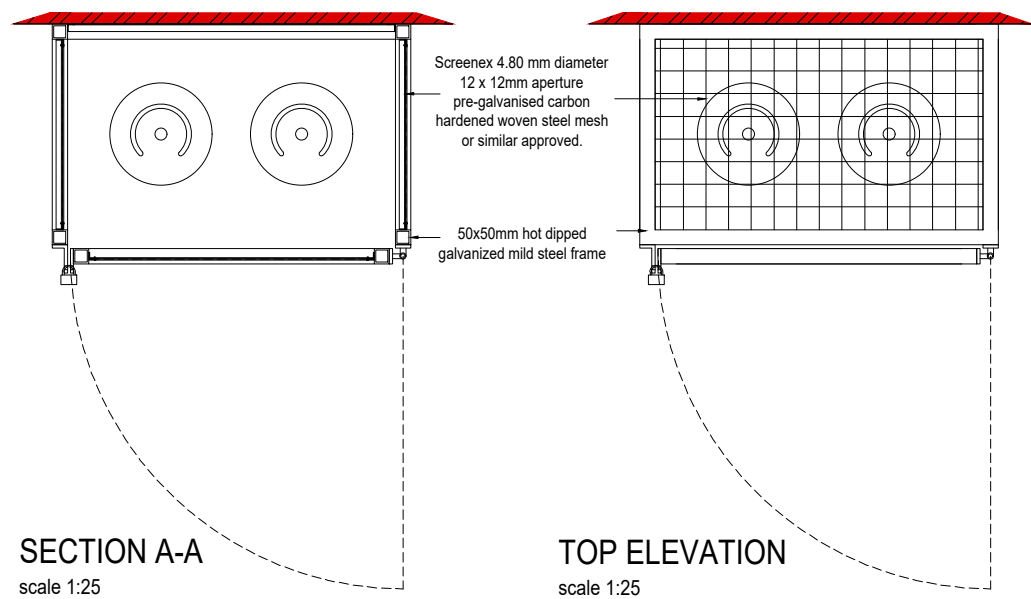
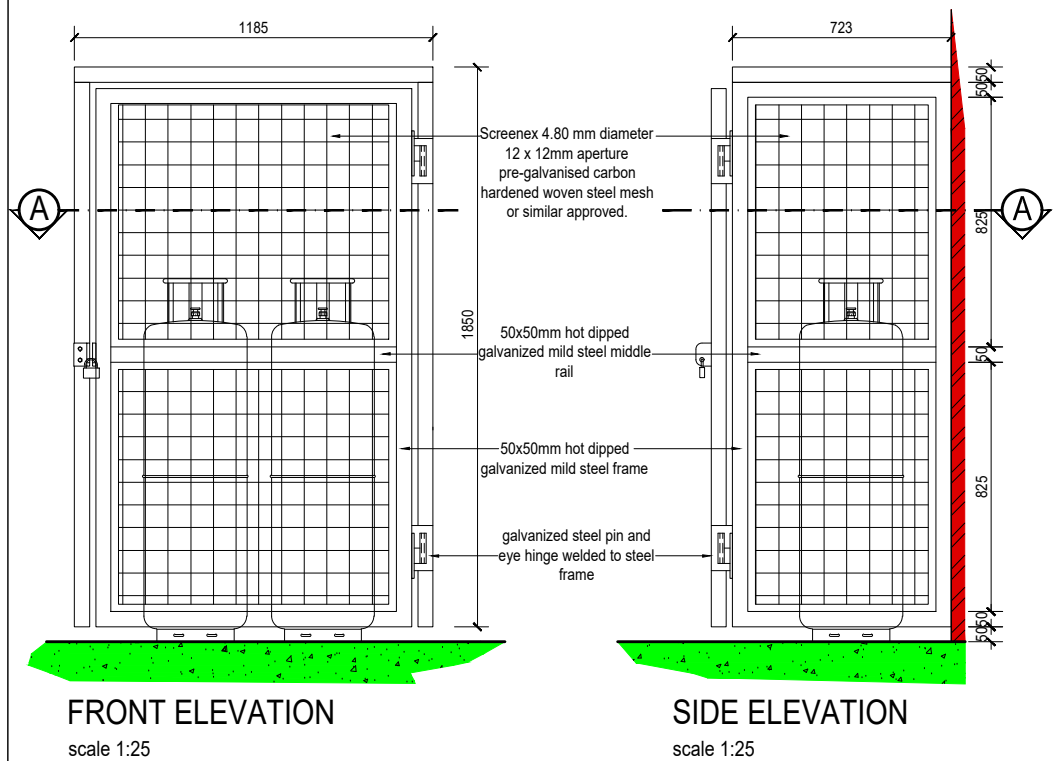
NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413	A	ELS13/02 - BGD01	T	--

LP GAS CAGE

Quantity
01

Location
KITCHEN

GMS gas cylinders' cage



Gate Number

Quantity

Location

Frame Description	Hot dipped galvanized mild steel frame as detailed and indicated on drawing, to approval.	Gate Description	Screenex wire weaving manufacturers 4.80 mm diameter 12 x 12 mm mesh aperture pre-galvanised carbon hardened woven steel mesh or similar approved.
Frame Finish	Hot dipped galvanized	Gate Finish	Hot dipped galvanized
Gate Furniture	Galvanized pin & eye hinges. Exterior grade discus type padlock		

Gate Number

Quantity

Location

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DRAWING TITLE
LP GAS CAGE DETAILS

NO.	DATE	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413		A	EL313/02 - LPG01	T	--

		DRY SCHOOLS ONLY							
		GRADE R KITCHEN	GRADE R VERANDAH	GRADE R SICK ROOM	GRADE R TOILETS	DISABLED TOILET	QUANTITY		
SANITARY FITTINGS	SENIOR WC PEDESTAL				●	●	2	Approved moulded polyethylene pedestal with incorporated seat & flap, size 387x518H with foot piece and inlet funnel	
	JUNIOR WC PEDESTAL				●		2	Approved moulded polyethylene pedestal with incorporated seat & flap, size 364x480H with foot piece and inlet funnel	
	WHITE GLAZED PORCELAIN WHB		●	●		●	1	Approved 510x430mm vitreous enamel whb 2x bolted to wall - colour white.	
	SINK UNIT	●					1	1050mm long Stainless steel single bowl drop in sink unit, complete with drain and rubber trap.	
	WASH TROUGH		●				1	Approved, 700x470mm polyethylene wash trough bolted to wall - colour - granite grey.	
TAPS	TAPS		●				2	2 x Approved standard brass wall mounted bib tap - 100 - 15.	
	TAPS			●			1	Approved pillar tap - cold water only.	
	TAPS	●					1	Approved swan neck swivel sink mixer - cold water only.	
	TAPS					●	1	Approved elbow action pillar tap	
ACCESSORIES	MIRRORS			●		●	2	600 x 400 silver backed mirror fixed with dome head screws.	
	ROLL HOLDER				●	●	4	Standard single toilet roll holder plugged & screwed to wall.	
	HELPING HAND HARDWARE					●	1	Stainless steel grab rails - 32 Dia. - 1x Dogleg side rail with center flange. 1x 750mm long back rail.	

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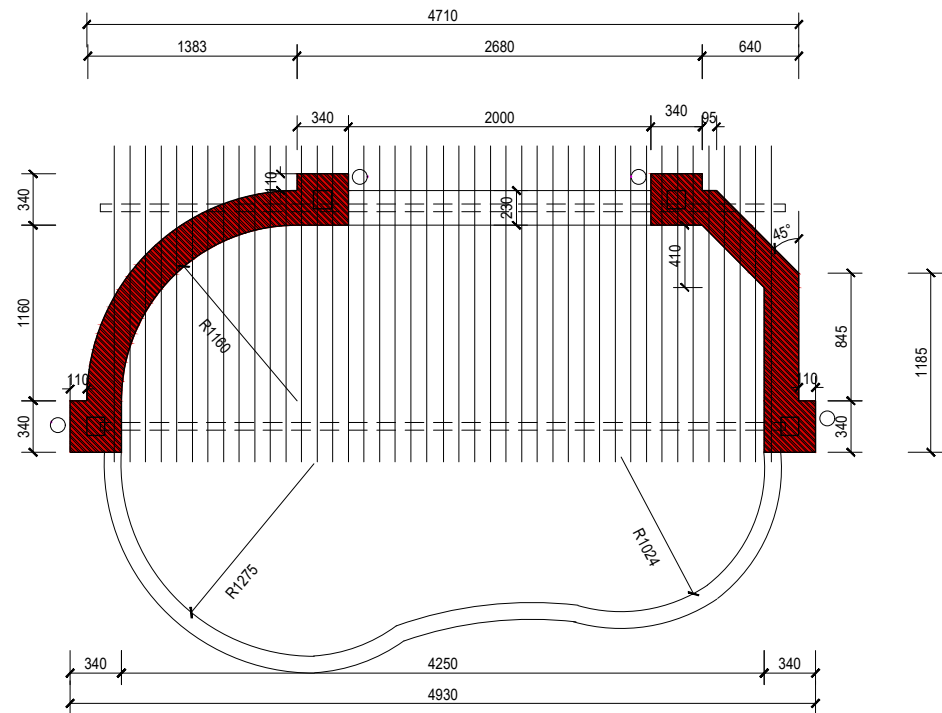


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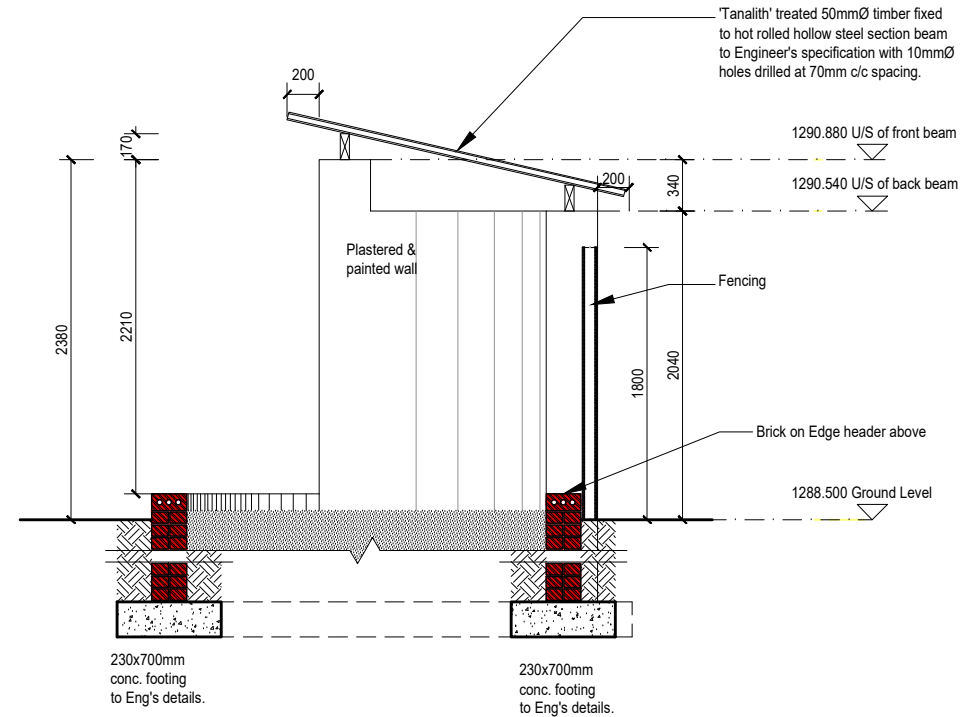
DRAWING TITLE
SANITARY SCHEDULES

NO.	DATE	REVISION	DRAWN
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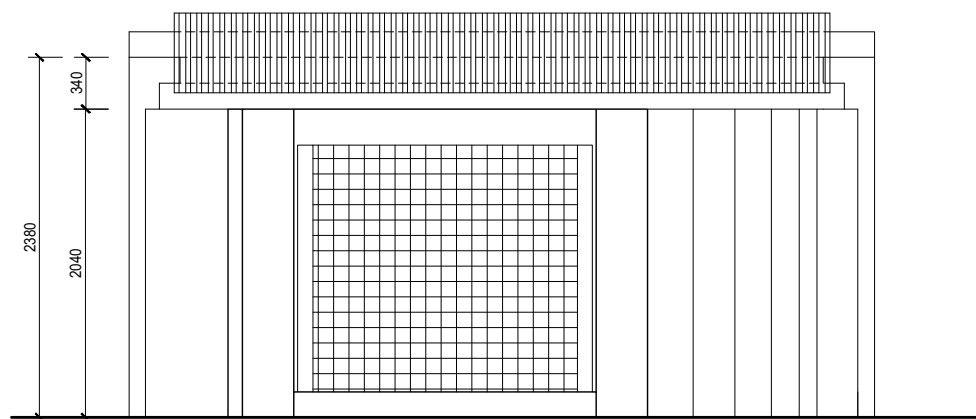
PLAN LAYOUT - SAND PIT

SCALE 1:50



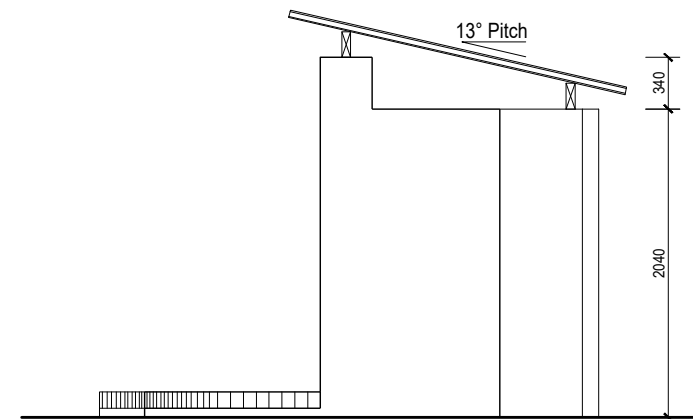
SECTION

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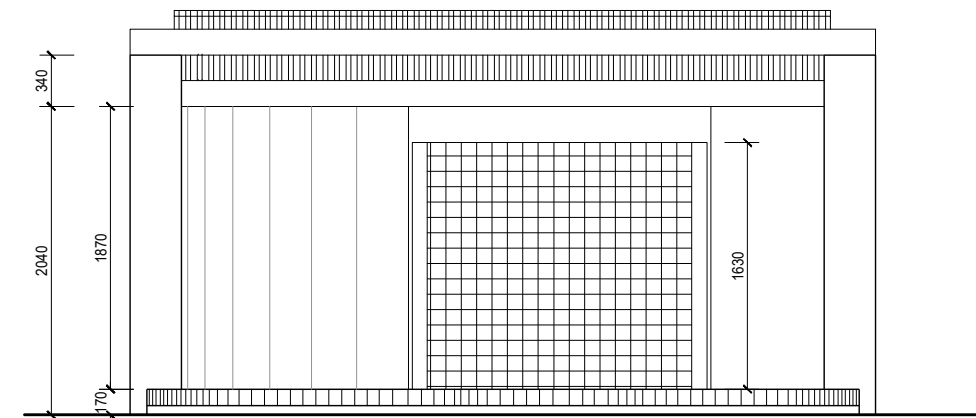
EAST ELEVATION

SCALE 1:50



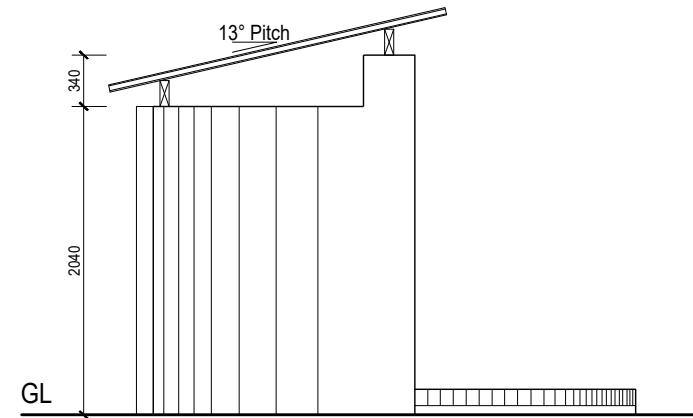
SOUTH ELEVATION

SCALE 1:50



WEST ELEVATION

SCALE 1:50



NORTH ELEVATION

SCALE 1:50

NO.	DATE	REVISION	DRAWN

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SPONSOR

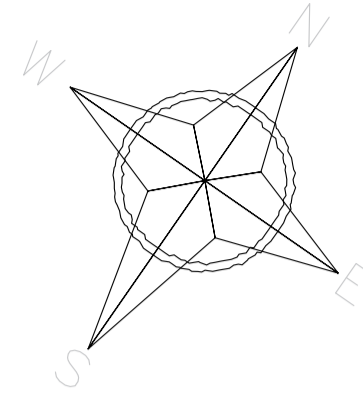


PROJECT
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DRAWING TITLE
 SAND PIT - PLAN, SECTION AND ELEVATIONS

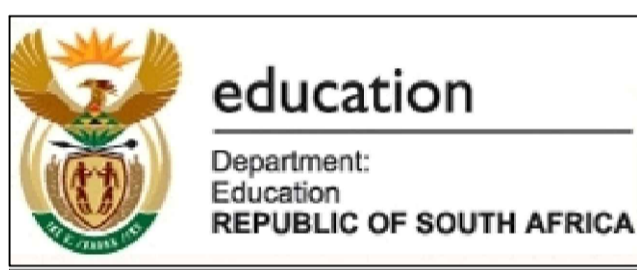
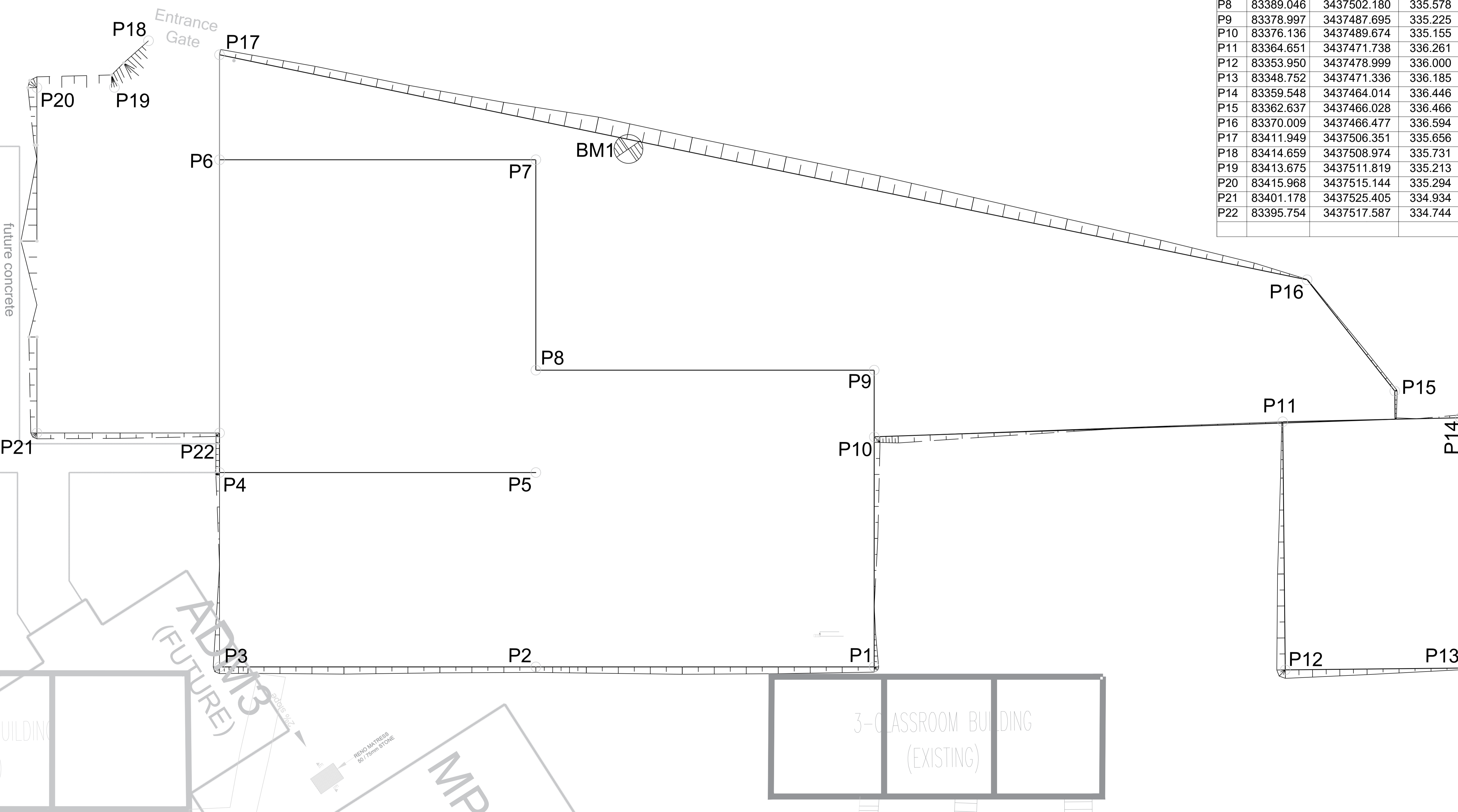
NO.	DISCIPLINE	DRAWING NUMBER	STATUS	REVISION
200500413	A	EL313/01 - SP01	T	--

**CIVIL ENG.
DRAWINGS**



BENCHMARKS			
NAME	Y-Coord	X-Coord	ELEV.
BM1	83395.767	3437491.644	335.597
BM2	83303.638	3437533.826	333.515
BM3	83364.095	3437564.908	332.798

PLATFORMS SETTING-OUT POINTS			
Name	Y-Coord	X-Coord	FPL
P1	83366.290	3437496.511	335.182
P2	83376.340	3437510.996	334.830
P3	83385.736	3437524.538	334.500
P4	83394.059	3437518.763	334.703
P5	83384.663	3437505.221	335.032
P6	83407.453	3437509.470	335.029
P7	83398.057	3437495.928	335.358
P8	83389.046	3437502.180	335.578
P9	83378.997	3437487.695	335.225
P10	83376.136	3437489.674	335.155
P11	83364.651	3437471.738	336.261
P12	83353.950	3437478.999	336.000
P13	83348.752	3437471.336	336.185
P14	83359.548	3437464.014	336.446
P15	83362.637	3437466.028	336.466
P16	83370.009	3437466.477	336.594
P17	83411.949	3437506.351	335.656
P18	83414.659	3437508.974	335.731
P19	83413.675	3437511.819	335.213
P20	83415.968	3437515.144	335.294
P21	83401.178	3437525.405	334.934
P22	83395.754	3437517.587	334.744



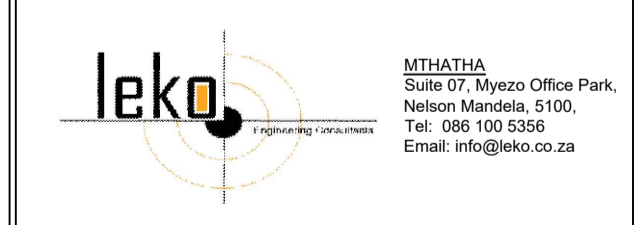
REV.	DESCRIPTION	DATE
A	FIRST ISSUE FOR APPROVAL	05/2023

CLIENT: _____ CIVIL

TOTAL AREA: _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU SPS

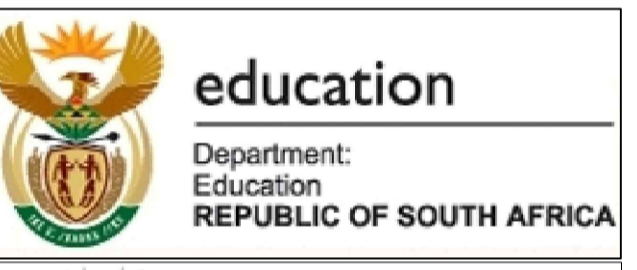
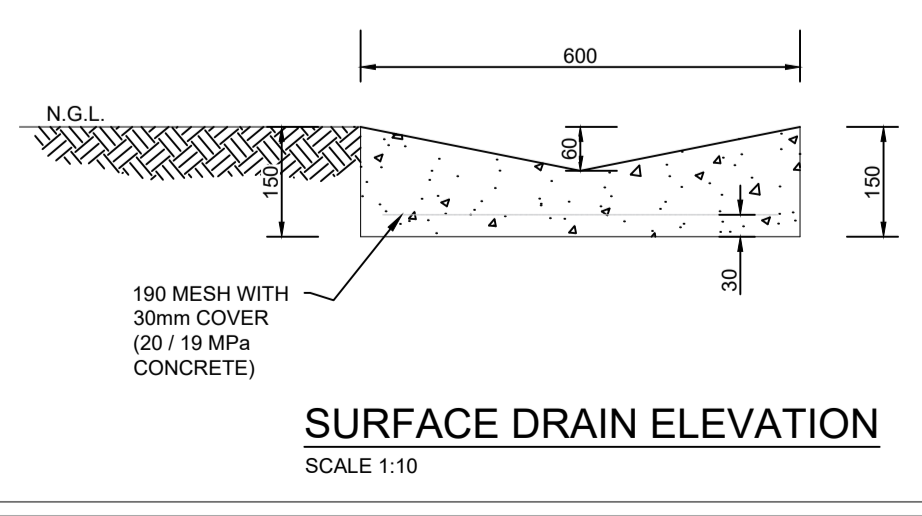
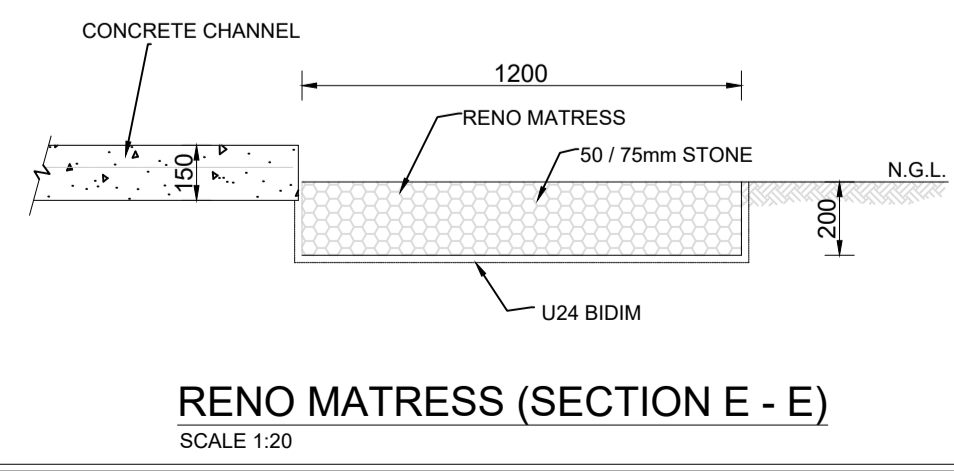
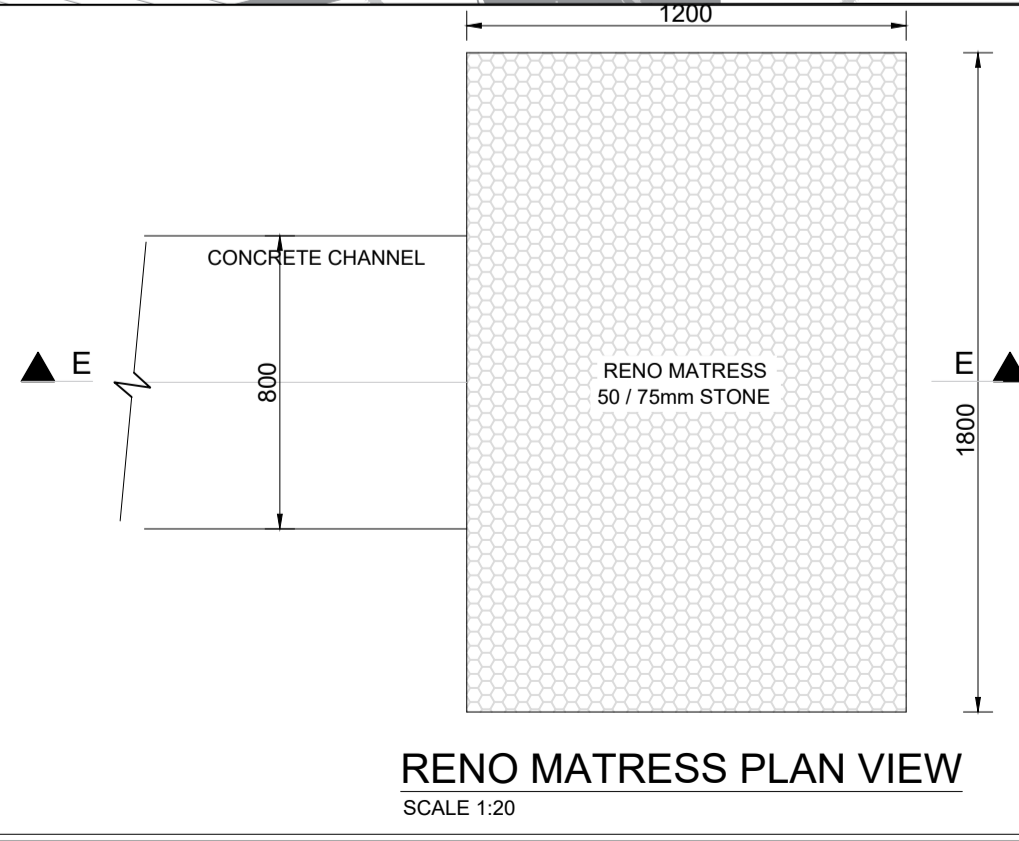
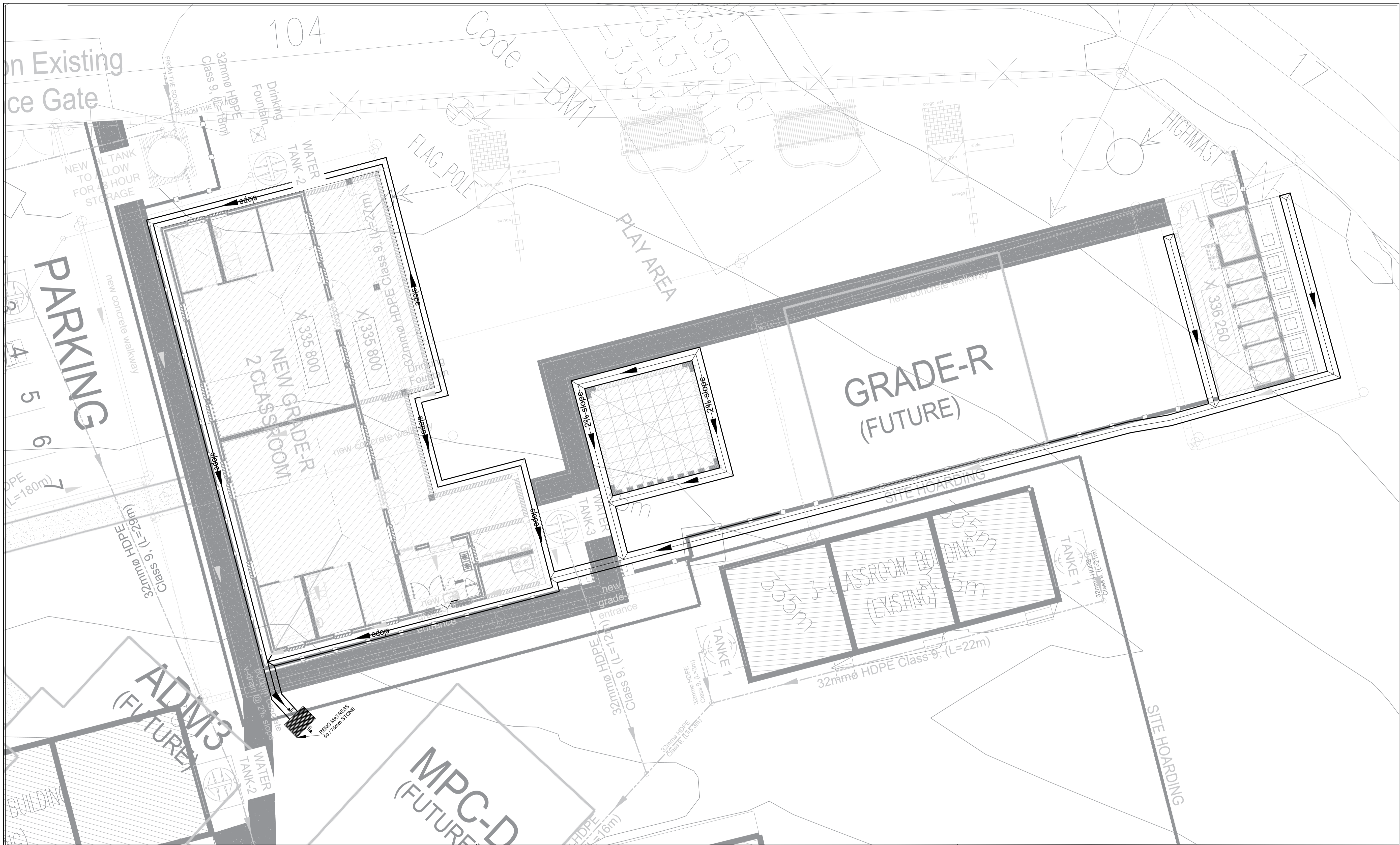
TITLE
PLATFORMS LAYOUT



NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED: L. BOGOSHI			A1
DRAWN: B. DINGISIBALA			SCALE: 1:100
VERIFIED:			STATUS LEGEND:
VALIDATED:			SHEET: 1 OF 1

EMIS NUMBER: _____ DRAWING NO.: 1702-LIN-CIV-01 STATUS: _____

DISCIPLINE: CIVIL REVISION NO.: A



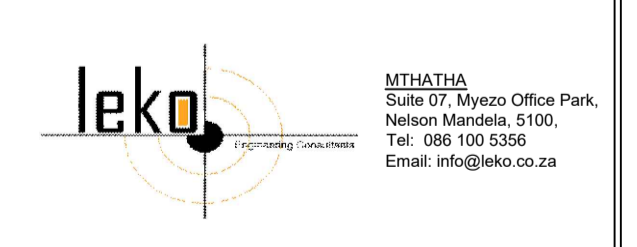
REV.	DESCRIPTION	DATE
A	FIRST ISSUE FOR APPROVAL	02/2017
B	BUILDING REVISED	05/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU SPS

TITLE
STORMWATER LAYOUT AND DETAILS



NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED: BOGOSH			A1
DRAWN: BOGOSH			SCALE
VERIFIED:			1:100
VALIDATED:			STATUS LEGEND
			SHEET 1 OF 1

EMIS NUMBER	DRAWING NO. 1702-AN-CIV-03	STATUS
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DISCIPLINE CIVIL	REVISION NO. B
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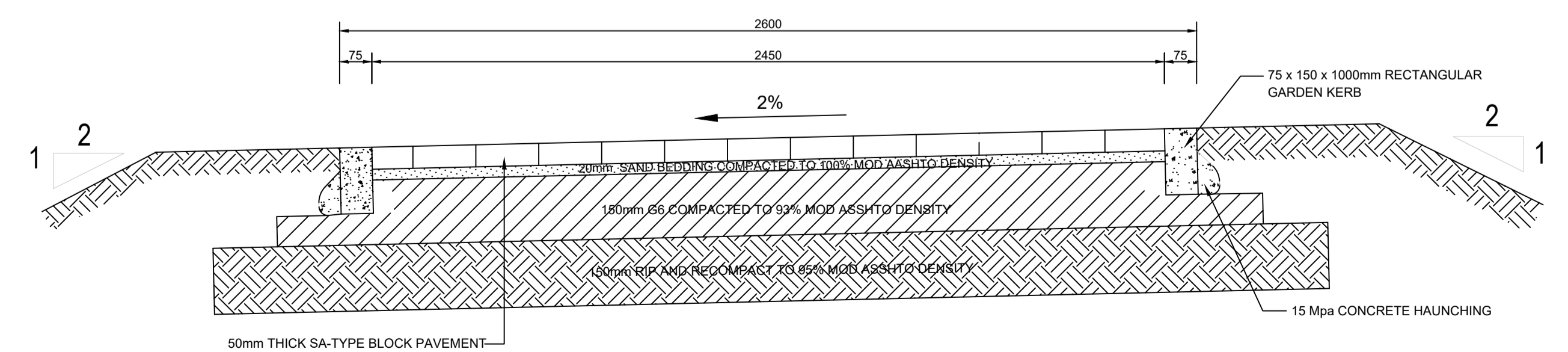


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 Y = 83395.767
 X = 3437491.644
 Z = 335.597

Code = BM1
 Y = 83395.767
 X = 3437491.644
 Z = 335.597

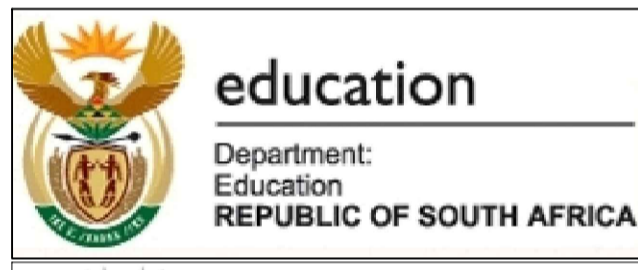
Code = BM2
 Y = 83303.638
 X = 3437533.826
 Z = 333.515

Code = BM2



SECTION THROUGH WALKWAY AND RAMPS
 SCALE 1:10

BENCHMARKS			
NAME	X-Coord	Y-Coord	ELEV.
BM1	50 615.08	3391362.48	1453.31
BM2	50486.32	3391429.16	1448.17



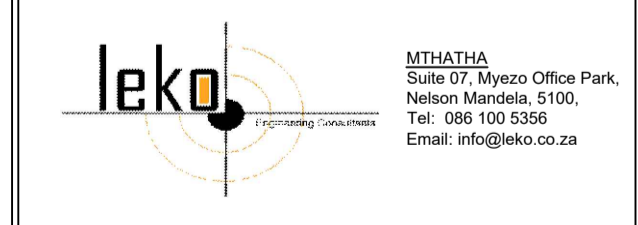
REV.	DESCRIPTION	DATE
A	FIRST ISSUE FOR APPROVAL	02/2017
B	WALKWAY REVISED	02/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT: DOE PORTFOLIO PROGRAMME
 EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU SPS

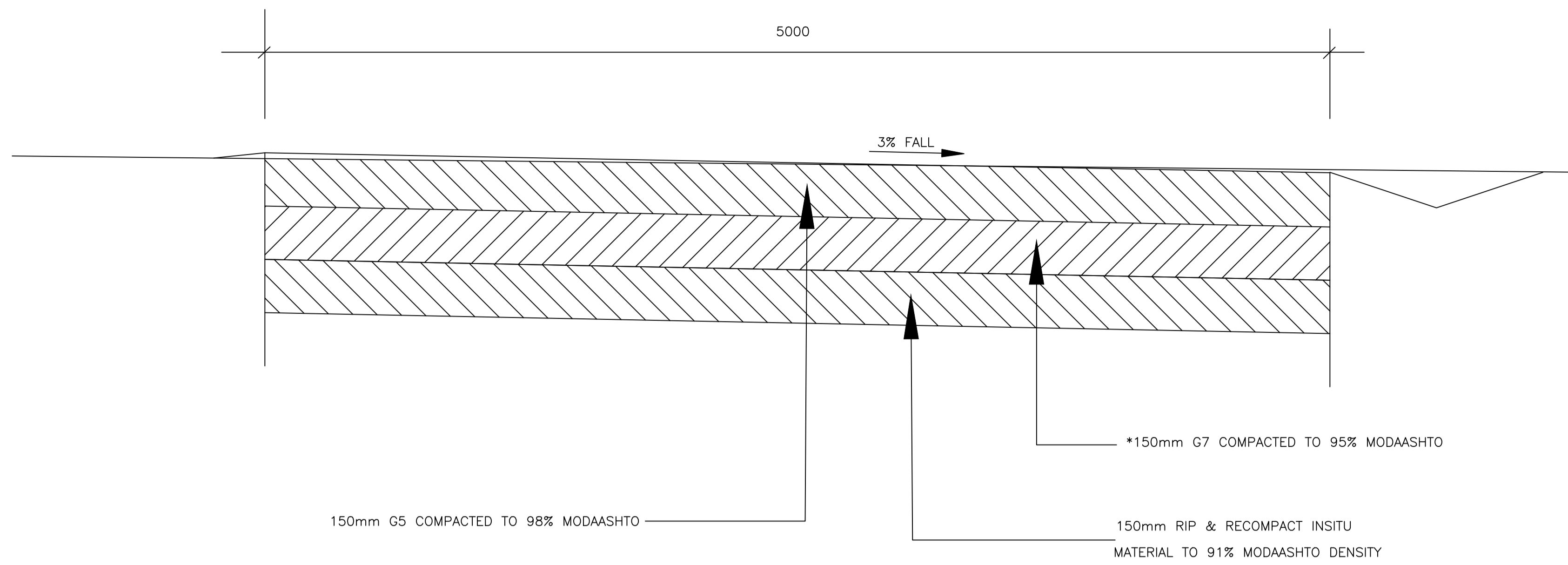
TITLE: **WALKWAYS LAYOUT AND DETAILS**



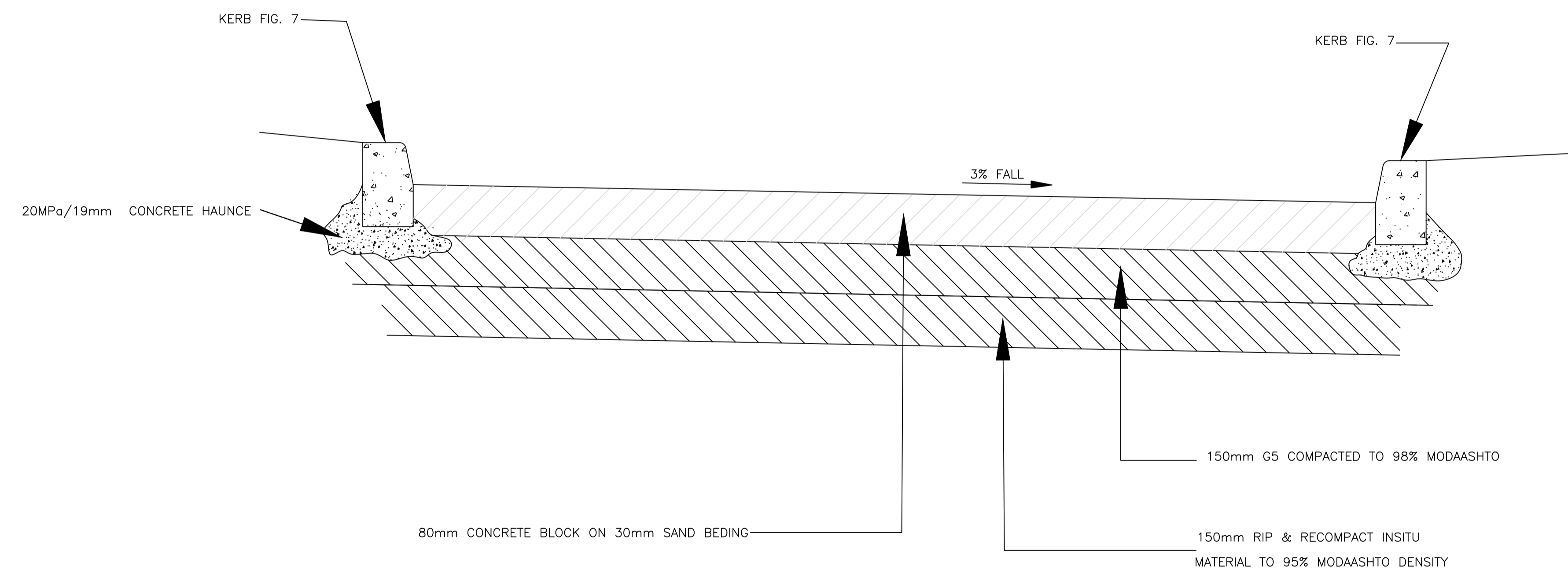
NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED: I. BOGOSH			A1
DRAWN: B. DINGALBALA			SCALE: 1:300
VALIDATED:			STATUS LEGEND:
			SHEET 1 OF 1

EMIS NUMBER: 200501240
 DRAWING NO.: 1702-LN-CN-02
 STATUS: _____

DISCIPLINE: CIVIL
 REVISION NO.: B

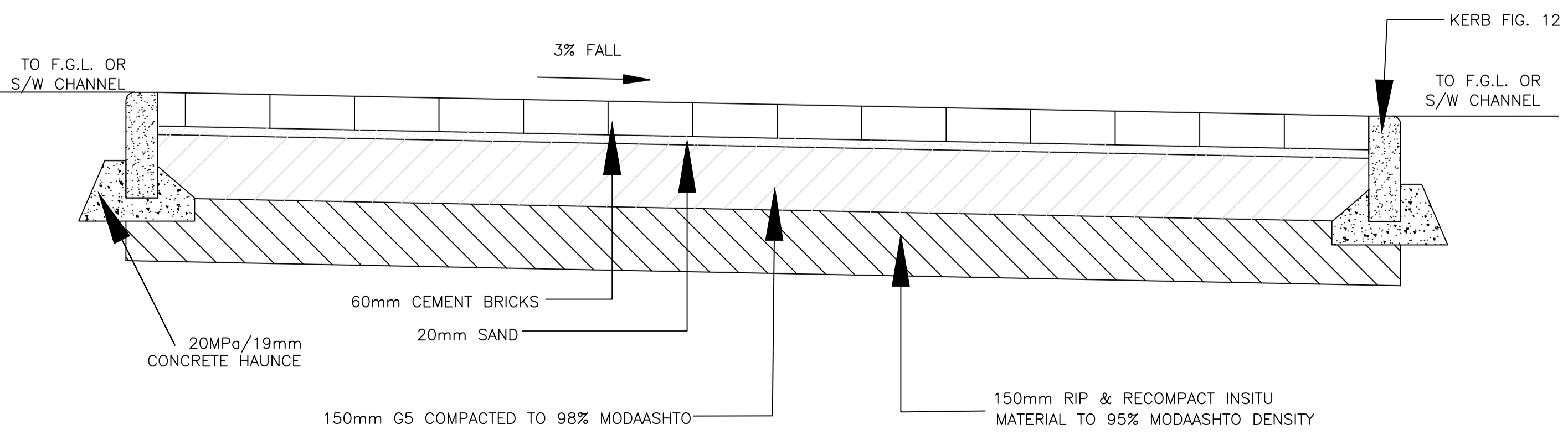


ROAD WAY

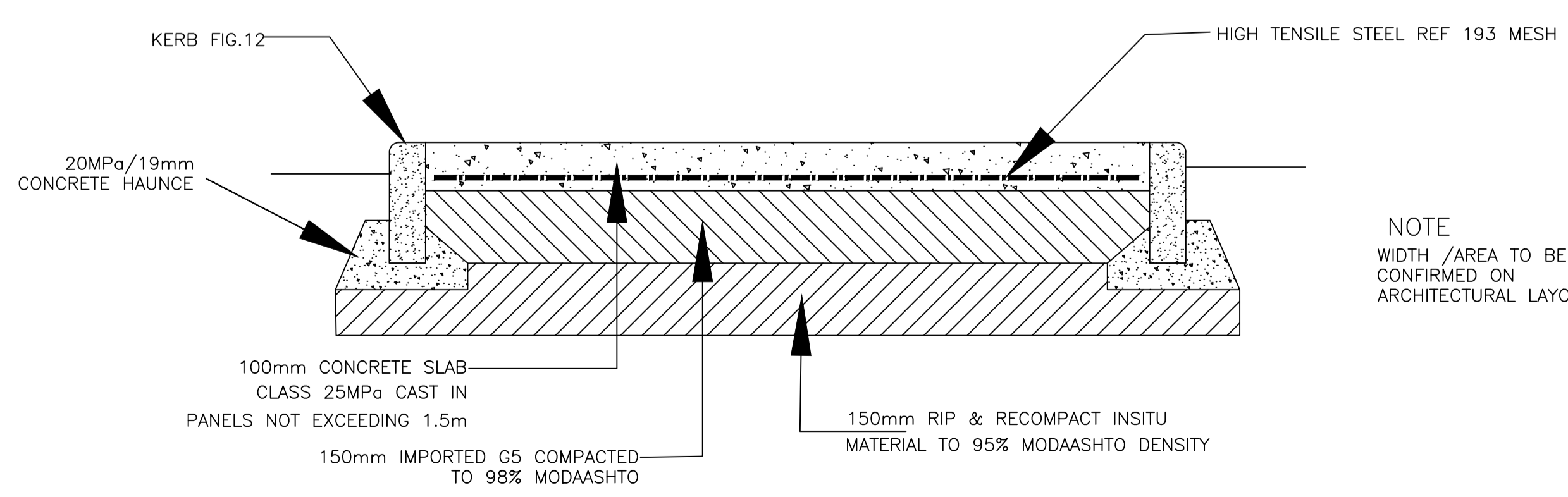


PARKINGS

KERBING				
CODE No.	DESCRIPTION	LENGTH	MASS	ILLUSTRATION
KB 1004	FIG. 2B	1.0m	46kg	
KB 1006	FIG. 2B	0.33m	16kg	
KB 1018	FIG. 7	1.0m	100kg	
KB 1019	FIG. 7	0.33m	34kg	

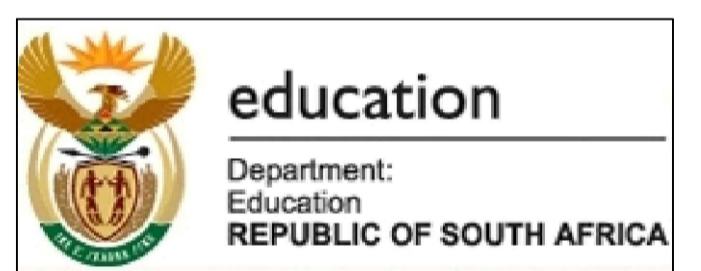


BRICK PAVED ASSEMBLY LAYERWORK



WALKWAY / APRONS

NOTE
WIDTH /AREA TO BE
CONFIRMED ON
ARCHITECTURAL LAYOUT



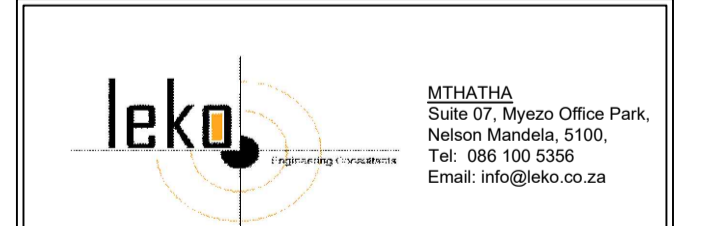
REV.	DESCRIPTION	DATE
A	FIRST ISSUE FOR APPROVAL	02/2017
B	WALKWAY REVISED	02/2023

CLIENT _____ CIVIL

TOTAL AREA _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU SPS

TITLE
WALKWAYS, ROAD & PARKING LAYER-WORKS
DETAILS



DESIGNED	DRAWN	VERIFIED	VALIDATED	NAME	SIGNATURE	DATE	SHEET SIZE
				I. BOGOSH			A1
				B. DINGALBALA			SCALE
							1:300
							STATUS LEGEND
							SHEET 11 OF 1

EMIS NUMBER 200501240 DRAWING NO. 1702-LN-CV-04 STATUS

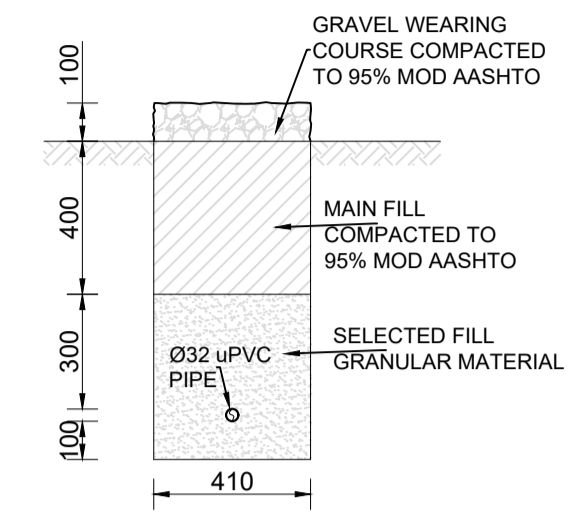
DISCIPLINE CIVIL REVISION NO. B

BENCHMARKS			
NAME	Y-Coord	X-Coord	ELEV.
BM1	83395.767	3437491.644	335.597
BM2	83303.638	3437533.826	333.515
BM3	83364.095	3437564.908	332.798
PH	83324.304	3437565.733	PUMP HOUSE

PIPELINES LEGEND:	
	GRAVITY MAIN (FROM ELEVATED TANK)
	GRAVITY MAIN (FROM RAIN WATER TANKS)
	RISING MAIN (FROM PUMP HOUSE)
	GRAVITY MAIN (FROM SOURCE)

WATER TANKS LEGEND:	
	WATER TANK 1 : 2500L
	WATER TANK 2 : 5000L
	WATER TANK 3 : 10 000L
	ELEVATED TANK (ELEV. TANK) : 5000L

PROPOSED PUMP HOUSE WITH ONE DUTY AND ONE STANDBY PUMPS



TYPICAL WATER TRENCH DETAIL
SCALE 1:20



Code = BM1
Y = 83395.767
X = 3437491.644
Z = 335.597

Code = BM2
Y = 83303.638
X = 3437533.826
Z = 333.515

Code = BM3
Y = 83364.095
X = 3437564.908
Z = 332.798



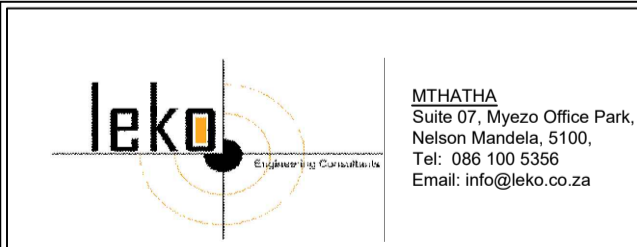
REV.	DESCRIPTION	DATE
A	FIRST ISSUE FOR APPROVAL	02/2017
B	SECOND ISSUE FOR APPROVAL 1. RAIN WATER TANKS ADDED 2. PIPELINES AND PUMP HOUSE ADDED	05/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU SPS

TITLE
WATER LAYOUT AND DETAILS

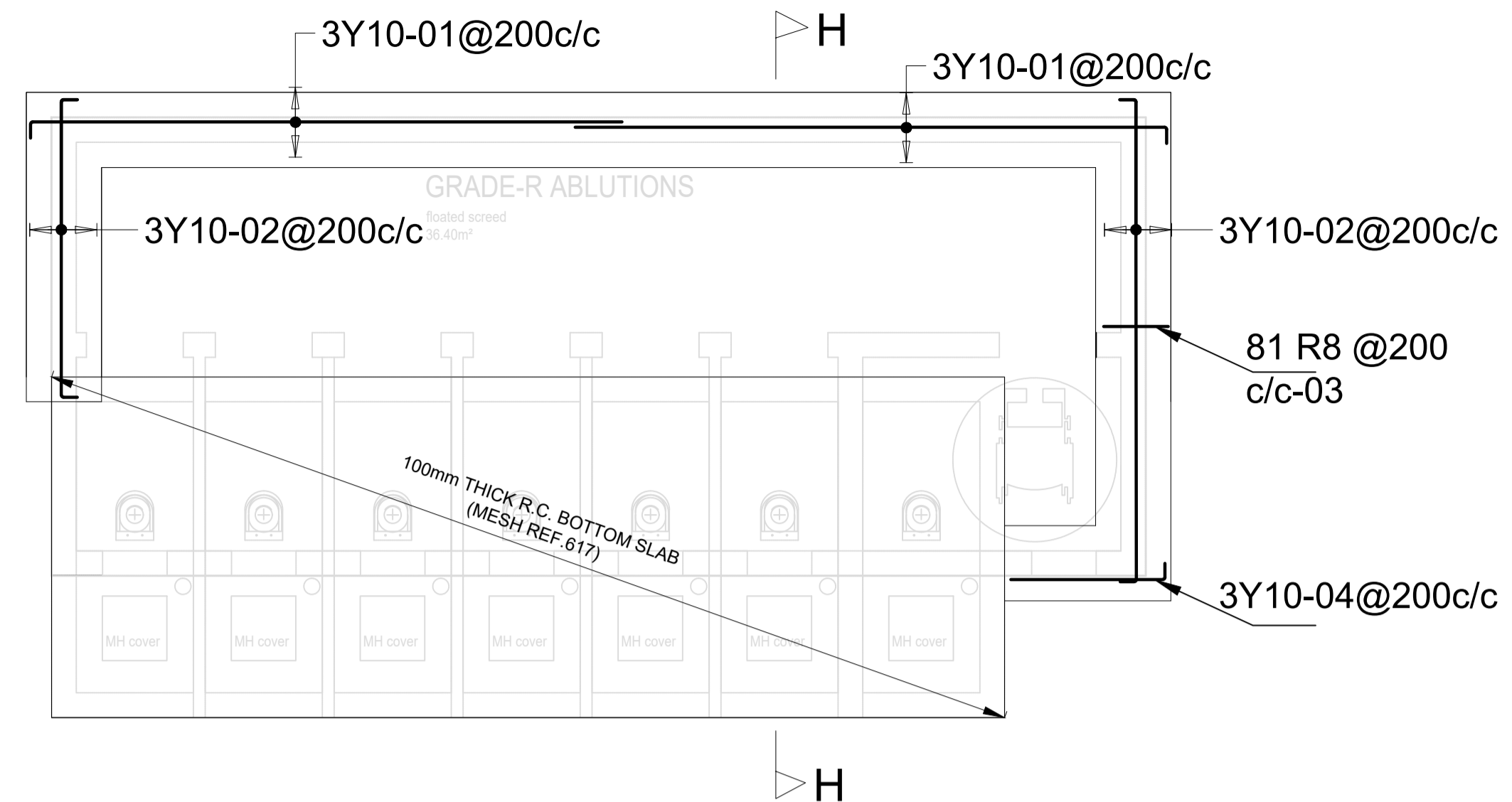


NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED: I. SOGOSHI			A1
DRAWN: B. DINGALUBALA			SCALE: 1:200
VERIFIED:			STATUS LEGEND:
VALIDATED:			SHEET: 1 OF 1

EMIS NUMBER: 200501240	DRAWING NO.: 1702-LIN-CIV-04	STATUS:
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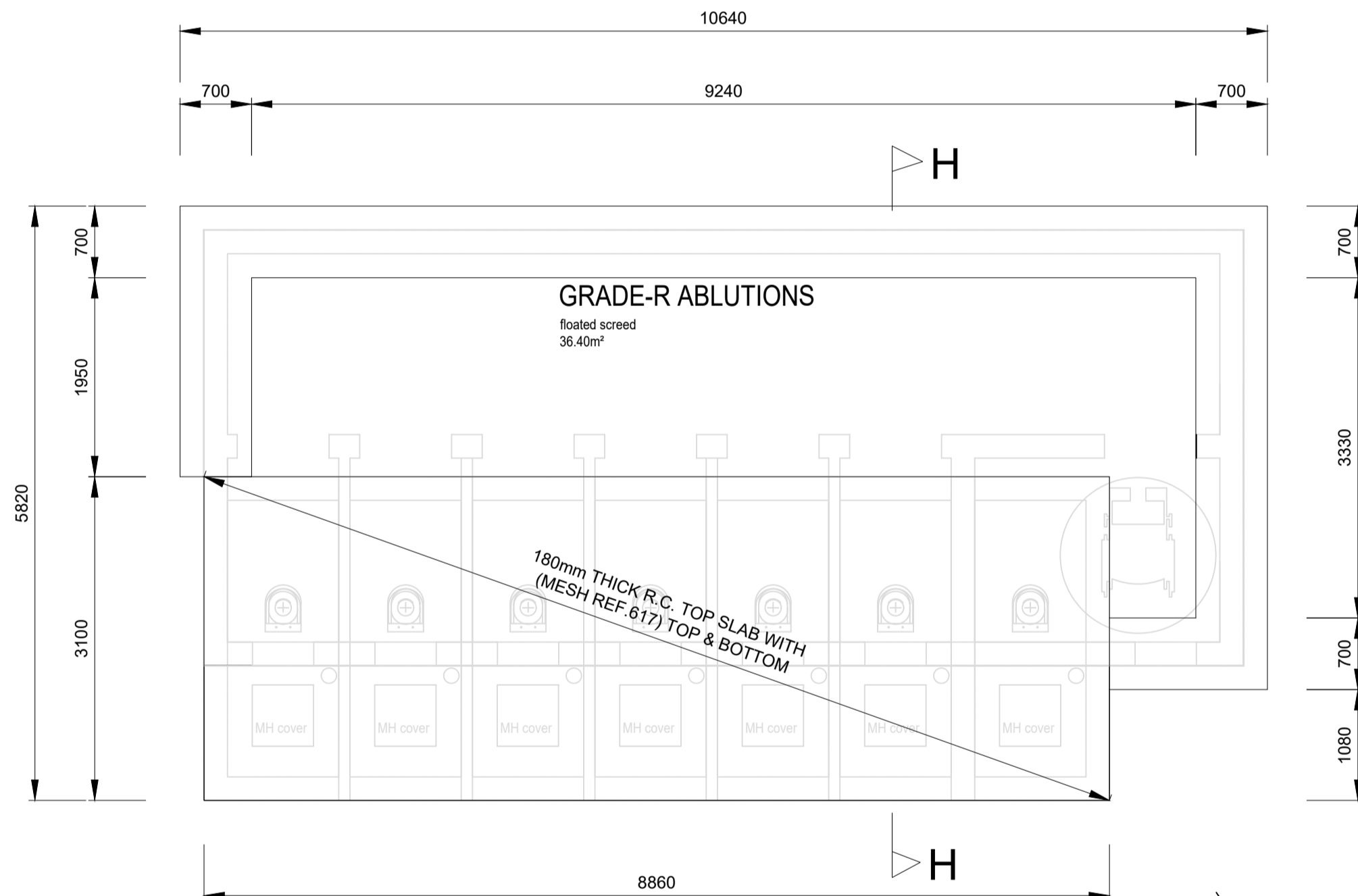
DISCIPLINE: CIVIL	REVISION NO.: B
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**STRUCTURAL ENG.
DRAWINGS**



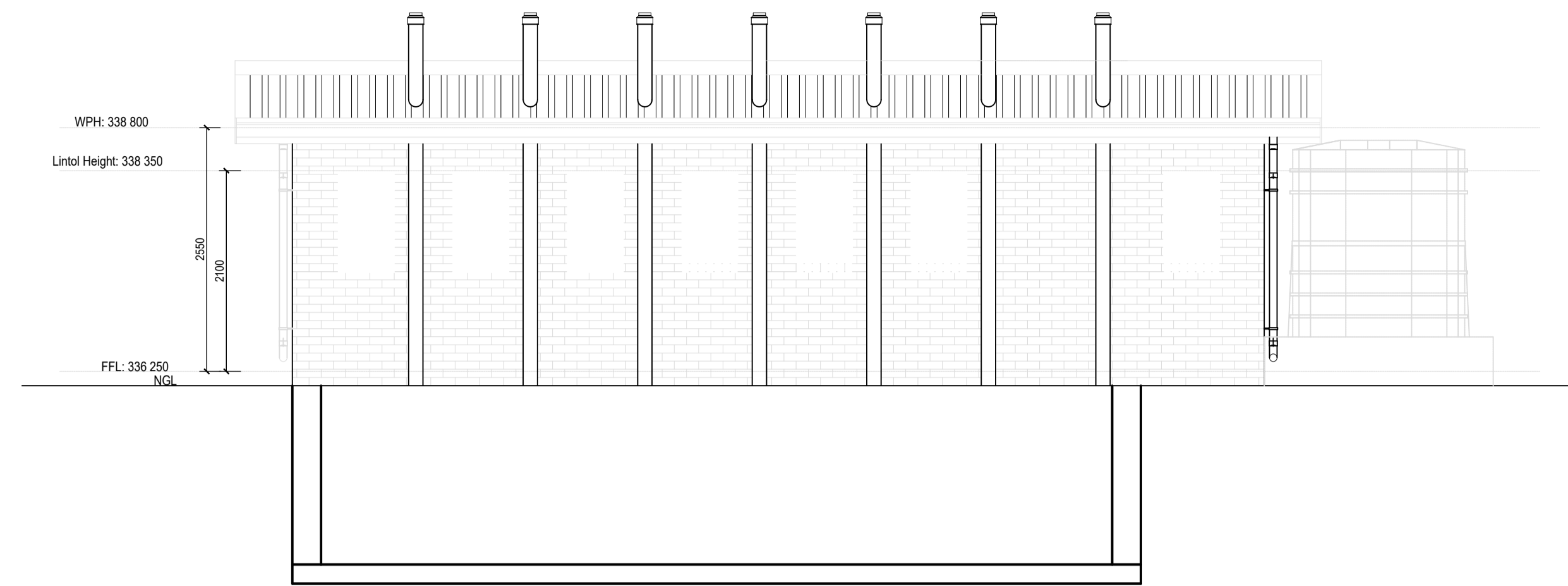
GRADE-R ABLUTION - REINFORCED FOUNDATION LAYOUT

SCALE 1:50



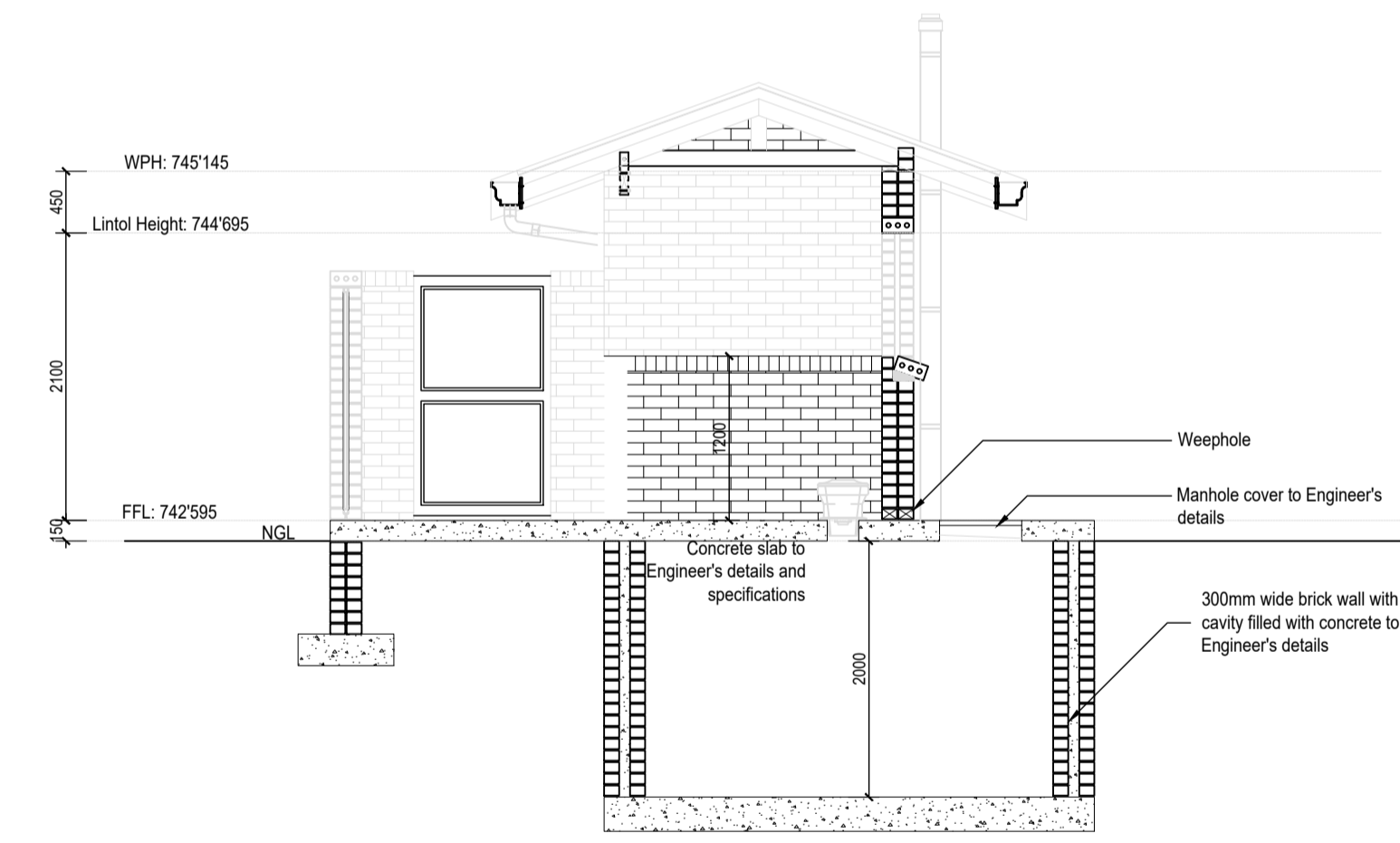
GRADE-R ABLUTION - REINFORCED FOUNDATION LAYOUT

SCALE 1:50



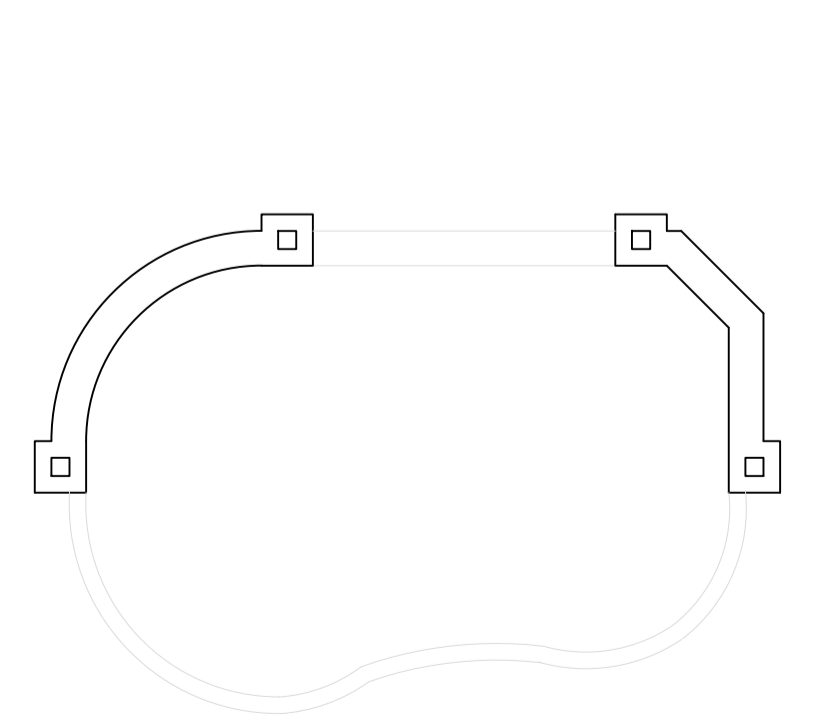
GRADE-R ABLUTION PIT SECTION-ELEVATION

SCALE 1:50



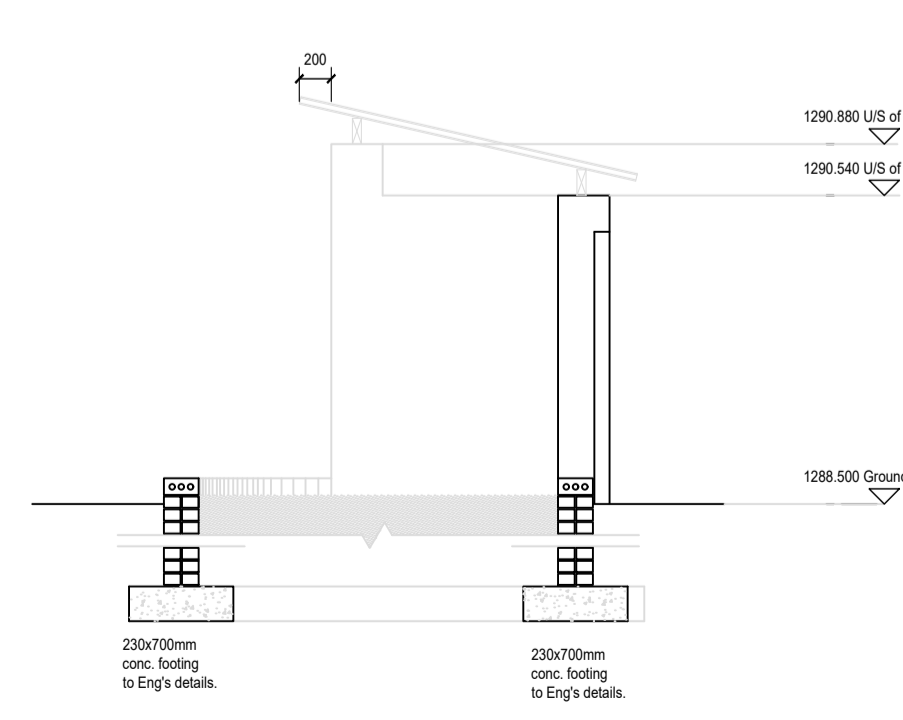
SECTION J-J

SCALE 1:50



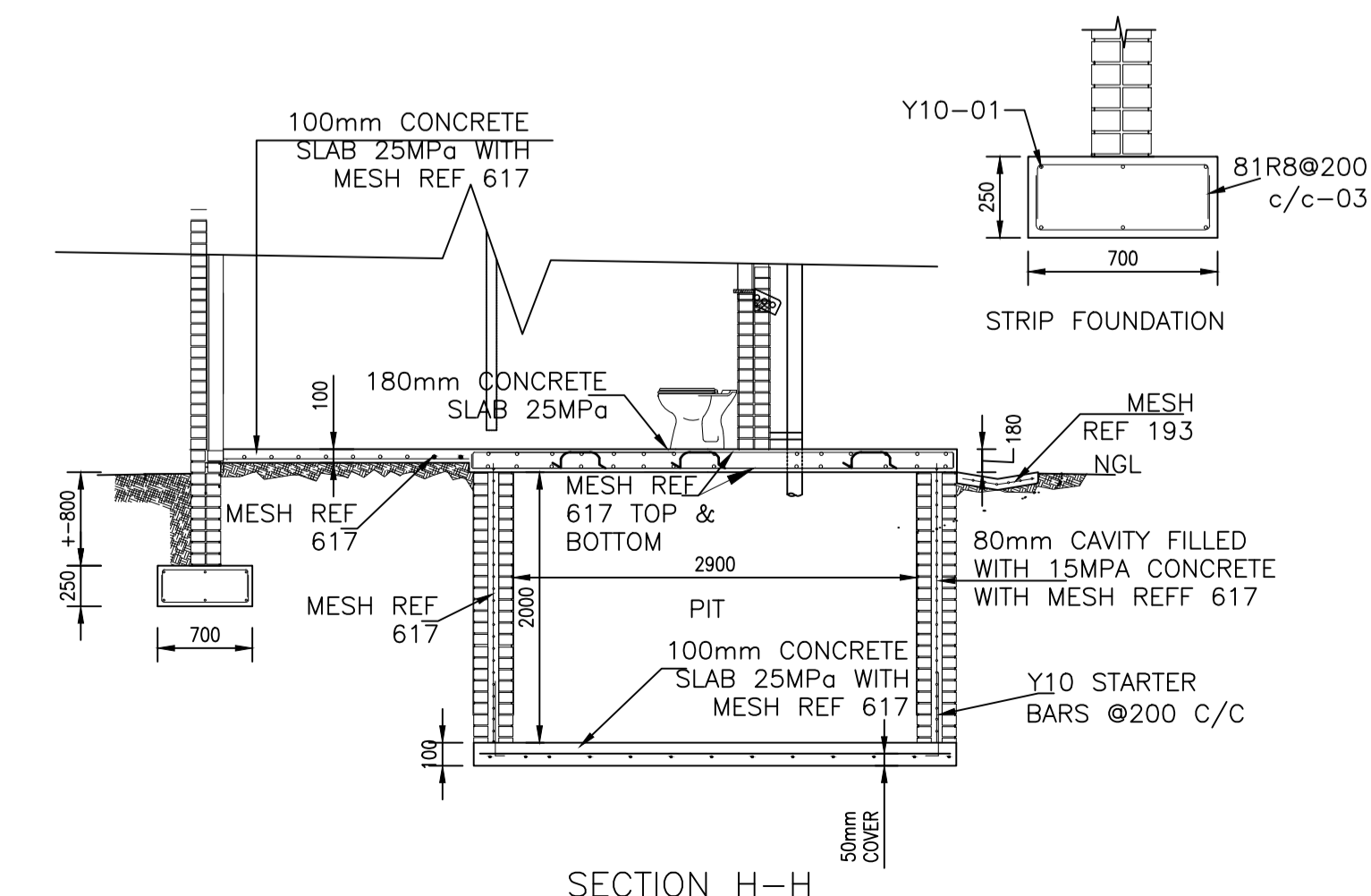
SAND PIT - FOUNDATION LAYOUT

SCALE 1:50



SECTION

SCALE 1:50



SECTION H-H

- NOTES:
- 1.0 SETTING OUT AND GENERAL
 - 1.1 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.
 - 1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.
 - 1.3 REFORM DIMENSIONS TO ARCHITECT OR ENGINEER.
 - 1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.
 - 1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION.
 - 1.6 STRUCTURE WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.S SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.S 1200.
 - 1.7 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS FOR DIMENSIONS, STOREMETER OUTLETS, RWOPS AND HOLES AND BREEZERS FOR THESE SERVICES. NO HOLES ARE TO BE CURED WITHOUT ENGINEER'S WRITTEN APPROVAL.
 - 2.0 FOUNDATIONS
 - 2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.
 - 2.2 NO FOUNDATIONS ARE TO BE CAST WITH MAXIMUM. A 50mm THICK LAYER OF 10MPa BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.
 - 2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa CONCRETE AT THE CONTRACTOR'S EXPENSE.
 - 2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL, COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - 2.5 ALL EARTHWORKS ARE TO BE DONE IN ACCORDANCE WITH S.A.S 1200 SPECIFICATIONS.
 - 2.6 ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES TO BE 100kPa.
 - 2.7 ALLOWABLE BEARING PRESSURE UNDER STRIP FOOTINGS TO BE 100kPa.
 - 3.0 CONCRETE
 - 3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:
 - 3.2 STRIP FOOTINGS: 25MPa
 - 3.3 SURFACES: 25MPa
 - 3.4 SUSPENDED SLABS & BEAMS: 30MPa
 - 3.5 COLUMNS: 30MPa
 - 3.6 CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERusal AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEAS TO GIVE MINIMUM BLEED CHARACTERISTICS.
 - 3.7 NORMAL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 14 DAYS AFTER CASTING.
 - 3.8 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.S 1200S PERMISSIBLE DEVIATION RANGE OF ACCURACY CLASS UNLESS SPECIFIED OTHERWISE.
 - 3.9 CONCRETE CURE TEST TO BE SUBMITTED TIMOUSLY TO ENGINEER FOR PERusal, RECORDS, COMMENT AND APPROVAL.
 - 4.0 REINFORCEMENT
 - 4.1 CHARACTERISTIC STRENGTH:
 - 4.2 MILD STEEL: 250N/mm²
 - 4.3 HIGH YIELD STEEL: 450N/mm²
 - 4.4 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION.
 - 4.5 LAP LENGTH TO REINFORCING TO BE MINIMUM 40 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.
 - 4.6 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAP = 300mm UNLESS OTHERWISE NOTED.
 - 4.7 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO BE ENSURED THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAD BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.
 - 4.8 COVER TO REINFORCEMENT:
 - 4.9 STRIP FOOTINGS: 50mm
 - 4.10 GROUND BEAMS: 50mm
 - 4.11 CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.
 - 5.0 FORMWORK AND PROPPING
 - 5.1 PROPPING TIMES FOR:
 - 5.2 BEAM SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER, 4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.
 - 5.3 FLAT SLABS: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER, 4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.
 - 5.4 PROPPING TIMES FOR:
 - 5.5 SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER.
 - 5.6 CANTILEVER SLABS AND BEAMS: 21 DAYS IN HOT WEATHER, 28 DAYS IN COLD WEATHER.
 - 5.7 SUBJECT TO CURE TEST RESULT BEING SUBMITTED TIMOUSLY TO ENGINEER FOR APPROVAL.
 - 5.8 NO DEPROPPING OF SUSPENDED ELEMENTS UNITS ADVISED BY ENGINEER.
 - 5.9 CONCRETE FINISHES UNLESS NOTED OTHERWISE:
 - 5.10 COLUMN AND WALLS: OFF FINISH
 - 5.11 BEAMS AND SLAB SOFFIT: OFF FINISH
 - 5.12 TOP OF SUSPENDED SLABS: WOOD FLOAT
 - 5.13 SURFACE BEDS: POWER FLOAT
 - 5.14 SIDES OF GROUND BEAMS TO BE SHUTTERED.



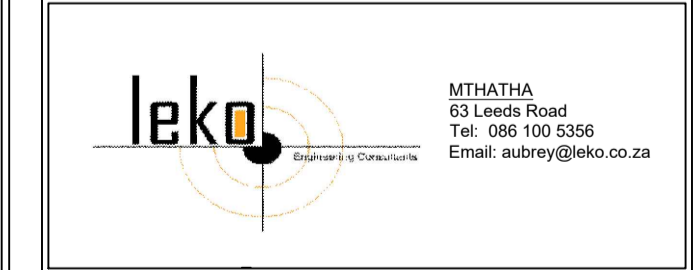
REV.	DESCRIPTION	DATE
C	SDP AND BUILDING LAYOUT REVISED	06/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT: DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU JPS

TITLE: **ABLUTION AND SAND PIT BLOCKS FOUNDATION LAYOUT, SURFACE BED & DETAILS**



NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED: B.DINGALUBALA		04/2023	A1
DRAWN: B.DINGALUBALA		04/2023	SCALE
VALIDATED: B.MQINGWANA		06/2023	AS SHOWN
			STATUS LEGEND
			SHEET: 1 OF 1

EMIS NUMBER: 200500413	DRAWING NO.: 1306-LIN-STR-04	STATUS:
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DISCIPLINE: STRUCTURAL	REVISION NO.: C
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BENDING SCHEDULE: ECD CENTRE VIP TOILETS

MEMBER	BAR MARK	TYPE & SIZE	No. OF MEMBERS	No. OF BARS	TOTAL No.	BAR LENGTH	SHAPE CODE	A mm	B mm
ECD Strip Foundation	01	R8	1	58	58	1660	60	150	600
	02	Y12	2	12	24	9200	20	9200	
	03	Y12	2	12	24	4600	20	4600	
	04	Y12	1	12	12	2100	20	2100	
Mesh Ref 2.45 with an area of				54.00 m ²	and a total mass of				132 kg

R-BARS = 38 kg

Y-BARS = 316 kg

BENDING SCHEDULE: ECD CENTRE VIP TOILETS (PIT)

MEMBER	BAR MARK	TYPE & SIZE	No. OF MEMBERS	No. OF BARS	TOTAL No.	BAR LENGTH	SHAPE CODE	A mm	B mm
ECD Raft Foundation	01	R8	1	46	46	1620	60	500	230
	02	R8	1	30	30	1460	60	500	150
	03	Y12	4	8	32	2000	34	1900	
	04	Y12	3	8	24	4000	20	3900	
Mesh Ref 2.45 with an area of				29.00 m ²	and a total mass of				71 kg

R-BARS = 47 kg

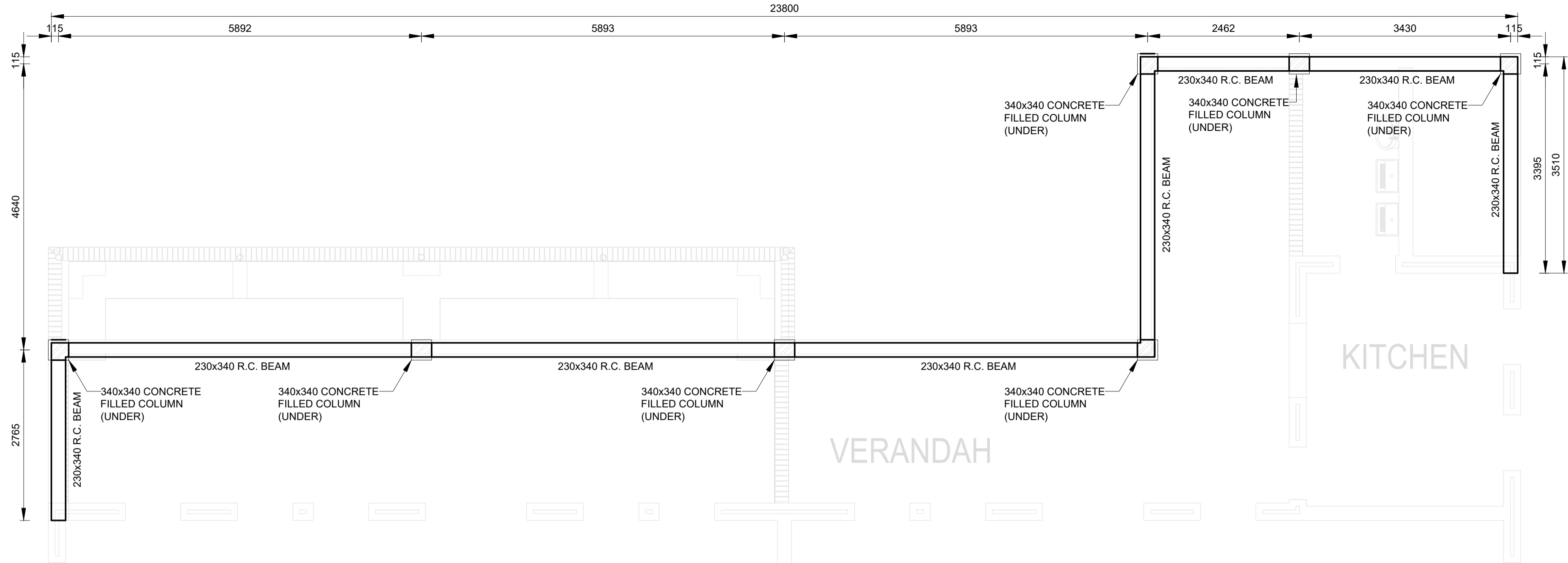
Y-BARS = 142 kg

BENDING SCHEDULE: FOUNDATION REINFORCEMENT

MEMBER	BAR MARK	TYPE & SIZE	No. OF MEMBERS	No. OF BARS	TOTAL No.	BAR LENGTH	SHAPE CODE	A mm	B mm
R.C. BENCH	A	Y12	2	4	8	3260	35	1500	50
	B	Y12	2	4	8	3081	35	3031	50
	C	Y12	2	4	8	3546	20	3546	
	D	Y12	1	4	4	1330	35	1280	50
	E	R10	1	38	38	550	35	500	50

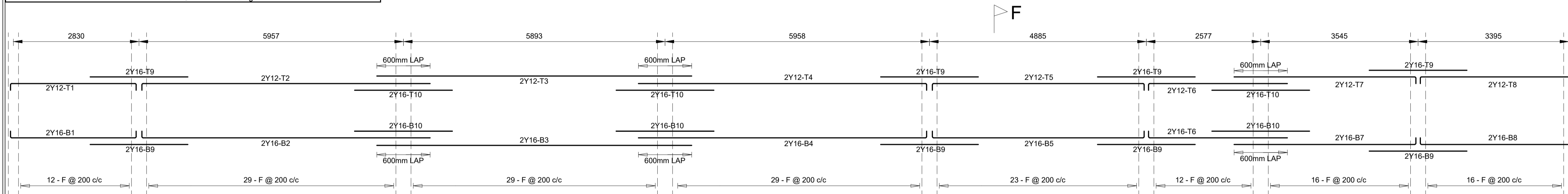
R-BARS = 13 kg

Y-BARS = 62 kg



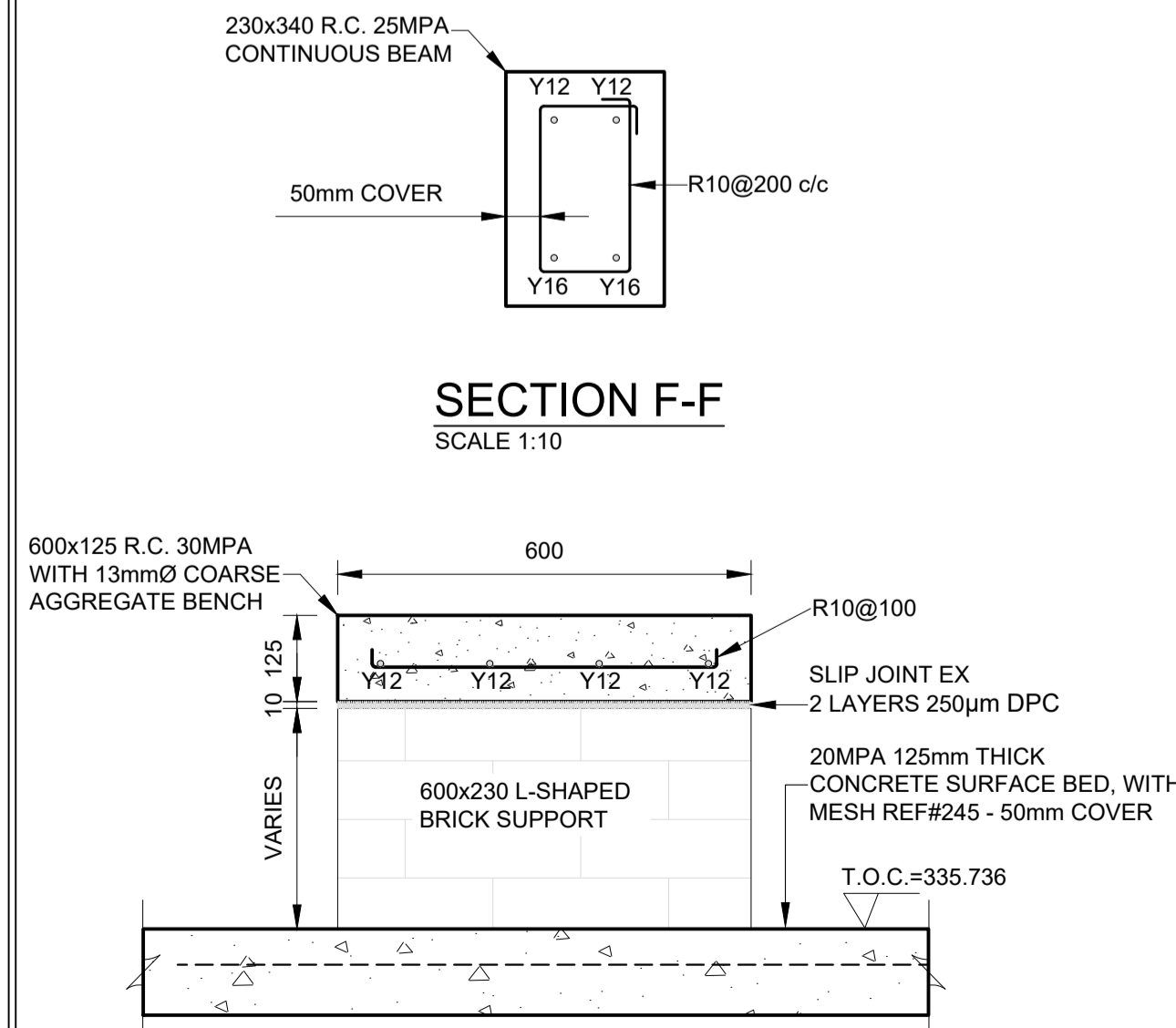
VERANDAH BEAM LAYOUT PLAN

SCALE 1:50



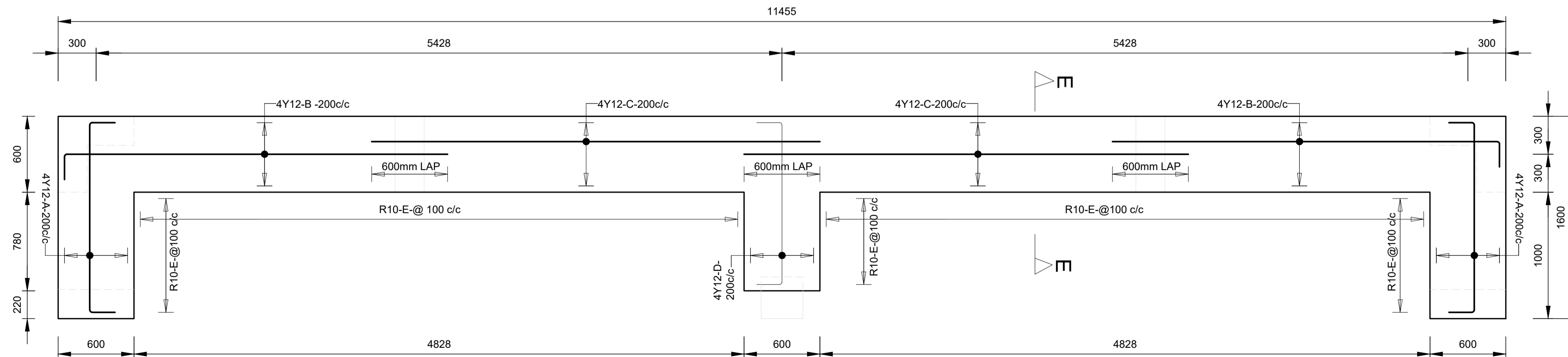
VERANDAH BEAM REINFORCEMENT

SCALE 1:50



SECTION E-E

SCALE 1:10



CONCRETE BENCH REINFORCEMENT LAYOUT

SCALE 1:25

- NOTES:**
1. SETTING OUT AND GENERAL.
 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.
 3. ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS SET OUT.
 4. REPORT DIMENSIONS TO ARCHITECT OR ENGINEER.
 5. THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS.
 6. FOR SETTING OUT, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION.
 7. STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.S SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.S 1200.
 8. CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND SPECIFICATIONS FOR DIMENSIONS, STOREMETER OUTLETS, ROPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CURED WITHOUT ENGINEER'S WRITTEN APPROVAL.
 9. FOUNDATIONS.
 10. FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.
 11. NO FOUNDATIONS ARE TO BE CAST WITH MATERIAL. A 50mm THICK LAYER OF 10MPa BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES. REINFORCED STRIP FOOTINGS AND GROUND BEAMS.
 12. ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa CONCRETE AT THE CONTRACTOR'S EXPENSE.
 13. BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 14. ALL EARTHWORKS ARE TO BE DONE IN ACCORDANCE WITH S.A.S 1200 SPECIFICATIONS.
 15. ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES TO BE 100kPa.
 16. ALLOWABLE BEARING PRESSURE UNDER STRIP FOOTINGS TO BE 100kPa.
 17. CONCRETE CHARACTERISTIC 28 DAY STRENGTH: BASES: 25MPa STRIP FOOTINGS: 25MPa SURFACE BEDS: 30MPa SUPERSEDED SLABS & BEAMS: 30MPa
 18. COLUMNS: CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR GENERAL AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.
 19. NORMAL CONCRETE TO BE CAST AT LEAST 10mm AFTER CASTING.
 20. ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 7 DAYS.
 21. ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.S 1200S PERMISSIBLE DEVIATION TOLERANCES OF ACCURACY CLASS UNLESS SPECIFIED OTHERWISE.
 22. CONCRETE CURB TEST TO BE SUBMITTED TIMOUSLY TO ENGINEER FOR PHYSICAL RECORDS COMMENT AND APPROVAL.
 23. REINFORCEMENT.
 24. CHARACTERISTIC STRENGTH: MILD STEEL: 250N/mm² HIGH YIELD STEEL: 450N/mm²
 25. ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. ALWAYS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION.
 26. LAP LENGTHS TO REINFORCING TO BE MINIMUM 40x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.
 27. MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAP: 300mm UNLESS OTHERWISE NOTED.
 28. THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.
 29. COVER TO REINFORCEMENT: STRIP FOOTINGS: 50mm GROUND BEAMS: 50mm
 30. CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.
 31. FORMWORK AND PROPPING.
 32. BEAM SHUTTERING: 7 DAYS IN HOT WEATHER. 12 DAYS IN COLD WEATHER.
 33. FLAT SLABS: 7 DAYS IN HOT WEATHER. 12 DAYS IN COLD WEATHER.
 34. PROPPING TIMES FOR: 7 DAYS IN HOT WEATHER. 14 DAYS IN COLD WEATHER.
 35. SLABS AND BEAMS: 14 DAYS IN HOT WEATHER. 21 DAYS IN COLD WEATHER.
 36. CANTILEVER SLABS AND BEAMS: 21 DAYS.
 37. SUBJECT TO CURB TEST RESULTS BEING SUBMITTED TIMOUSLY TO ENGINEER FOR APPROVAL.
 38. NO DEPROPPING OF SUSPENDED ELEMENTS UNTIL ADVISED BY ENGINEER.
 39. CONCRETE FINISHES UNLESS NOTED OTHERWISE: COLUMN AND WALLS: OFF SHUTTER BEAMS AND SLAB SOFFIT: OFF SHUTTER TOP OF SUPERSEDED SLABS: WOOD FLOAT SURFACE BEDS: POWER FLOAT SIDES OF GROUND BEAMS TO BE SHUTTERED.



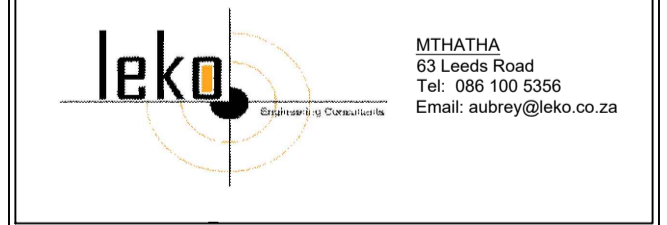
REV.	DESCRIPTION	DATE
C	SDP AND BUILDING LAYOUT REVISED	06/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU JPS

TITLE
GRADE - R
CONCRETE BENCH & VERANDAH BEAM



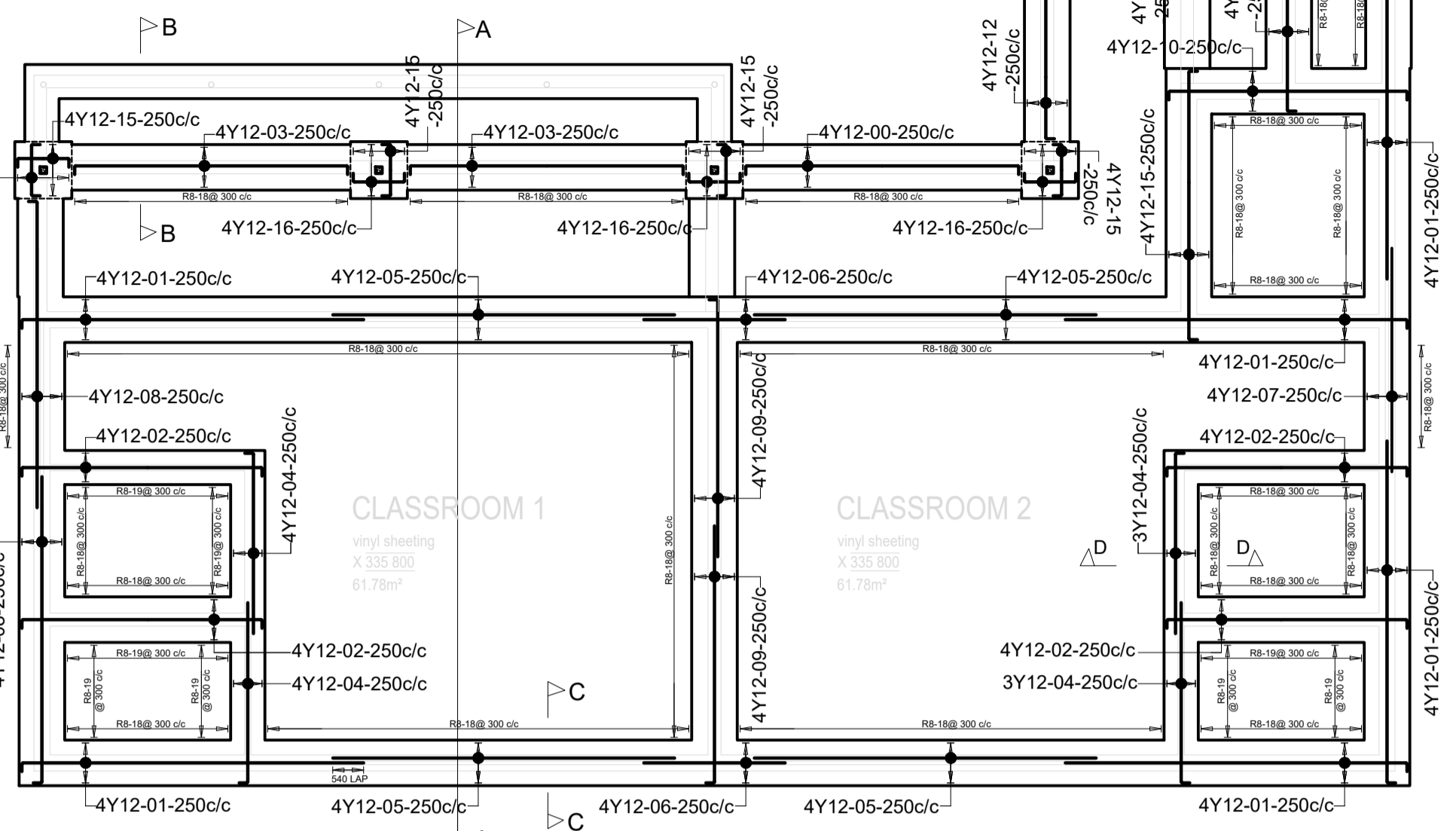
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DESIGNED	B.DINGALIBALA	04/2023	A1
DRAWN	B.DINGALIBALA	04/2023	SCALE
VALIDATED	B.MGQINGWANA	06/2023	AS SHOWN
			STATUS LEGEND
			SHEET 11 OF 1

EMIS NUMBER	DRAWING NO.	STATUS
200500413	1306-LIN-STR-02	

DISCIPLINE	REVISION NO.
STRUCTURAL	C

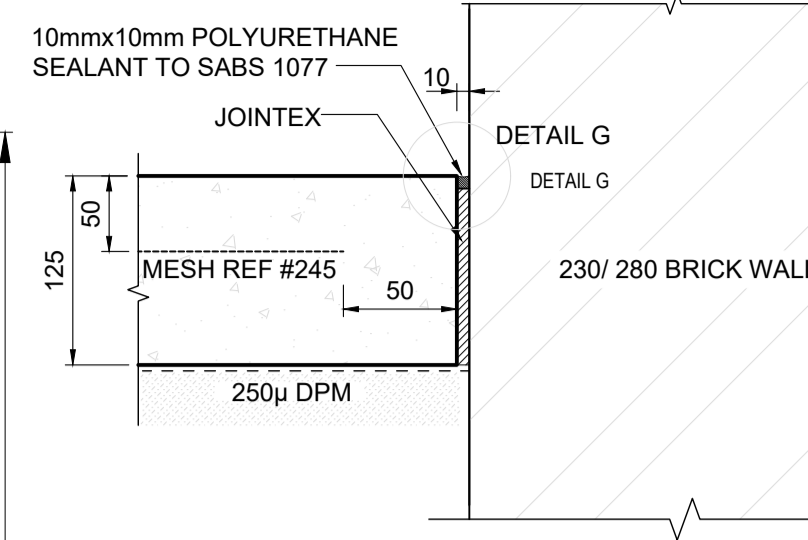
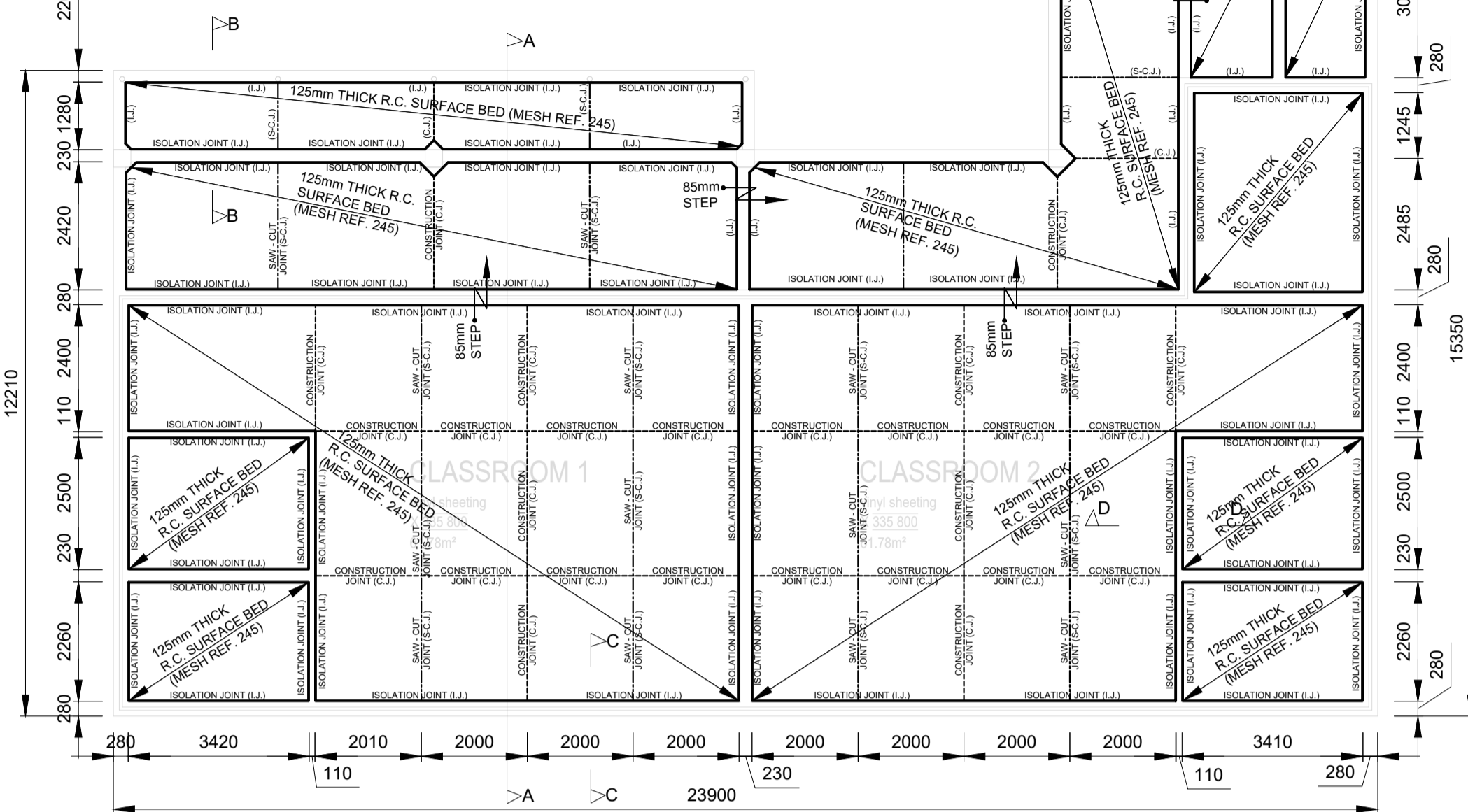
FOUNDATION REINFORCEMENT LAYOUT

SCALE 1:100



SURFACE BED LAYOUT

SCALE 1:100

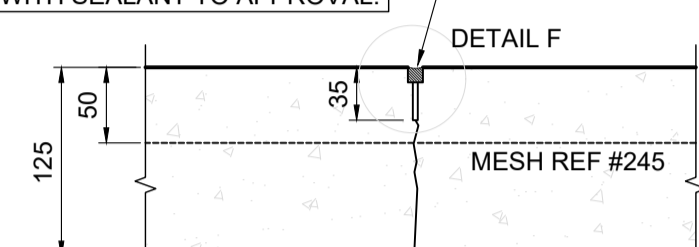


ISOLATION JOINT DETAIL

SCALE 1:5

JOINT TO BE SAWN WITHIN 24hrs AFTER PLACING OF CONCRETE

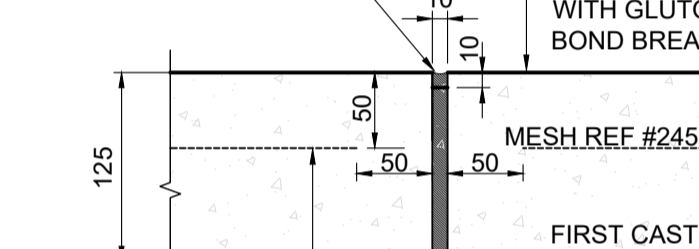
SAW JOINT TO BE SEALED WITH SEALANT TO APPROVAL.



SAW-CUT JOINT DETAIL

SCALE 1:5

THIS SIDE OF JOINT TO BE CAST FIRST AND TO BE COATED WITH GLUTONE AS A BOND BREAKER

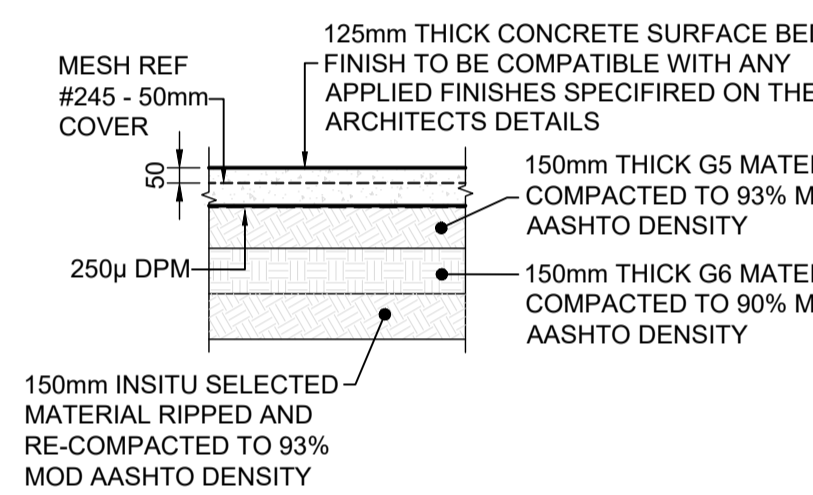
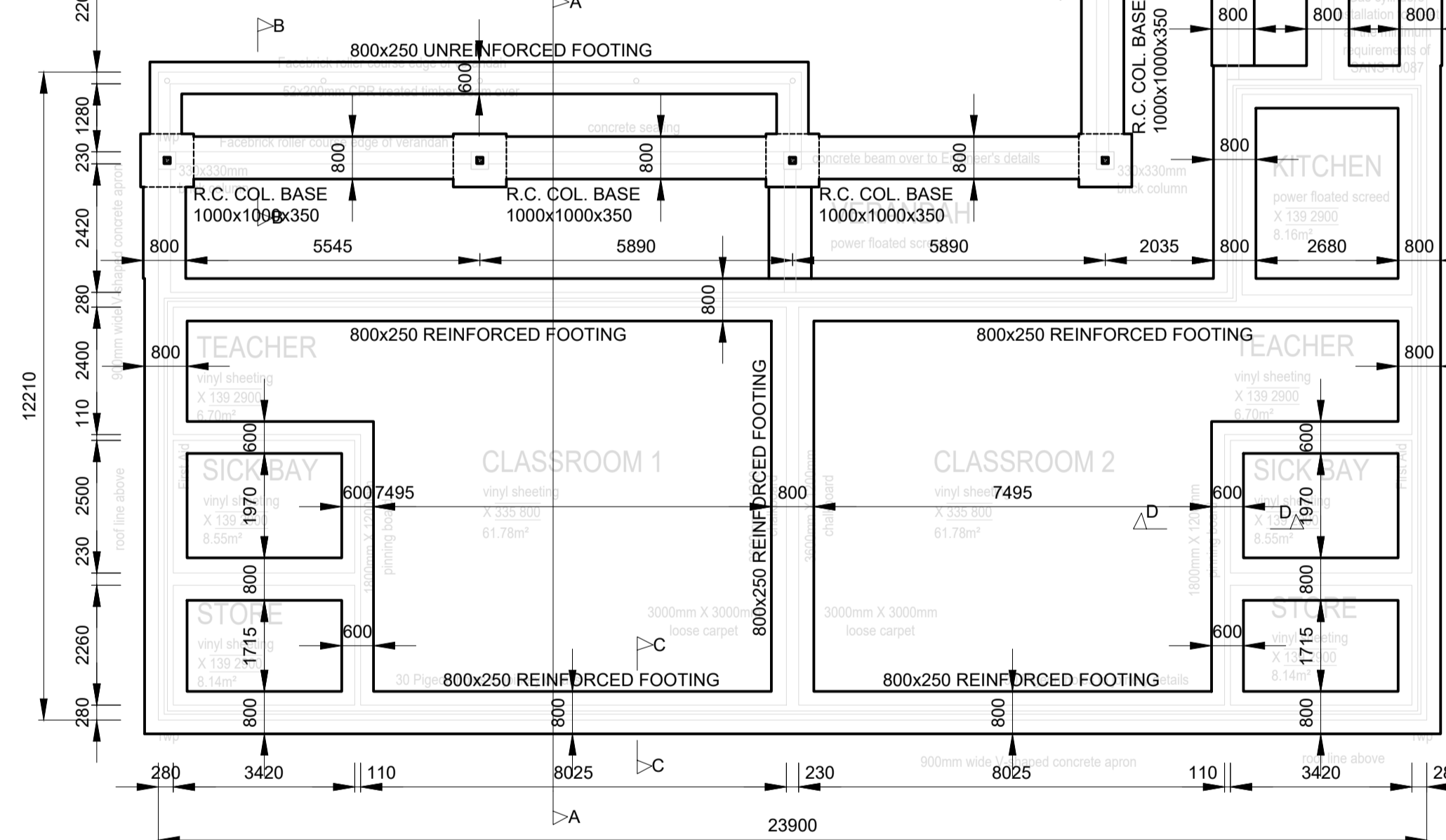


CONSTRUCTION JOINT DETAIL

SCALE 1:5

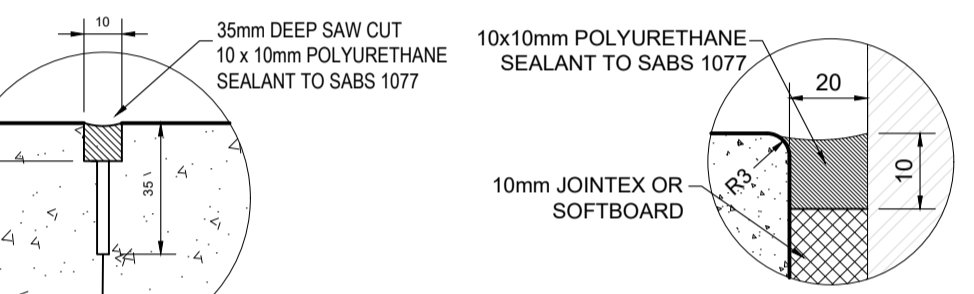
FOUNDATION CONCRETE LAYOUT

SCALE 1:100



SECTION THROUGH SURFACE BED

SCALE 1:25

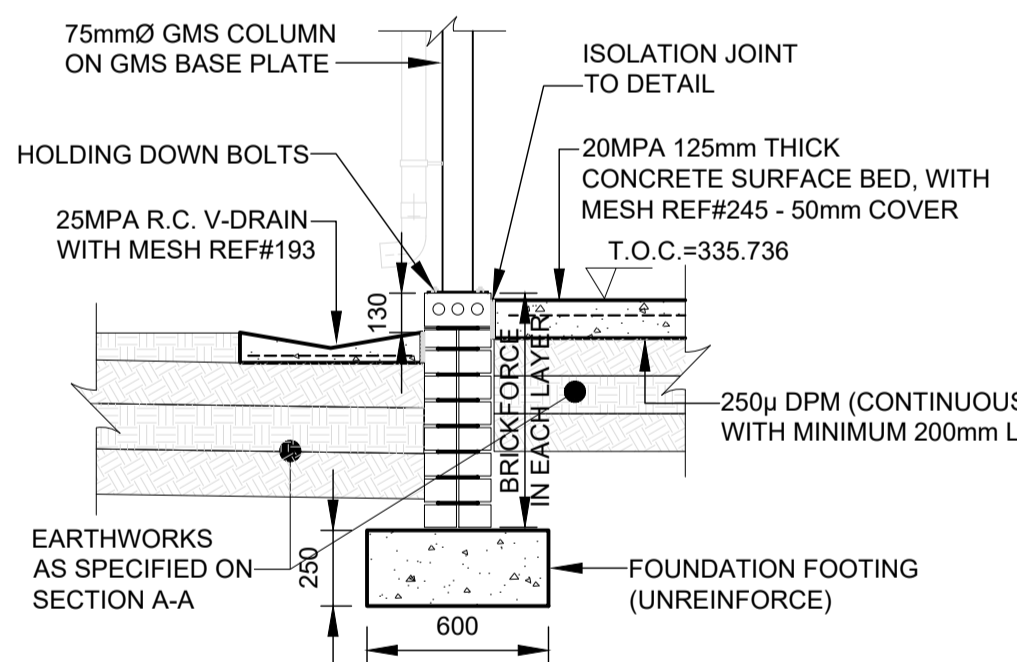


DETAIL F

SCALE 1:2

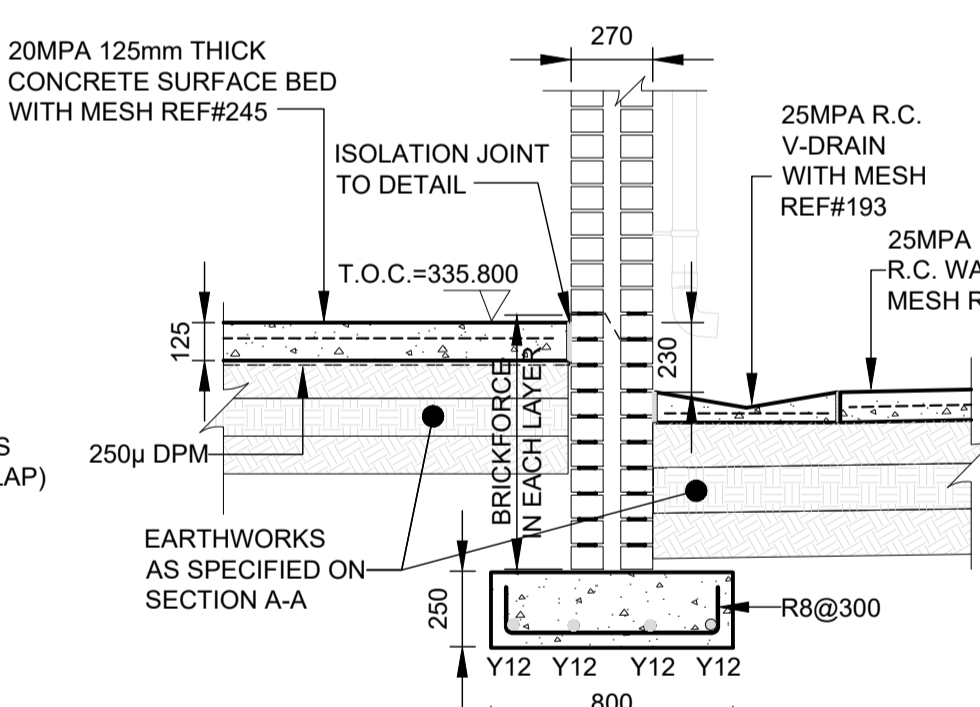
DETAIL G

SCALE 1:1



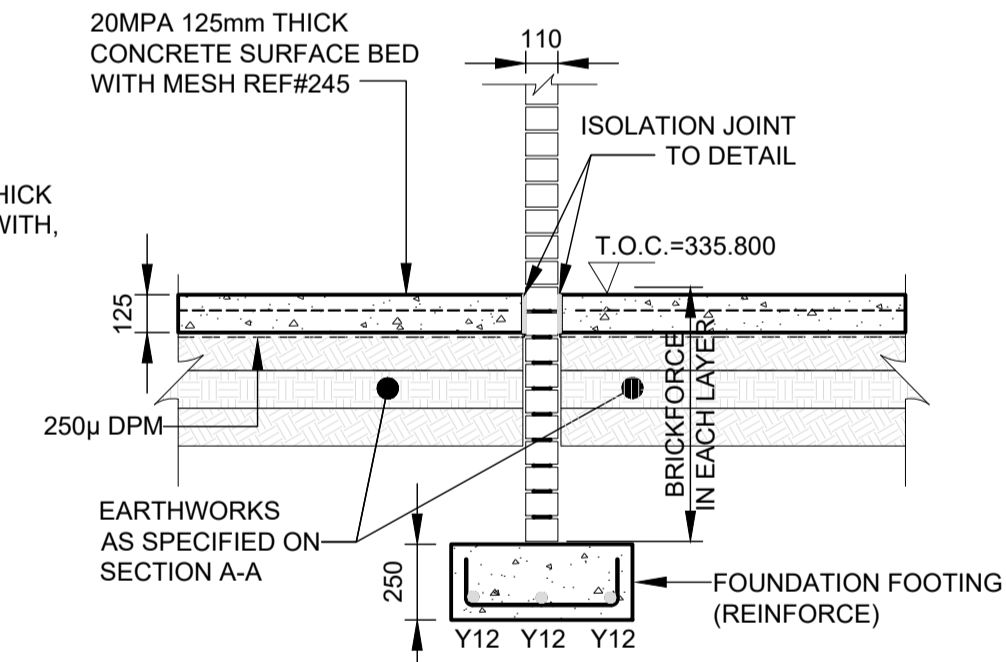
SECTION B-B

SCALE 1:25



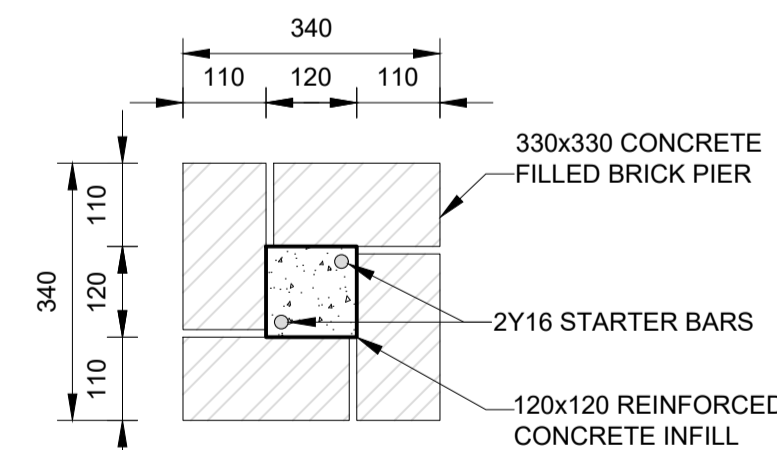
SECTION C-C

SCALE 1:25



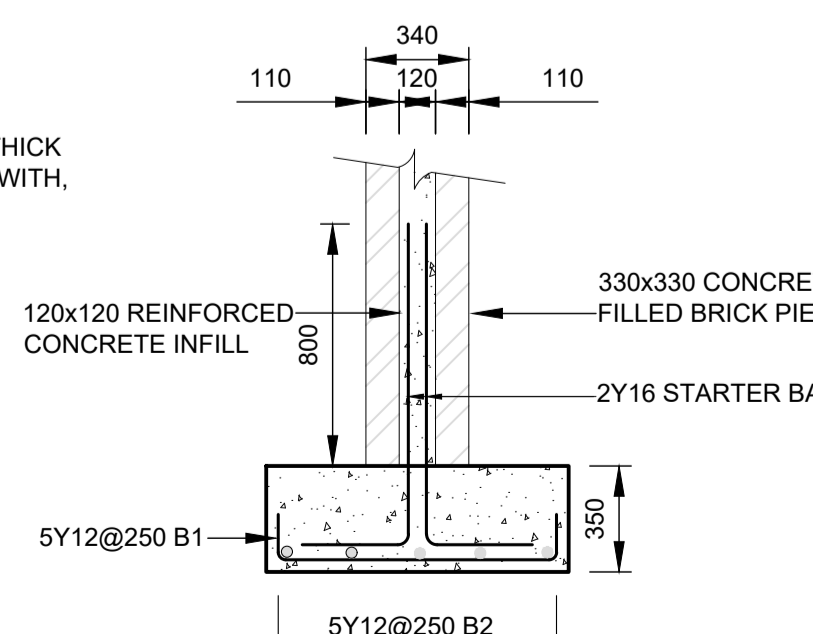
SECTION D-D

SCALE 1:25



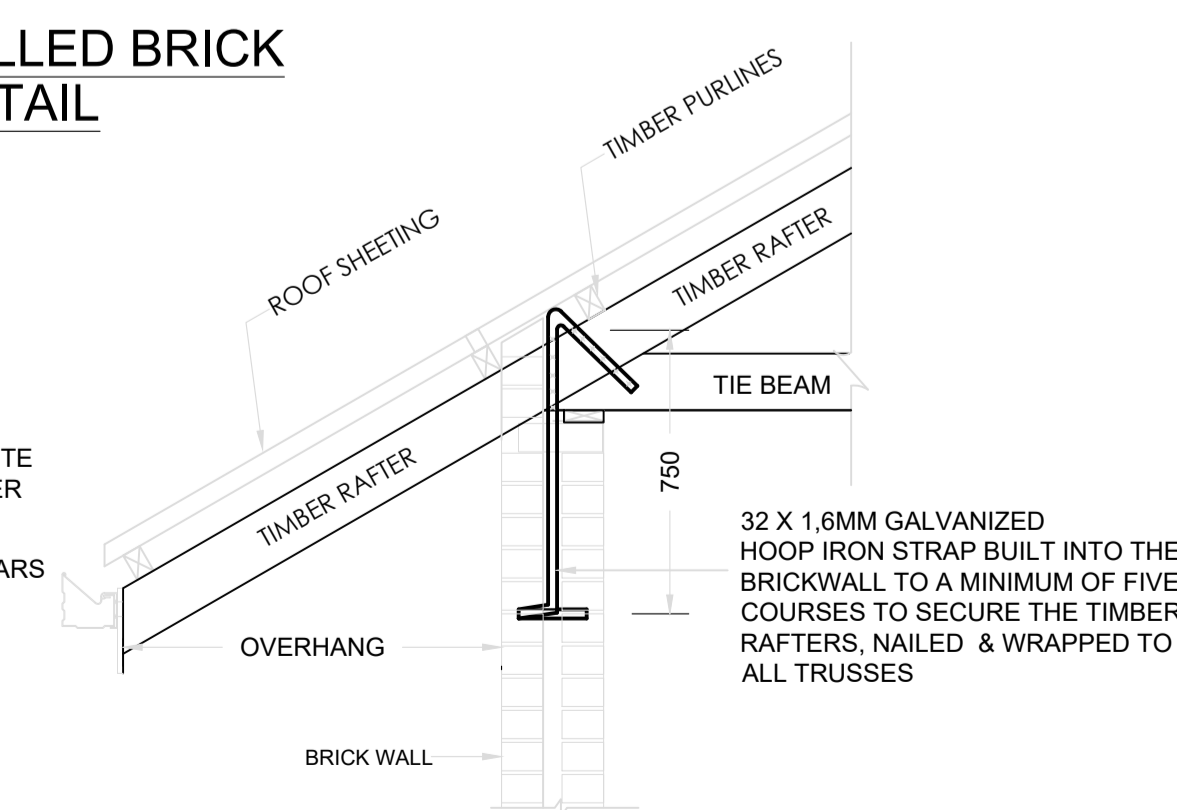
CONCRETE FILLED BRICK PIER PLAN DETAIL

SCALE 1:10



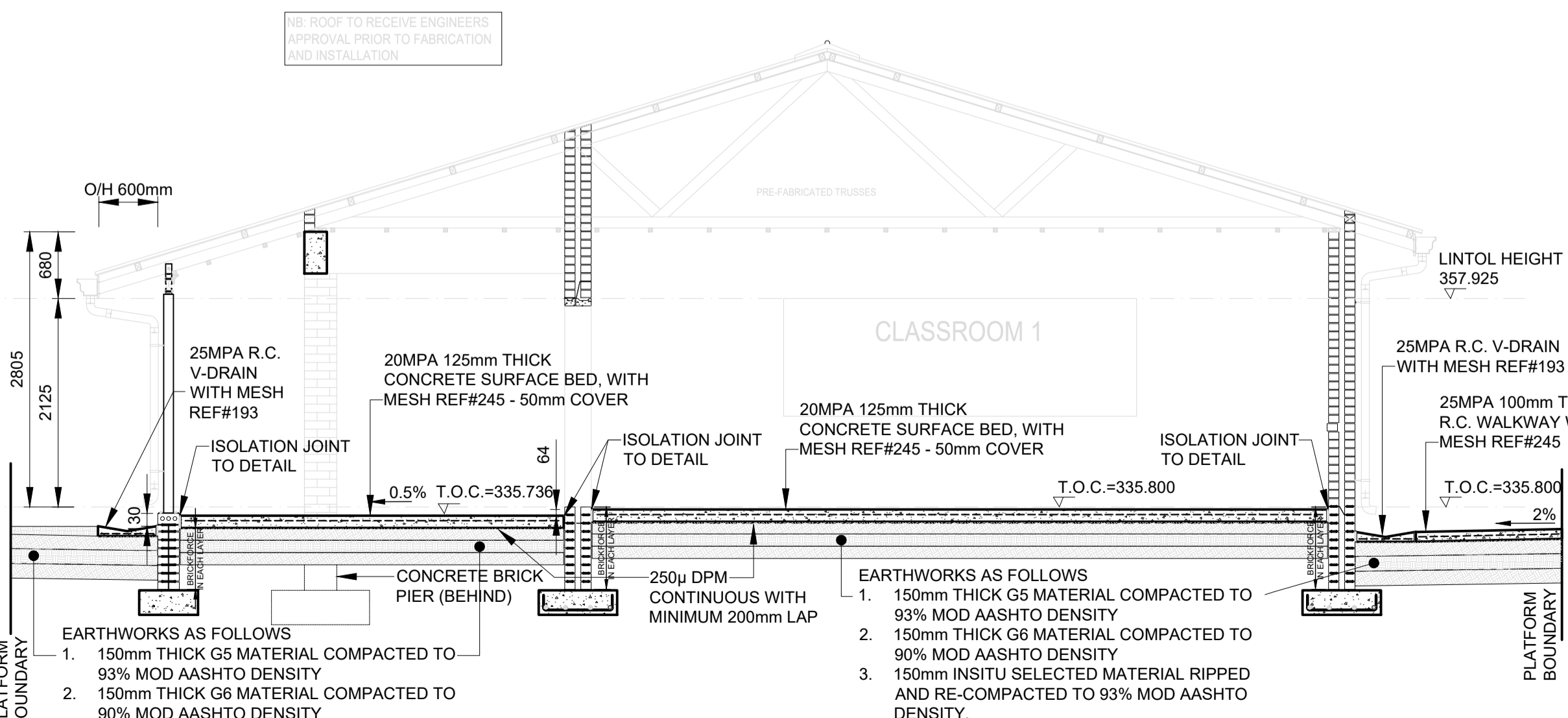
SECTION THROUGH COLUMN AND BASE

SCALE 1:25



ROOF TRUSS TO WALL ENCORING DETAIL

SCALE 1:20



TYPICAL SECTION A - A

SCALE 1:50

BENDING SCHEDULE: PLAY AREA									
MEMBER	MARK	BAR TYPE	No. OF MEMBERS	No. OF BARS	TOTAL No.	BAR LENGTH	SHAPE CODE	A	B
Play Area									
01	R8		8	7	56	1660	60	150	600
02	Y12		8	6	48	2600	20	2600	
15	Y12		4	16	64	1000	35	800	
Mesh Ref 2,45 with an area of				325,00 m ²		and a total mass of		799 kg	
				R-BARS =		37 kg			
				Y-BARS =		168 kg			

- NOTES:
- 1.0 SETTING OUT AND GENERAL
 - 1.1 THE DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS
 - 1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS SET OUT
 - 1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER
 - 1.4 THE DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS REQUIRED
 - 1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION
 - 1.6 STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.S. SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.S. 12003
 - 1.7 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, PROPS AND HOLDS & SLICES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL
 - 2.1 ALL FOUNDATION EXCAVATIONS TO BE IDENTIFIED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST
 - 2.2 ALL FOUNDATION EXCAVATIONS TO BE IDENTIFIED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST
 - 2.3 ALL FOUNDATION EXCAVATIONS TO BE IDENTIFIED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST
 - 2.4 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa CONCRETE AT THE CONTRACTOR'S EXPENSE
 - 2.5 BACKFILL OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
 - 2.6 ALL BATHWORKS ARE TO BE DONE IN ACCORDANCE WITH S.A.S. 12003 SPECIFICATIONS
 - 2.7 ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES TO BE 100kPa
 - 2.8 ALLOWABLE BEARING PRESSURE UNDER STRIP FOOTINGS TO BE 100kPa
 - 3.0 CONCRETE
 - 3.1 CHARACTERISTIC 28 DAY STRENGTH:
 - BASES: 25MPa
 - SURFACE BEDS: 20MPa
 - SUSPENDED SLABS & BEAMS: 20MPa
 - COLUMNS: 20MPa
 - WALKWAYS: 20MPa
 - 3.2 CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERMANENT AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BULK CURRY BY WEIGHT
 - 3.3 NORMAL CONCRETE AGGREGATE SIZE = 19mm
 - 3.4 ALL CONCRETE TO BE MOISTURE CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 7 DAYS AFTER CASTING
 - 3.5 ALL CONCRETE TO BE CONTRACTED TO THE S.A.S. 12003 PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE
 - 3.6 CONCRETE CURS TESTS TO BE SUBMITTED TIMELY TO ENGINEER FOR PERMANENT RECORDS, COMMENT AND APPROVAL
 - 4.1 CHARACTERISTIC STRENGTH:
 - MILD STEEL: 250N/mm²
 - HIGH YIELD STEEL: 600N/mm²
 - 4.2 ALL REINFORCEMENT IS TO BE IDENTIFIED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48-HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE THE REINFORCEMENT IS TO BE IDENTIFIED AND APPROVED BY ENGINEER
 - 4.3 LAPS TO BE IDENTIFIED TO BE MINIMUM 36x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED
 - 4.4 MINIMUM OVERLAP TO BE IDENTIFIED TO BE MINIMUM 36x TOP MINIMUM LAPS + 300mm UNLESS OTHERWISE NOTED
 - 4.5 THE CONTRACTOR MUST BE RESPONSIBLE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT
 - 4.6 COVER TO REINFORCEMENT:
 - STRIP FOOTINGS: 50mm
 - BASES: 50mm
 - WALKWAYS: 50mm
 - WALLS: 50mm
 - SLABS: 25mm
 - BEAM SHUTTERING: 75mm IN HOT WEATHER, 125mm IN COLD WEATHER, 40mm IN HOT WEATHER, 75mm IN COLD WEATHER
 - FLAT SLABS: 75mm IN HOT WEATHER, 125mm IN COLD WEATHER
 - 4.7 PROPPING TIMES FOR:
 - SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER
 - CANTILEVER SLABS AND BEAMS: 21 DAYS
 - 4.8 NO DEPROPPING OF SUSPENDED ELEMENTS UNTIL ADVISED BY ENGINEER
 - 4.9 CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION
 - 5.1 FORMWORK AND PROPPING:
 - FORMWORK AND PROPPING: OFF SHUTTER
 - TOP OF SUSPENDED SLABS: WOOD FLOAT
 - SURFACE BEDS: POWER FLOAT
 - SIDES OF GROUND BEAMS TO BE SHUTTERED

education
Department of Education
REPUBLIC OF SOUTH AFRICA

iot
independent development trust

REV.	DESCRIPTION	DATE
C	SDP AND BUILDING LAYOUT REVISED	06/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU JPS

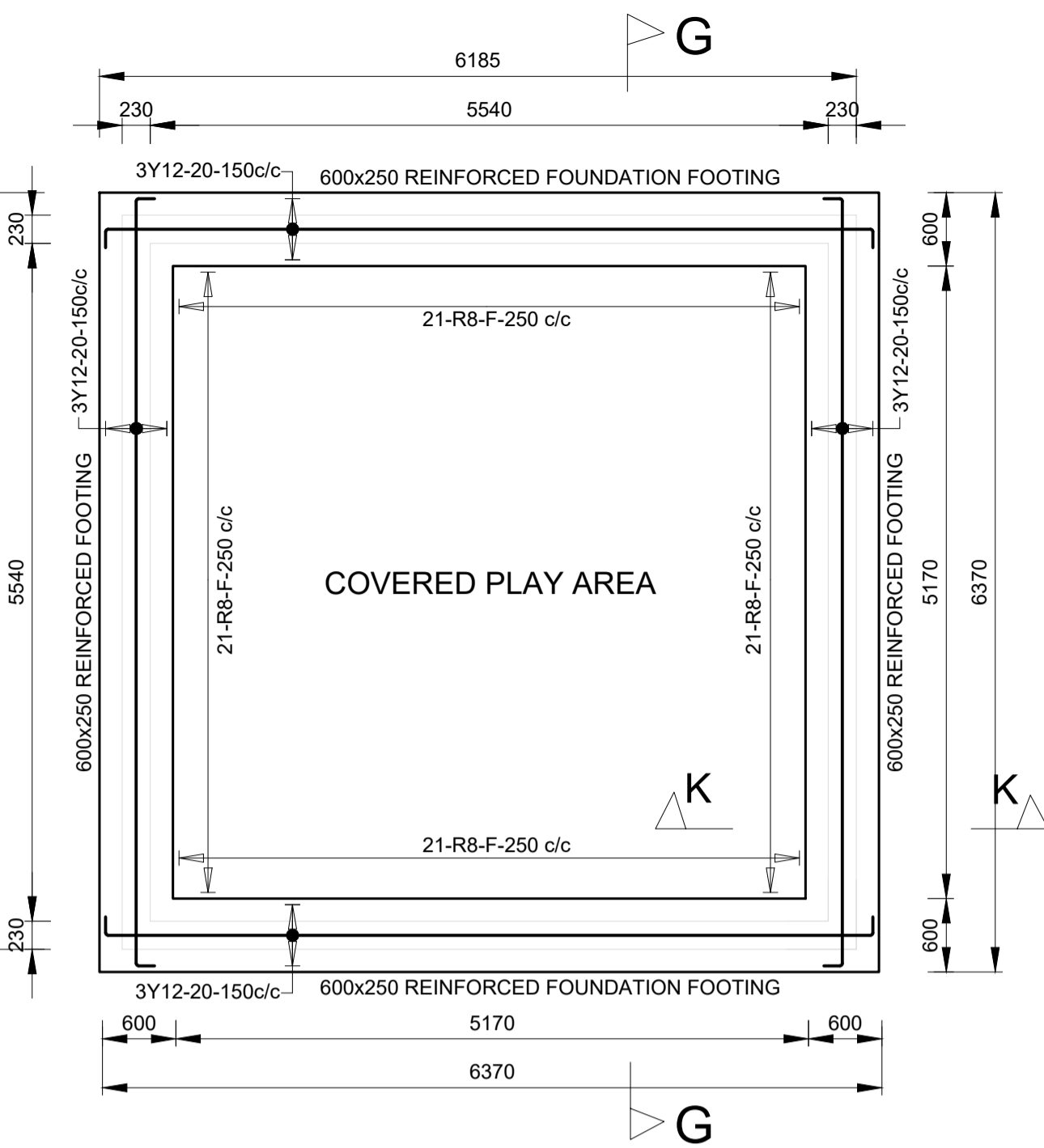
TITLE
GRADE - R
FOUNDATION AND SURFACE BED LAYOUT & DETAILS

leko
MTHATHA
63 Lwazi Road
Tel: 086 100 5356
Email: subrey@leko.co.za

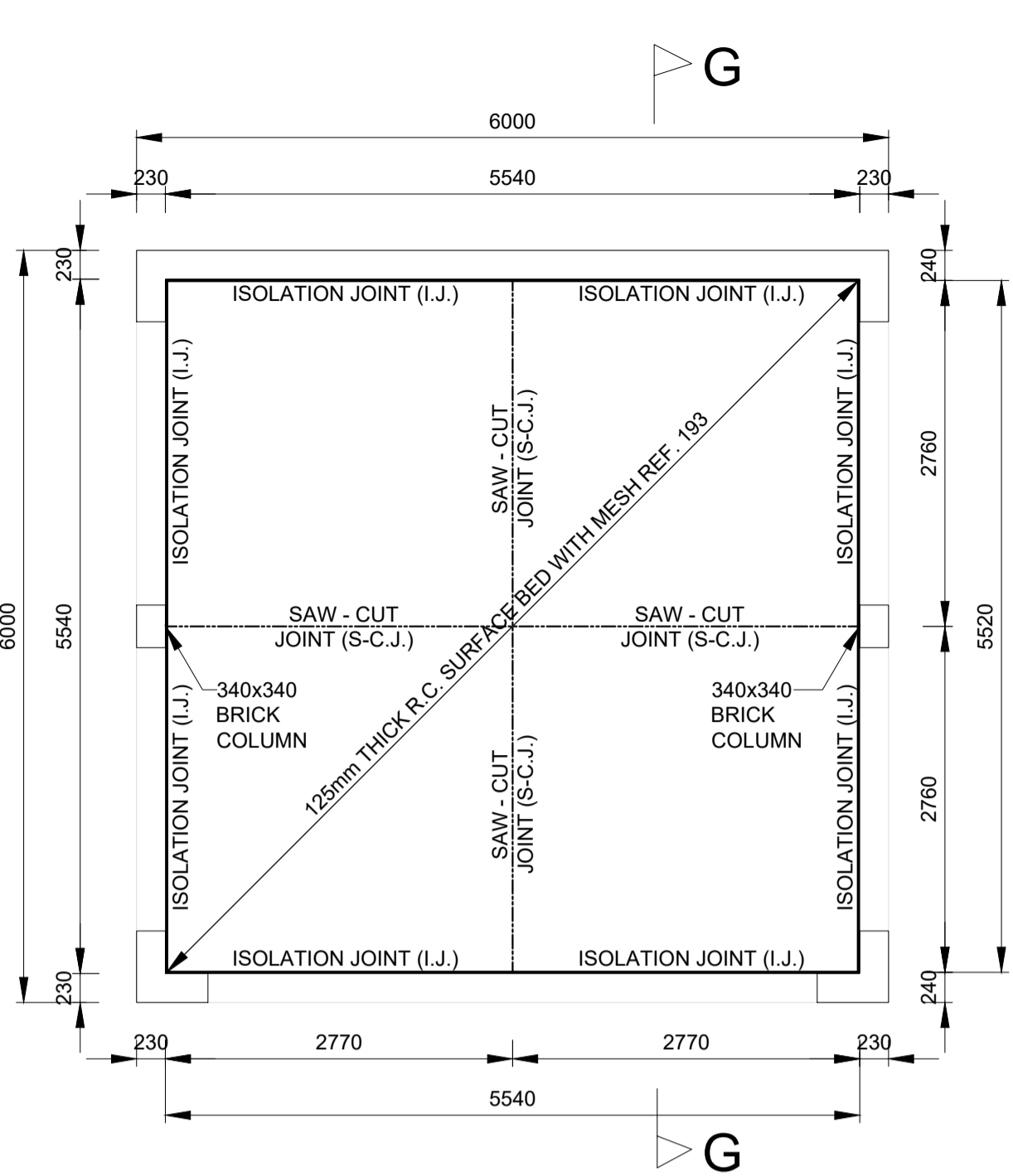
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DESIGNED: B.DINGALBALA		06/2023	A1
DRAWN: B.DINGALBALA		06/2023	SCALE
VALIDATED: B.MONGWANA		06/2023	AS SHOWN
VALIDATED: B.MONGWANA		06/2023	STATUS LEGEND

EMIS NUMBER: 200500413
DRAWING NO.: 13284UN-STR-01
STATUS: _____

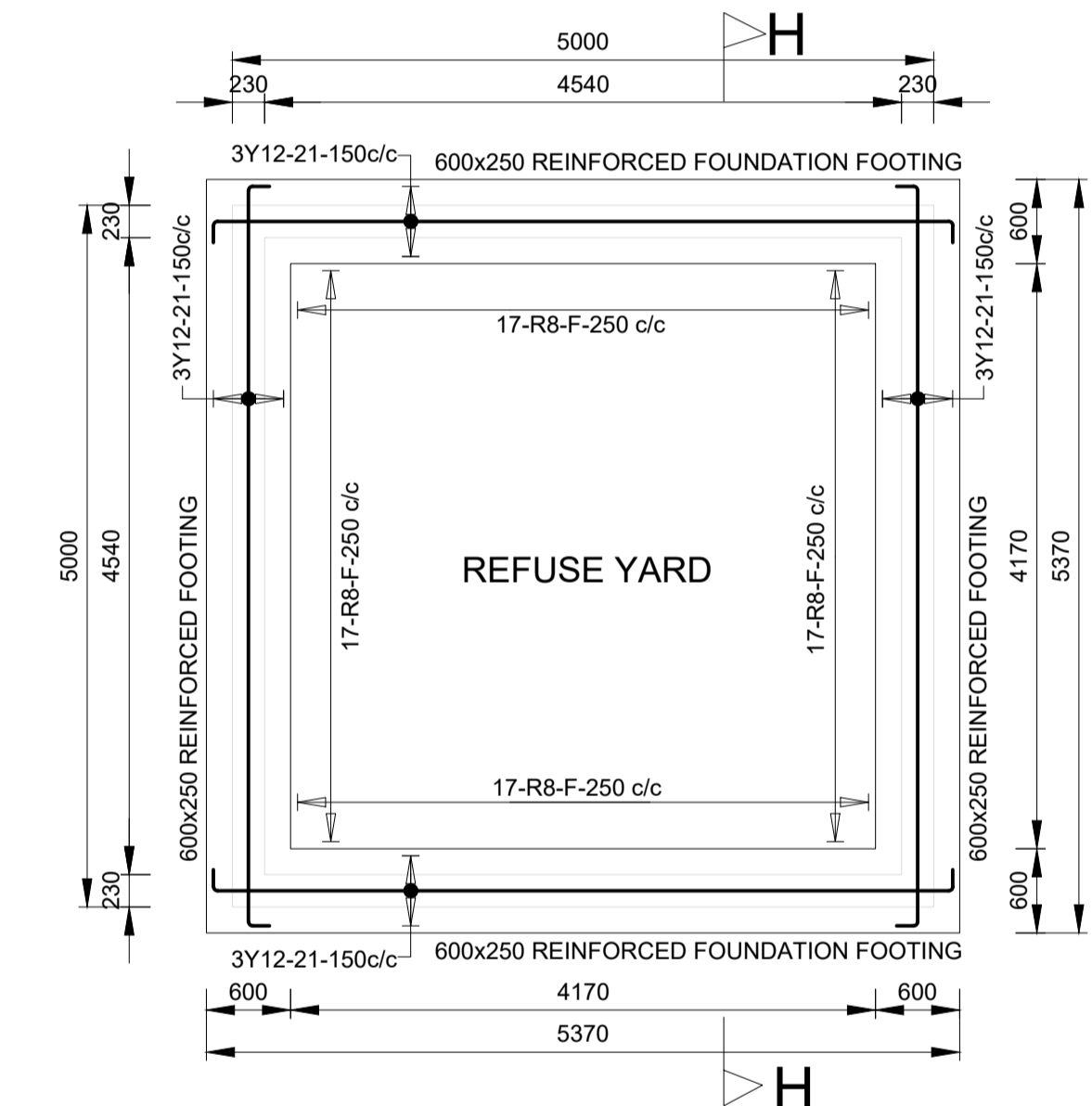
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REVISION NO.: C



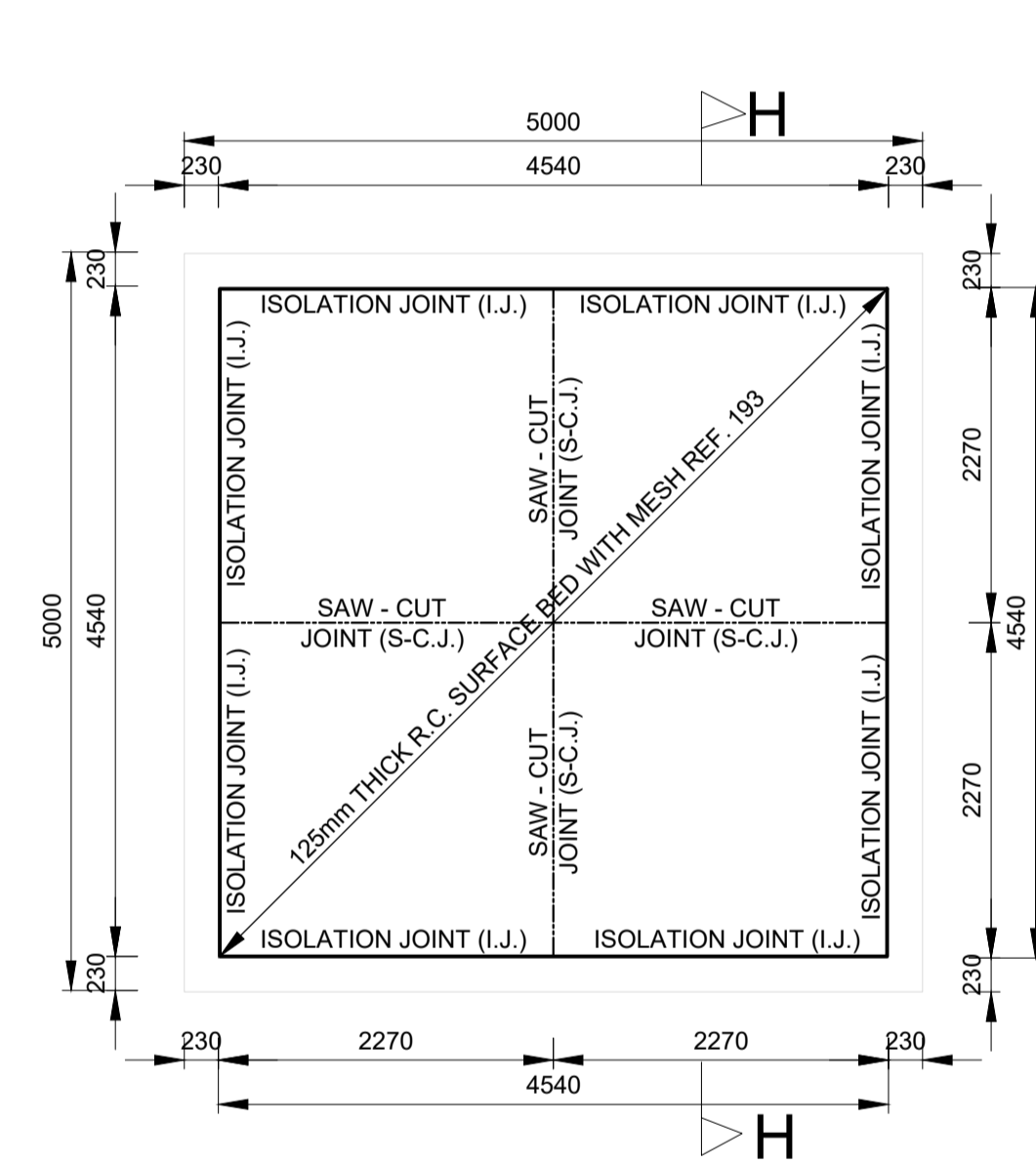
PLAY AREA - REINFORCED FOUNDATION LAYOUT
SCALE 1:50



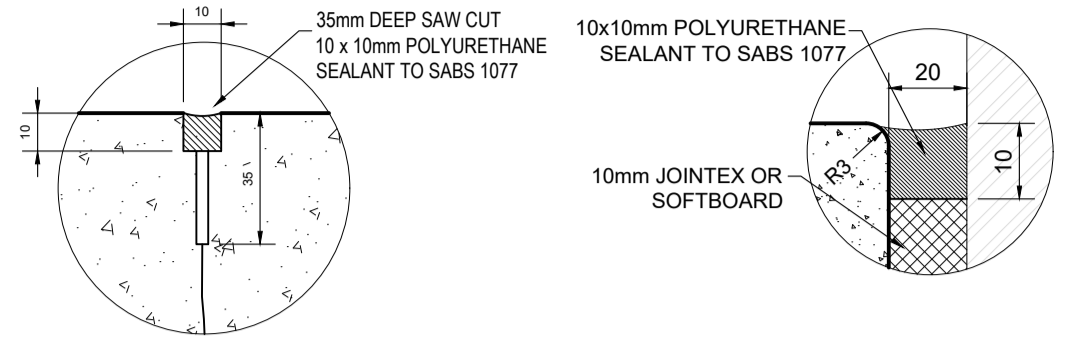
PLAY AREA - SURFACE BED LAYOUT
SCALE 1:50



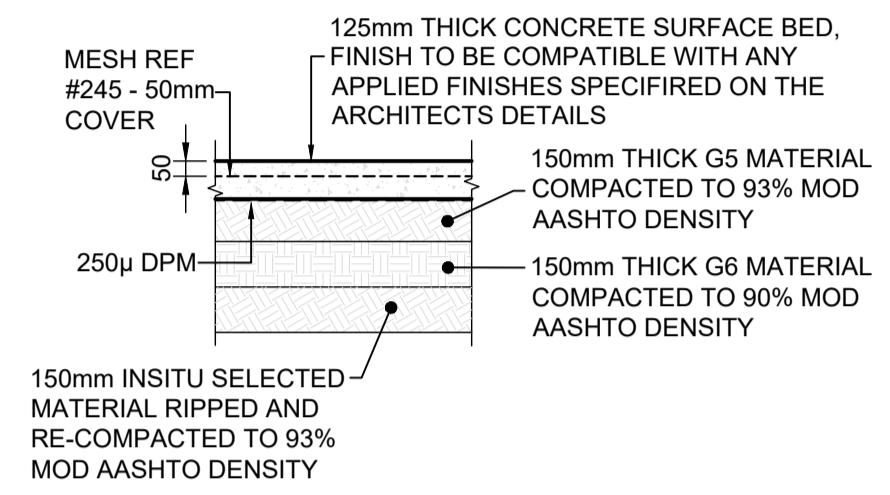
REFUSE YARD - REINFORCED FOUNDATION LAYOUT
SCALE 1:50



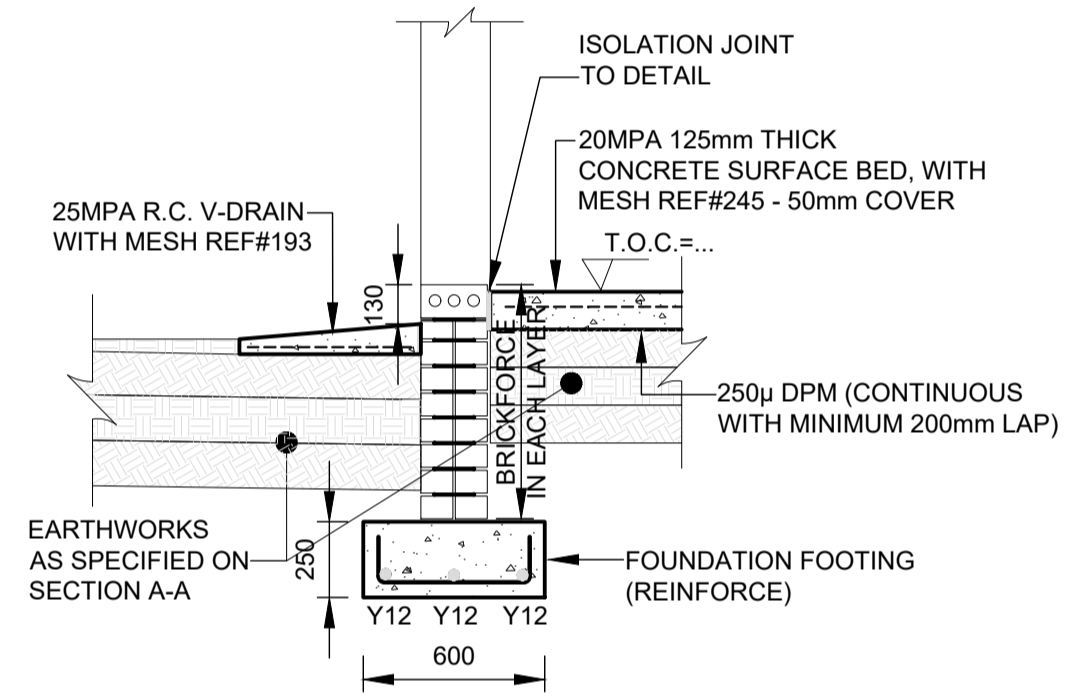
REFUSE YARD - SURFACE BED LAYOUT
SCALE 1:50



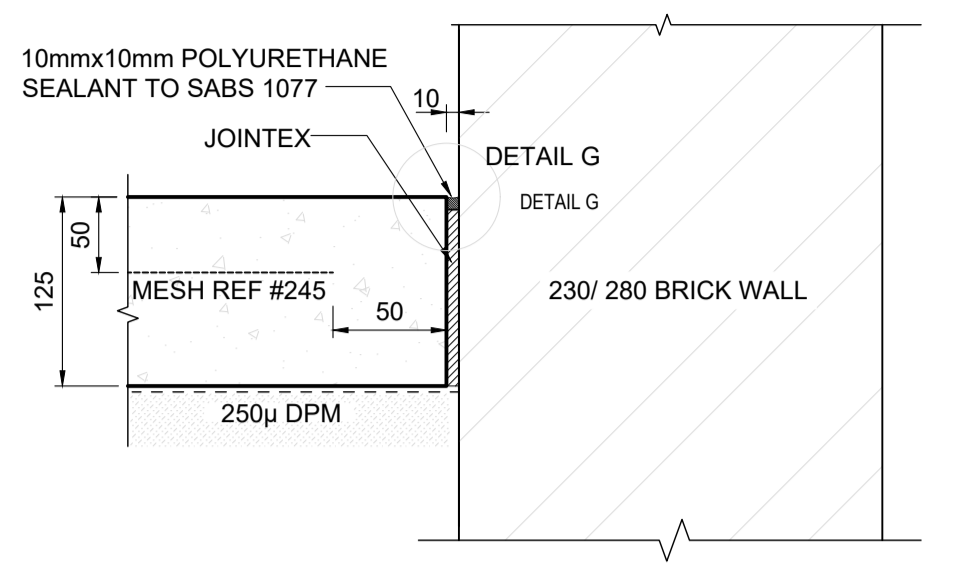
DETAIL F SCALE: 1:2
DETAIL G SCALE: 1:1



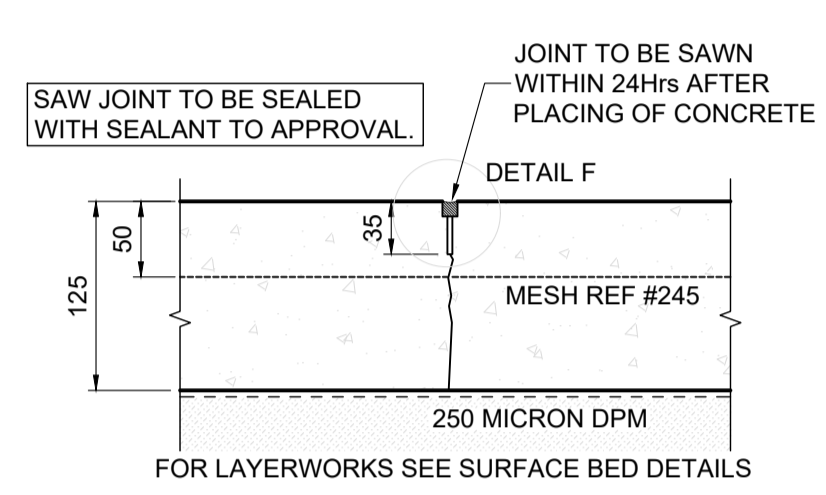
SECTION THROUGH SURFACE BED
SCALE 1:25



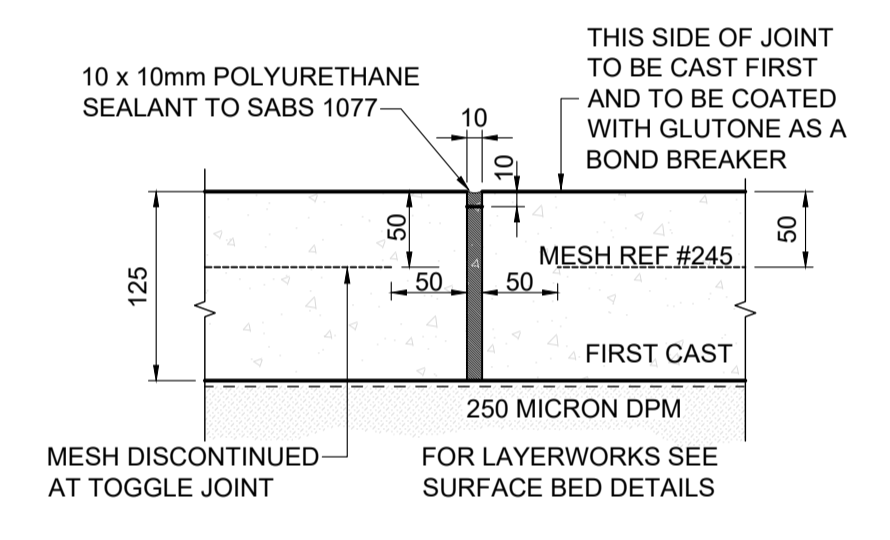
SECTION K-K
SCALE 1:25



ISOLATION JOINT DETAIL
SCALE 1:5

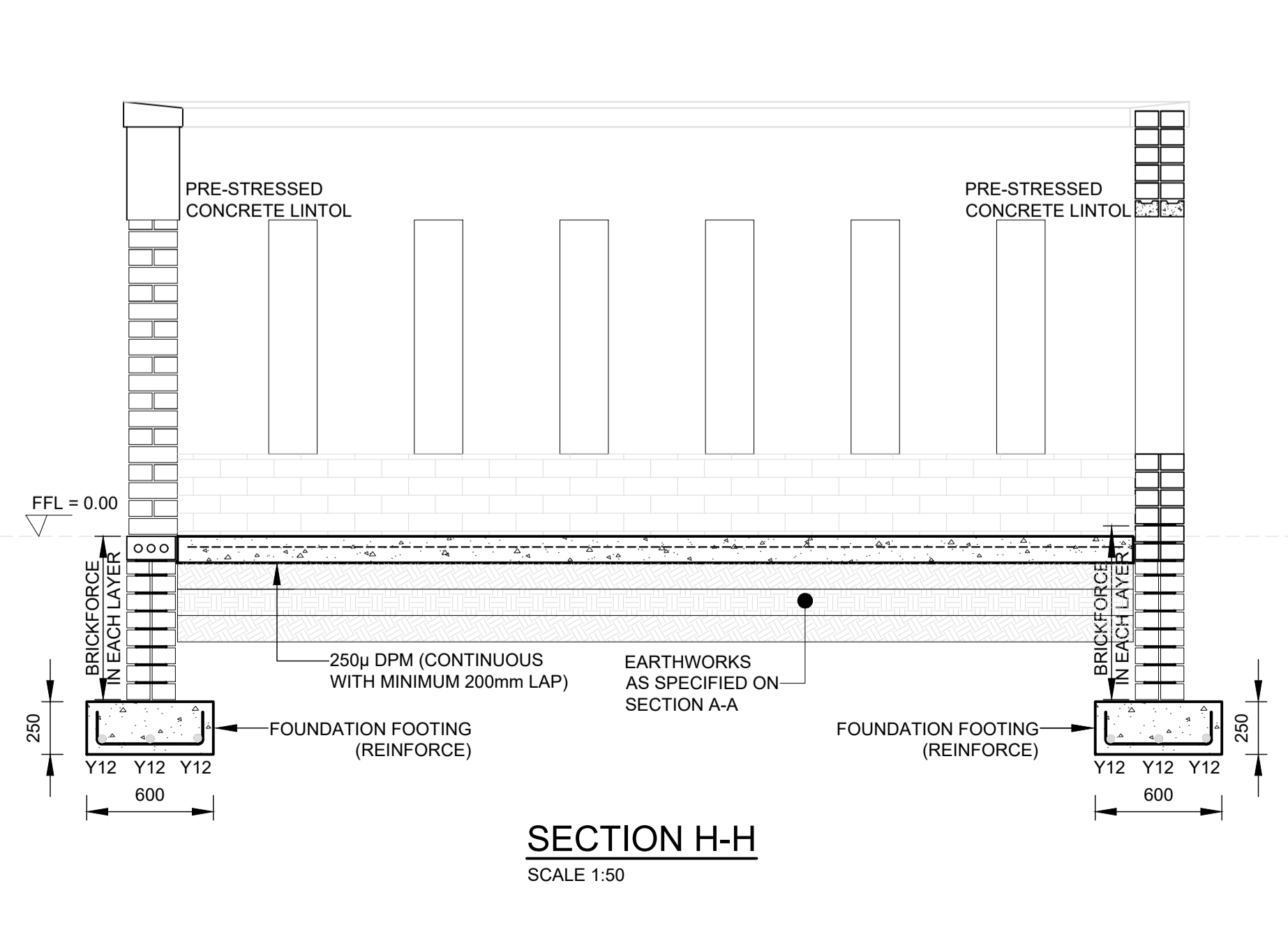


SAW-CUT JOINT DETAIL
SCALE 1:5

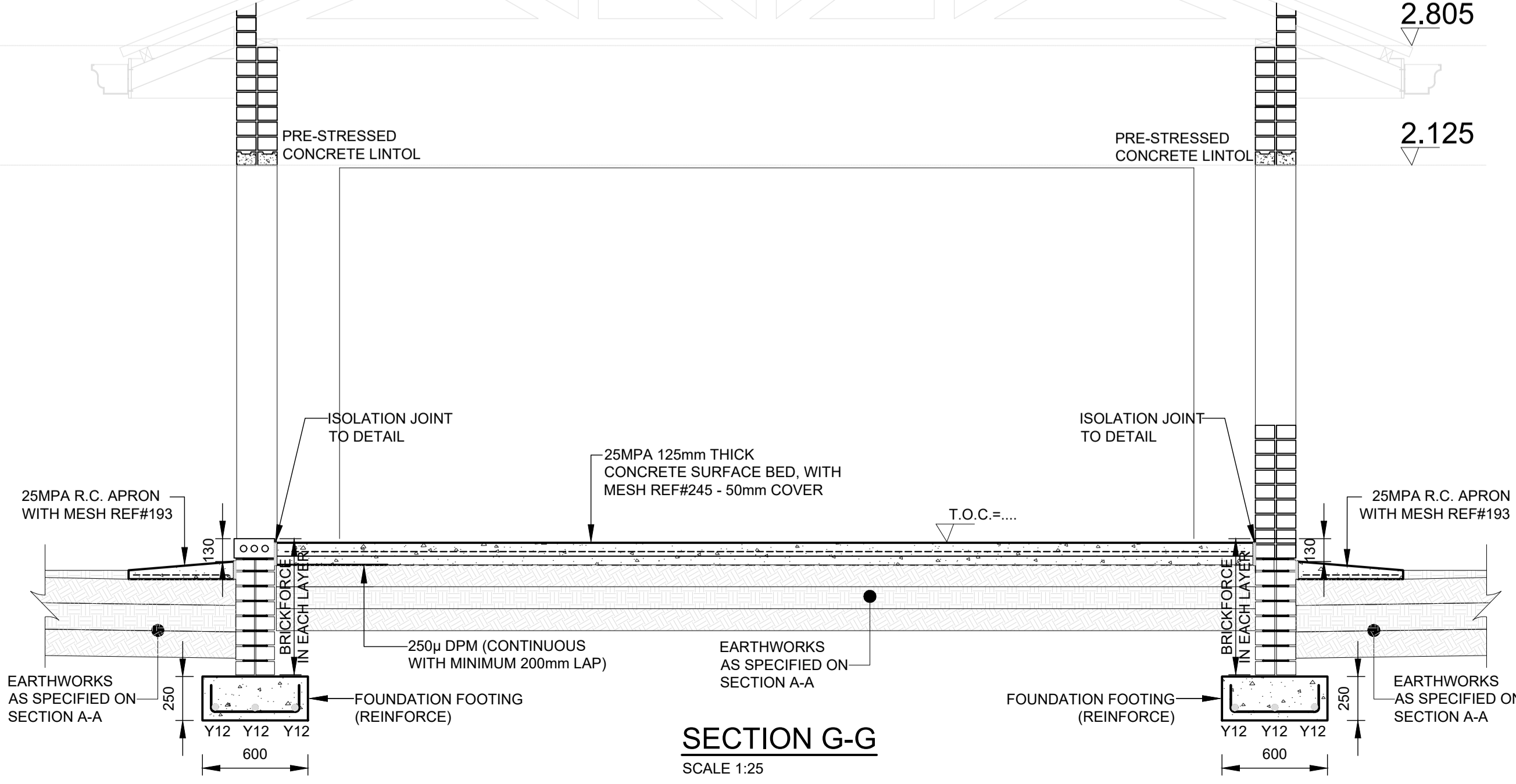


CONSTRUCTION JOINT DETAIL
SCALE 1:5

NB: ROOF TO RECEIVE ENGINEERS APPROVAL PRIOR TO FABRICATION AND INSTALLATION



SECTION H-H
SCALE 1:50



SECTION G-G
SCALE 1:25

MEMBER	No OF MEMB	No BARS PER DIA.	MEMB DIA.	LENGTH	TOTAL NUM-BER	MARK S C	BENDING			Date	2017/04/06	Det. by	B. MBEWANA	1326-LIN-STR-08	Revision	C	Schedule No	BS003
							A	B	C									
PLAY AREA	4	4	Y12	5300	12 20	35	5070		42	115	Ref Dwg			157				
REFUSE YARD	4	4	Y12	5500	12 21	35	5270		40	115	Job No							
TOT	8	10			32	40												

- NOTES:**
- 1.0 SETTING OUT AND GENERAL
 - 1.1 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTS DRAWINGS
 - 1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.
 - 1.3 REVISIONS AND CHANGES TO ARCHITECT OR ENGINEER
 - 1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS.
 - 1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION.
 - 1.6 STRUCTURAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.S SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.S 1200.
 - 1.7 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS FOR DIMENSIONS, DIMENSIONS, DIMENSIONS, DIMENSIONS, DIMENSIONS AND LEVELS FOR THESE SERVICES. NO HOLES ARE TO BE CURED WITHOUT THE APPROVAL OF THE ENGINEERS.
 - 2.0 FOUNDATIONS
 - 2.1 ALL FOUNDATIONS ARE TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.
 - 2.2 NO FOUNDATIONS ARE TO BE CAST WITH MATERIAL.
 - 2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa CONCRETE AT THE CONTRACTOR'S EXPENSE.
 - 2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - 2.5 ALL EARTHWORKS ARE TO BE DONE IN ACCORDANCE WITH S.A.S 1200 SPECIFICATIONS.
 - 2.6 ALLOWABLE BEARING PRESSURE UNDER CONCRETE BASES TO BE 100kPa.
 - 2.7 ALLOWABLE BEARING PRESSURE UNDER STRIP FOOTINGS TO BE 100kPa.
 - 3.0 CONCRETE
 - 3.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH
 - 3.2 STRIP FOOTINGS: 25MPa
 - 3.3 SURFACE BEDS: 25MPa
 - 3.4 SUPPLEMENTAL SLABS & BEAMS: 30MPa
 - 3.5 COLUMN: 30MPa
 - 3.6 CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR APPROVAL. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.
 - 3.7 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY MOIST AT LEAST 7 DAYS AFTER CASTING.
 - 3.8 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.S 1200S PERMISSIBLE DEVIATION TOLERANCES UNLESS OTHERWISE NOTED.
 - 3.9 CONCRETE CURE TEST TO BE SUBMITTED TIMOUSLY TO ENGINEER FOR APPROVAL, RECORDS TO BE KEPT AND APPROVED.
 - 4.0 REINFORCEMENT
 - 4.1 REINFORCEMENT
 - 4.2 MILD STEEL: 250N/mm²
 - 4.3 HIGH YIELD STEEL: 450N/mm²
 - 4.4 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION.
 - 4.5 REINFORCEMENT TIE BARS TO BE MINIMUM 40x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.
 - 4.6 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.
 - 4.7 COVER TO REINFORCEMENT:
 - 4.8 STRIP FOOTINGS: 50mm
 - 4.9 GROUND BEAMS: 80mm
 - 5.0 FORMWORK AND PROPPING
 - 5.1 BEAM SHUTTLING: 1.5 DAYS
 - 5.2 COLUMN AND WALL SHUTTLING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER, 4 DAYS IN HOT WEATHER, 7 DAYS IN COLD WEATHER.
 - 5.3 PROPPING TIMES FOR:
 - 5.4 SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER
 - 5.5 CANTILEVER SLABS AND BEAMS: 21 DAYS
 - 5.6 SUBJECT TO CURE TEST RESULTS BEING SUBMITTED TIMOUSLY TO ENGINEER FOR APPROVAL.
 - 5.7 NO DEPROPPING OF SUPPORTED ELEMENTS UNLESS ADVISED BY ENGINEER.
 - 5.8 CONCRETE FINISHES, UNLESS NOTED OTHERWISE
 - 5.9 CEILING AND WALLS: OFF SHUTTER
 - 5.10 BEAMS AND SLAB SOFFIT: OFF SHUTTER
 - 5.11 TOP OF SUPPLEMENTAL SLABS: WOOD FLOAT
 - 5.12 SURFACE BEDS: POWER FLOAT
 - 5.13 SIDES OF GROUND BEAMS TO BE SHUTTERED.

education
Department:
Republic of South Africa

idt
independent development trust

REV.	DESCRIPTION	DATE
C	SDP AND BUILDING LAYOUT REVISED	06/2023

CLIENT: CIVIL

TOTAL AREA: _____

PROJECT
DOE PORTFOLIO PROGRAMME
EARLY CHILDHOOD DEVELOPMENT CENTRES
LINGELETHU JPS

TITLE
PLAY AREA AND REFUSE YARD
FOUNDATION LAYOUT, SURFACE BED & DETAILS

leko
MTHATHA
53 Leids Road
Tel: 086 100 5356
Email: aubrey@leko.co.za

NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED	B.DINGALBALA	06/2023	A1
DRAWN	B.DINGALBALA	06/2023	SCALE
VALIDATED	B.MQINGWANA	06/2023	AS SHOWN
	B.MQINGWANA	06/2023	STATUS LEGEND

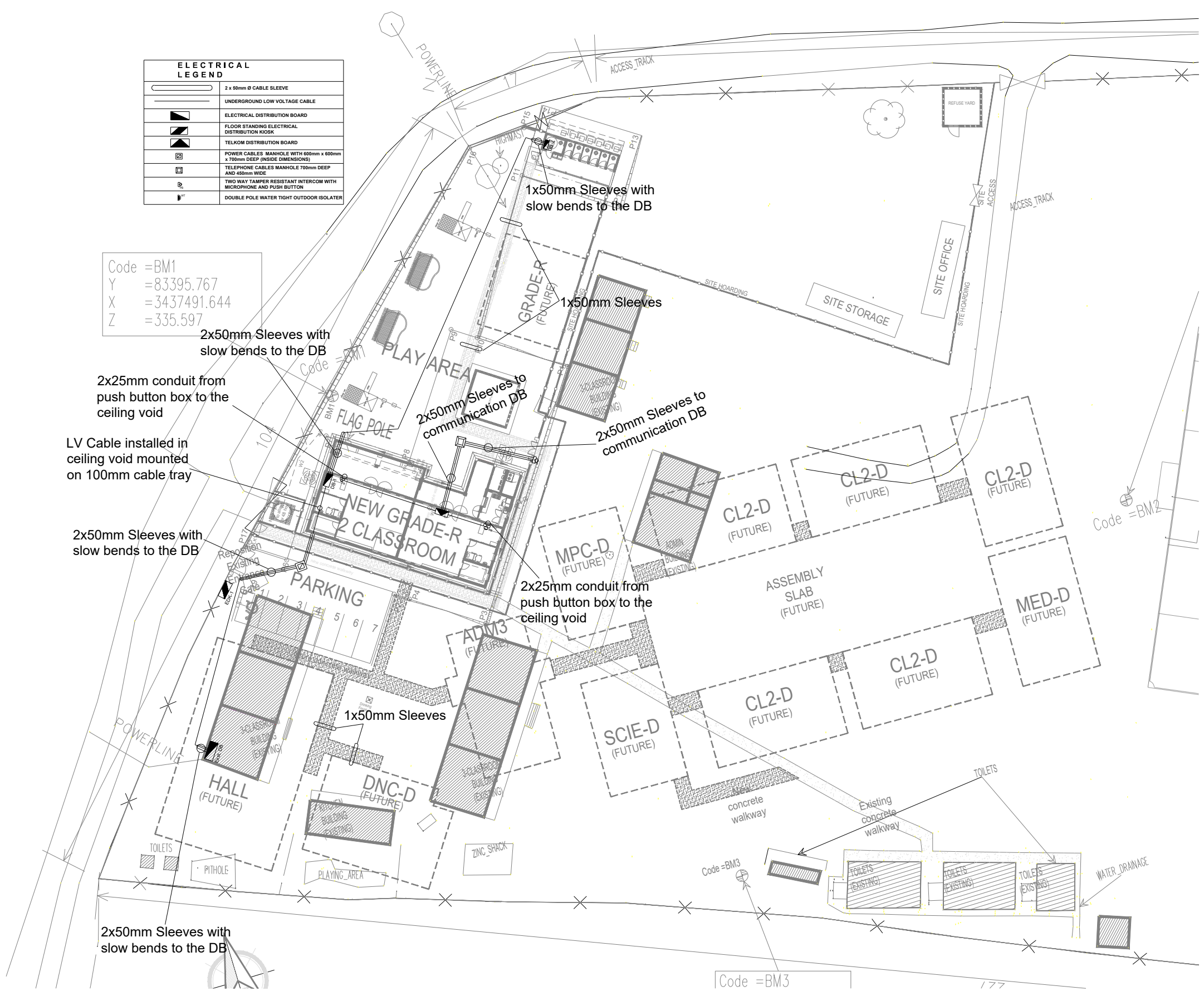
EMIS NUMBER: 20050413
DRAWING NO.: 1306-LIN-STR-03
STATUS: _____

DISCIPLINE: STRUCTURAL
REVISION NO.: C

**ELECTRICAL ENG.
DRAWINGS**

ELECTRICAL LEGEND	
	2 x 50mm Ø CABLE SLEEVE
	UNDERGROUND LOW VOLTAGE CABLE
	ELECTRICAL DISTRIBUTION BOARD
	FLOOR STANDING ELECTRICAL DISTRIBUTION KIOSK
	TELKOM DISTRIBUTION BOARD
	POWER CABLES MANHOLE WITH 600mm x 600mm x 700mm DEEP (INSIDE DIMENSIONS)
	TELEPHONE CABLES MANHOLE 700mm DEEP AND 450mm WIDE
	TWO WAY TAMPER RESISTANT INTERCOM WITH MICROPHONE AND PUSH BUTTON
	DOUBLE POLE WATER TIGHT OUTDOOR ISOLATOR

Code =BM1
 Y =83395.767
 X =3437491.644
 Z =335.597



GENERAL NOTES:
 1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1:2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

NO	DATE	REVISION	DRAWN
A	26-05-23	FOR TENDER	S.R.A

THESE DRAWINGS WILL BE ISSUED FOR CONSTRUCTION FOR THE FOLLOWING SCHOOL:

SCHOOL NAME: LINGELETHU JPS

EMIS NUMBER: 200500413

"The electrical and mechanical engineer hereby assures the Eastern Cape Department of Education and the Eastern Cape Department of Roads and Public Works that these drawings concur with the approved Site Development Plans, and will be used without any changes or alterations. Any necessary and unavoidable changes or alterations must be preapproved by the Eastern Cape Department of Education and Eastern Cape Department of Roads and Public Works before any works commences on construction site.

PROJECT ENGINEER: MXOLISI NYIKANA
 ECSA REGISTRATION NUMBER: 200930204

SIGNATURE



IMPLEMENTING AGENT
 DINGAAN & ASSOCIATES ARCHITECTS
 21 St James Road
 Southernwood
 East London
 5201
 Tel: 043 722 3858
 Fax: 043 722 3787
 E-mail: info-dingaan@telkom.net



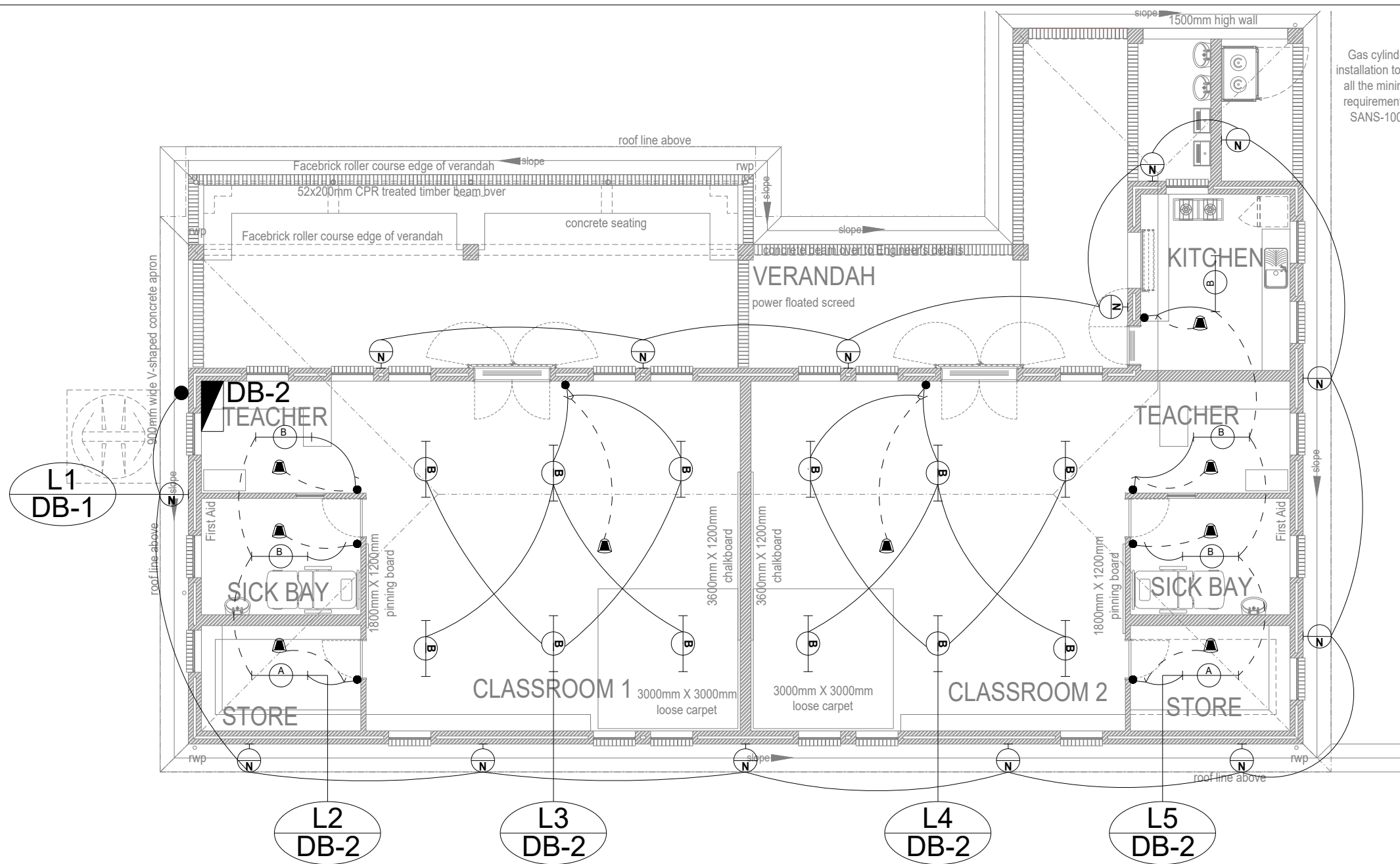
24 Botha Road
 Selborne
 East London, 5201
 Tel: 087 702 4196
 Fax: 086 263 9574
 Email: mxn@mxnep.com

ELECTRICAL & MECHANICAL ENGINEER			
SIGNATURE	DATE	SCALE	SHEET SIZE
	25-03-17	1:500	A3
DESIGNED M.N.	24-03-17	STATUS LEGEND	
DRAWN S.N.	26-05-23	I = INFORMATION	
VERIFIED M.N.		T = TENDER	
VALIDATED		C = CONSTRUCTION	
		Ab = AS BUILT	

PROJECT
 LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE
 SITE PLAN: ELECTRICAL SERVICES + SLEEVE RETICULATION

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
1614	ELECTRICAL	1614-T-E-100	T	A

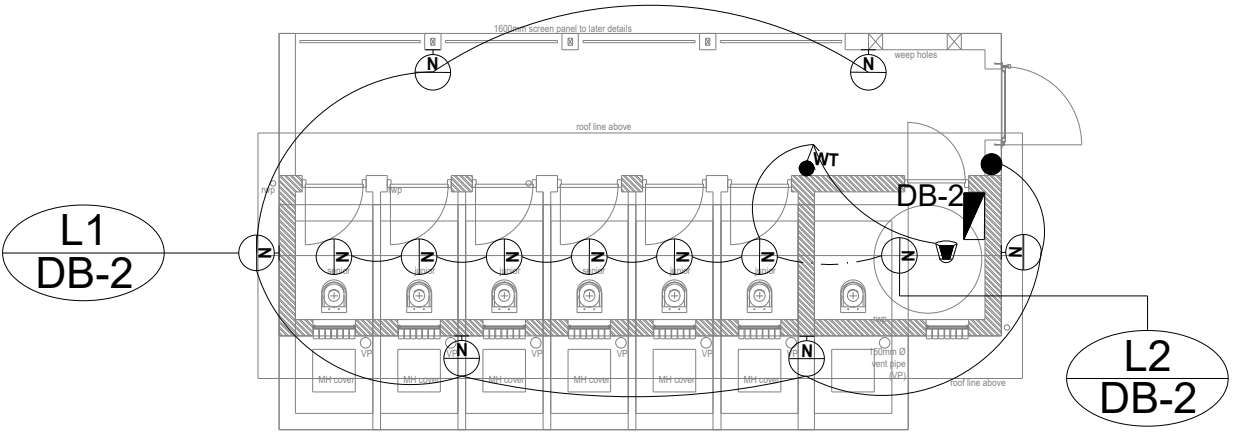


Gas cylinders' installation to meet all the minimum requirements of SANS-10087

FLOOR PLAN - GRADE-R CLASSROOM

SCALE 1:100

LEGEND	
	PHOTO CELL
	MOTION SENSOR (PASSIVE); NOTE: OCCUPANCY SENSORS TO BE WIRED BETWEEN THE CIRCUIT BREAKER AND THE LIGHT SWITCH
	2 LEVER - 1 WAY - LIGHT SWITCH
	1 LEVER-1 WAY-WATER TIGHT LIGHT SWITCH
	10W - LED OUTDOOR DECORATIVE WALL MOUNTED BULKHEAD LUMINAIRE WITH IP65 RATING
	46W - LED SURFACE MOUNT LUMINAIRE WITH FROSTED PRISMATIC DIFFUSER
	ELECTRICAL DISTRIBUTION BOARD



FLOOR PLAN - GRADE_R ABLUTIONS

GENERAL NOTES:
1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1: 2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

NO.	DATE	REVISION	DRAWN
A	26-05-23	FOR TENDER	S.R.A.

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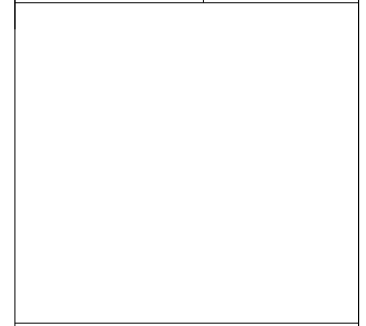
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EMIS NUMBER: 200500413

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SIGNATURE



IMPLEMENTING AGENT
DINGAAN & ASSOCIATES ARCHITECTS
21 St James Road
Southernwood
East London
5201
Tel: 043 722 3858
Fax: 043 722 3787
E-mail: info-dingaan@telkom.net



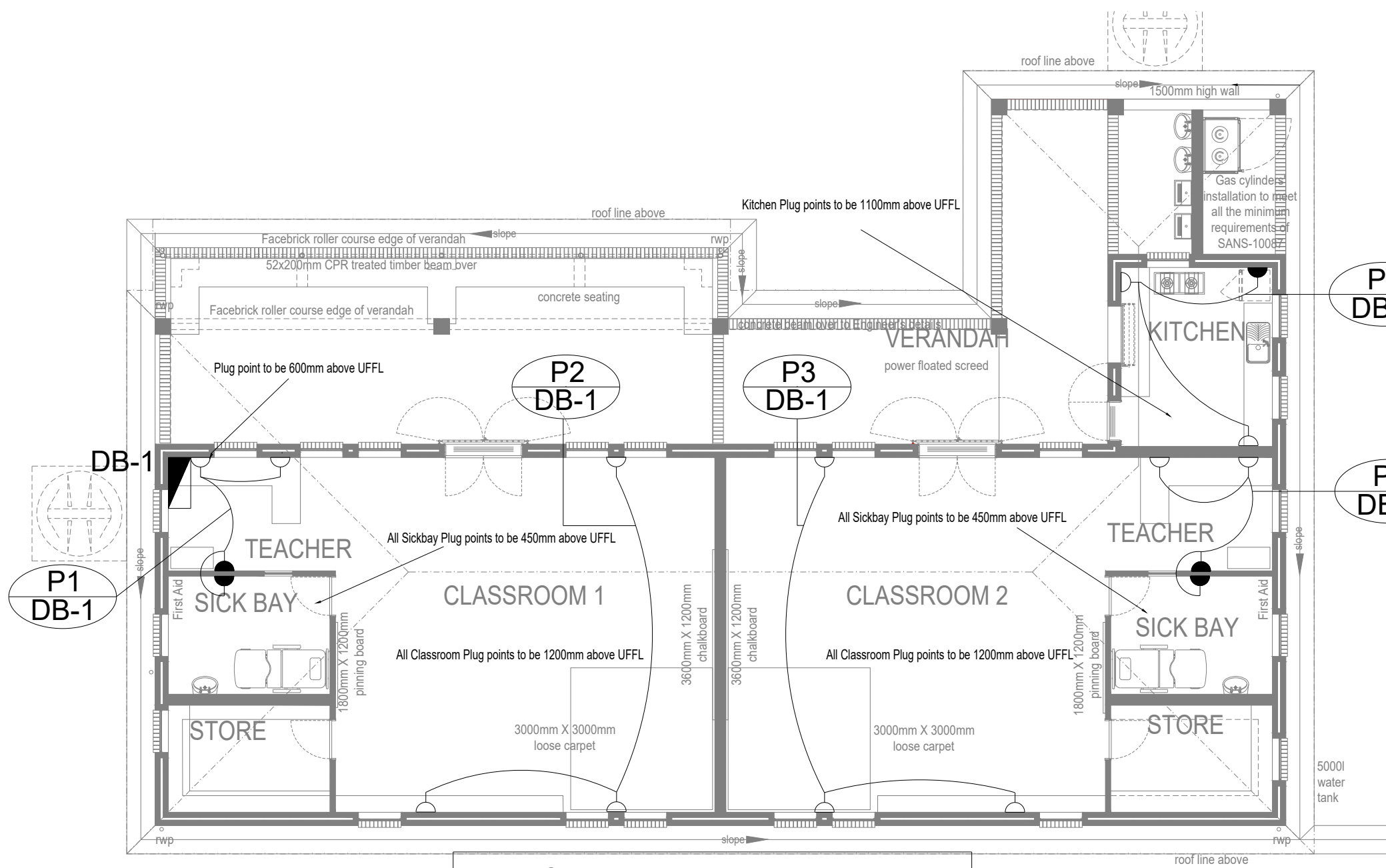
24 Botha Road
Selborne
East London, 5201
Tel: 087 702 4196
Fax: 086 263 9574
Email: mxn@mxnep.com

ELECTRICAL & MECHANICAL ENGINEER			
SIGNATURE	DATE	SCALE	SHEET SIZE
	25-03-17	1 : 100	A3
DESIGNED M. N.	24-03-17	STATUS LEGEND	
DRAWN S.N.	26-05-23	I = INFORMATION	
VERIFIED M.N.		T = TENDER	
VALIDATED		C = CONSTRUCTION	
		AB = AS BUILT	

PROJECT
LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE
GRADE R CLASSROOM + ABLUTIONS:
LIGHTING LAYOUTS

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
1614	ELECTRICAL	1614-T-E-101	T	A



FLOOR PLAN - GRADE-R CLASSROOM
SCALE 1:100

LEGEND	
	1x 16A 3-PIN STANDARD SWITCHED SOCKET OUTLET (WHITE) AND 1x 6A 3-PIN, SANS 164-2, SWITCHED SOCKET OUTLET (WHITE) AT 450mm A.F.L.
	1x 16A 3-PIN STANDARD SWITCHED SOCKET OUTLET (WHITE) AND 1x 6A 3-PIN, SANS 164-2, SWITCHED SOCKET OUTLET (WHITE) AT 1200mm A.F.L. OR 300mm ABOVE WORK TOPS.
	ELECTRICAL DISTRIBUTION BOARD
	ONE WAY INTERCOM POINT 200mm ABOVE DOOR (63mm DIAMETER ROUND BOX).
	PIR SYSTEM

GENERAL NOTES:
1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1: 2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

NO.	DATE	REVISION	DRAWN
A	26-05-23	FOR TENDER	S.R.A.

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SCHOOL NAME: LINGELETHU JPS

EMIS NUMBER: 200500413

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ECSA REGISTRATION NUMBER: 200930204

SIGNATURE

Blank space for signature.



IMPLEMENTING AGENT
Dinga & Associates Architects
21 St James Road
Southernwood
East London
5201
Tel: 043 722 3858
Fax: 043 722 3787
E-mail: info-dinga@telkom.net



24 Botha Road
Selborne
East London, 5201
Tel: 087 702 4196
Fax: 086 263 3574
Email: mxn@mxnep.com

ELECTRICAL & MECHANICAL ENGINEER			
SIGNATURE	DATE	SCALE	SHEET SIZE
	25-03-17	1:100	A3
DESIGNED M.N.	24-03-17	STATUS LEGEND	
DRAWN S.N.	26-05-23	I = INFORMATION	
VERIFIED M.N.		T = TENDER	
VALIDATED		C = CONSTRUCTION	
		AB = AS BUILT	

PROJECT
LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE
GRADE R CLASSROOM: POWER LAYOUT

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
1614	ELECTRICAL	1614-T-E-102	T	A

GENERAL NOTES:

1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1: 2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

NO.	DATE	REVISION	DRAWN
A	26-05-23	FOR TENDER	S.R.A.

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EMIS NUMBER: 200500413

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PROJECT ENGINEER: MXOLISI NYIKANA

ECSA REGISTRATION NUMBER: 200930204

SIGNATURE



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DINGAAN & ASSOCIATES ARCHITECTS
 21 St. James Road
 Southernwood
 East London
 5201
 Tel: 043 722 3858
 Fax: 043 722 3787
 E-mail: info-dingaan@telkom.net

ARCHITECTS



24 Botha Road
 Selborne
 East London, 5201
 Tel: 087 702 4196
 Fax: 086 253 5574
 Email: mxn@manep.com

ELECTRICAL & MECHANICAL ENGINEER

DESIGNED	SIGNATURE	DATE	SHEET SIZE
M. N.		25-03-17	A3
DRAWN	SIGNATURE	DATE	SCALE
S.N.		24-03-17	N.T.S.
VERIFIED	SIGNATURE	DATE	STATUS LEGEND
M.N.		26-05-23	I = INFORMATION T = TENDER C = CONSTRUCTION AB = AS BUILT
VALIDATED	SIGNATURE	DATE	

PROJECT

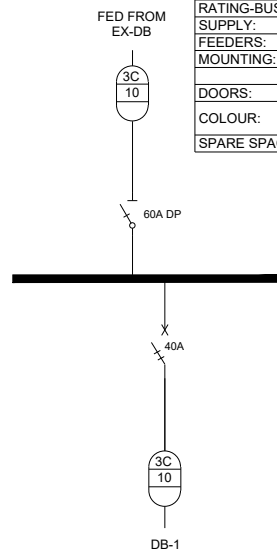
LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE

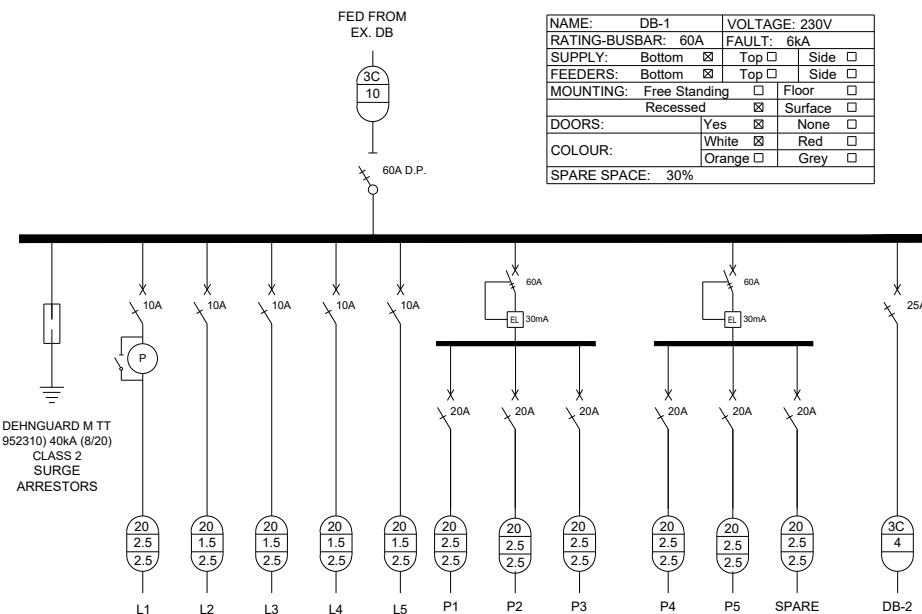
SINGLE LINE DIAGRAMS: DB-EX+ DB1 & DB-2

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
1614	ELECTRICAL	1614-T-E-300	T	A

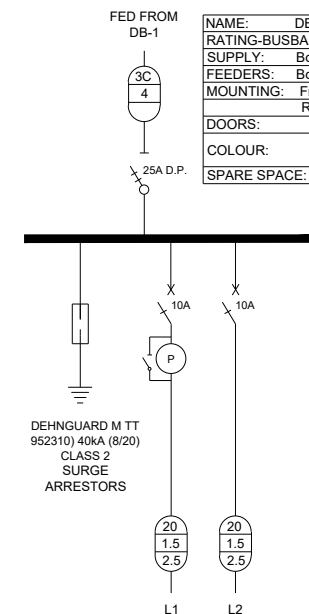
NAME:	EX-DB	VOLTAGE:	230V
RATING-BUSBAR:	60A	FAULT:	6kA
SUPPLY:	Bottom <input checked="" type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/>		
FEEDERS:	Bottom <input checked="" type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/>		
MOUNTING:	Free Standing <input checked="" type="checkbox"/> Floor <input type="checkbox"/> Recessed <input type="checkbox"/> Surface <input type="checkbox"/>		
DOORS:	Yes <input checked="" type="checkbox"/> None <input type="checkbox"/> White <input type="checkbox"/> Red <input type="checkbox"/> Orange <input checked="" type="checkbox"/> Grey <input type="checkbox"/>		
SPARE SPACE:	30%		



NAME:	DB-1	VOLTAGE:	230V
RATING-BUSBAR:	60A	FAULT:	6kA
SUPPLY:	Bottom <input checked="" type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/>		
FEEDERS:	Bottom <input checked="" type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/>		
MOUNTING:	Free Standing <input type="checkbox"/> Floor <input type="checkbox"/> Recessed <input type="checkbox"/> Surface <input type="checkbox"/>		
DOORS:	Yes <input checked="" type="checkbox"/> None <input type="checkbox"/> White <input checked="" type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Grey <input type="checkbox"/>		
SPARE SPACE:	30%		



NAME:	DB-2	VOLTAGE:	230V
RATING-BUSBAR:	40A	FAULT:	6kA
SUPPLY:	Bottom <input checked="" type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/>		
FEEDERS:	Bottom <input checked="" type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/>		
MOUNTING:	Free Standing <input type="checkbox"/> Floor <input type="checkbox"/> Recessed <input type="checkbox"/> Surface <input checked="" type="checkbox"/>		
DOORS:	Yes <input checked="" type="checkbox"/> None <input type="checkbox"/> White <input checked="" type="checkbox"/> Red <input type="checkbox"/> Orange <input type="checkbox"/> Grey <input type="checkbox"/>		
SPARE SPACE:	30%		



LEGEND

	BUSBAR		EARTH LEAKAGE PROTECTION UNIT WITH DISCONNECTOR		CABLES NO. OF CORES CORE SIZE mm EARTH CONDUCTOR mm
	SINGLE POLE		PHOTO CELL		WIRING IN CONDUIT CONDUIT SIZE mm No. & CONDUCTOR SIZE mm² EARTH CONDUCTOR mm²
	TRIPLE POLE				
	ISOLATOR				
	CIRCUIT BREAKER SIZE AS SHOWN				
					CH = WIRING CHANNEL

**MECHANICAL ENG.
DRAWINGS**

Code =BM1
 Y =83395.767
 X =3437491.644
 Z =335.597

FIRE ESCAPE SIGNAGE INSTALLATION NOTE
 FIRE EXTINGUISHER SIGNAGE TO BE PLACED AT FIRE EXTINGUISHER EQUIPMENT AS INDICATED ON THE DRAWING PLAN BY THE SYMBOLS SHOWN BELOW

FIRE PROTECTION EQUIPMENT	Qty
ARROW SIGNAGE / SYMBOL	3
FIRE EXTINGUISHER SIGNAGE / SYMBOL	3
FIRE EXTINGUISHER FIBRE-GLASS CANDLE	1
4 lit DCP HANDHELD FIRE EXTINGUISHER	2
5.0 kg CO2 HANDHELD FIRE EXTINGUISHER	2



GENERAL NOTES:
 1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1: 2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

NO	DATE	REVISION	DRAWN
A	26-08-23	FOR TENDER	S.R.A

THESE DRAWINGS WILL BE ISSUED FOR CONSTRUCTION FOR THE FOLLOWING SCHOOL:

SCHOOL NAME: LINGELETHU JPS

EMIS NUMBER: 200500413

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PROJECT ENGINEER: MXOLISI NYIKANA
 ECSA REGISTRATION NUMBER: 200930204

SIGNATURE



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 Dingaan & Associates Architects
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 Tel: 043 722 3858
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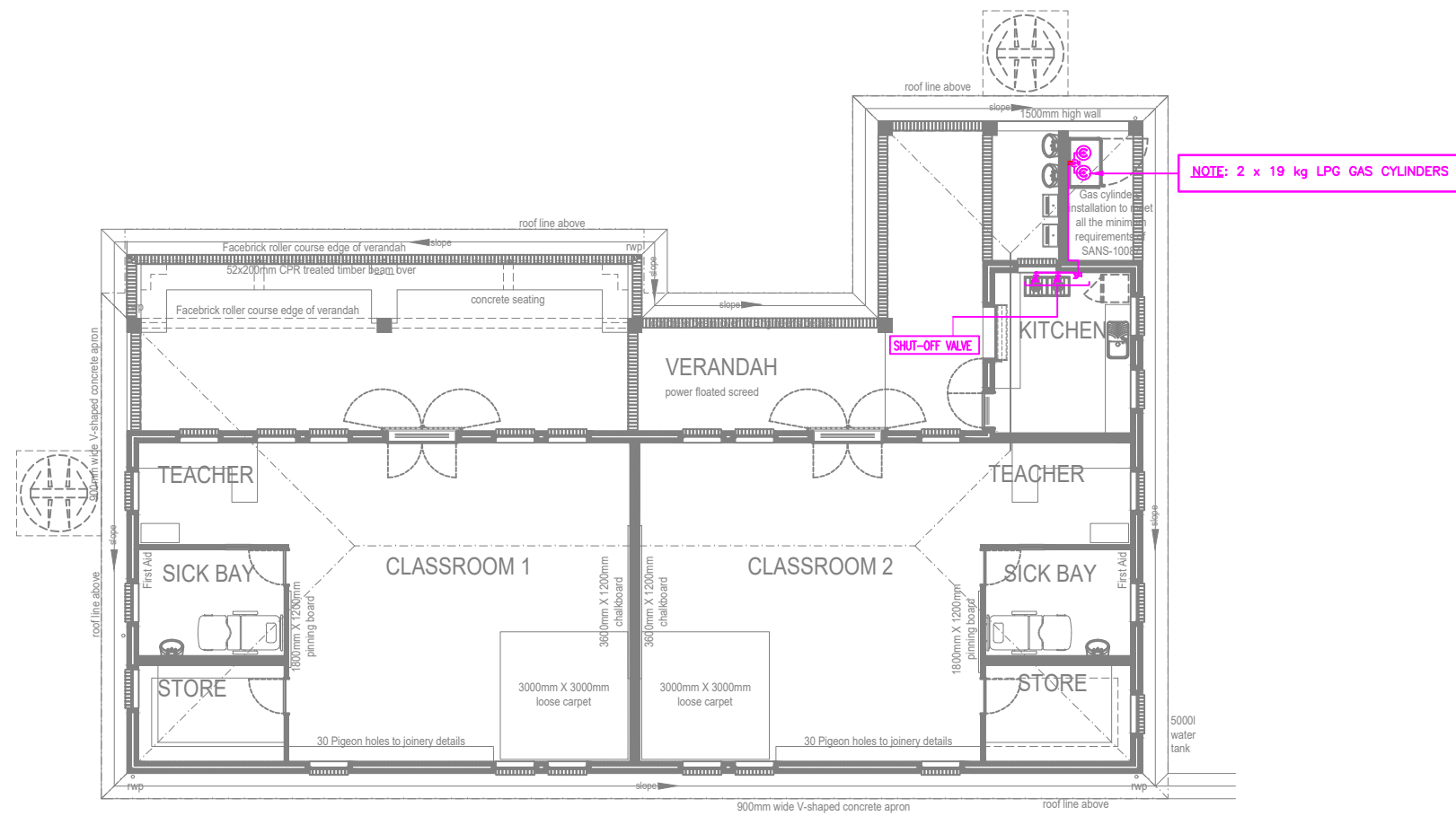
24 Botha Road
 Selborne
 East London, 5201
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ELECTRICAL & MECHANICAL ENGINEER			
SIGNATURE	DATE	SCALE	SHEET SIZE
M. N.	25-03-17	1:100	A3
S.N.	24-03-17		
M.N.	26-05-23		

PROJECT
 LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE
 SITE PLAN: FIRE PLAN AND FIRE PROTECTION EQUIPMENT

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
1614	MECHANICAL	1614-T-M-100	T	A



FLOOR PLAN - GRADE-R CLASSROOM
SCALE 1:100

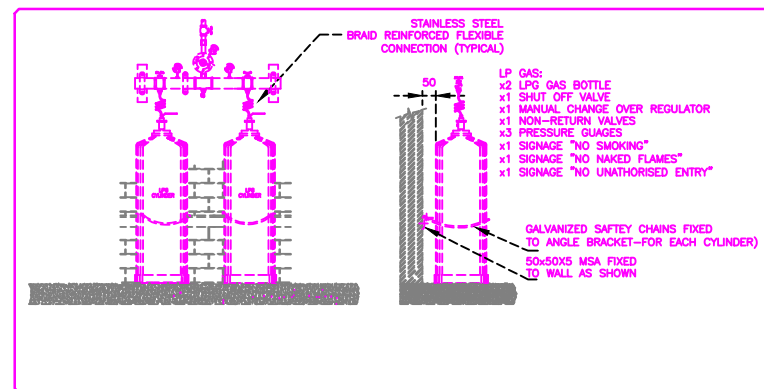
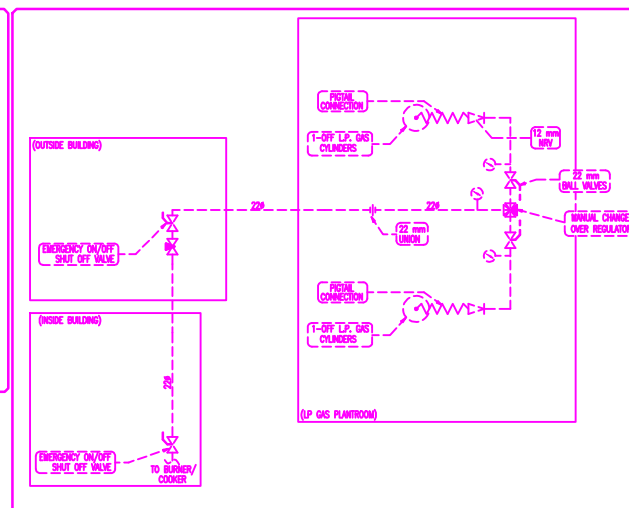


ILLUSTRATION OF LP GAS BANK ARRANGEMENTS (N.T.S)



TYPICAL L.P. GAS PIPE SCHEMATIC

GENERAL NOTES:
1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1: 2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

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SIGNATURE



IMPLEMENTING AGENT



ARCHITECTS



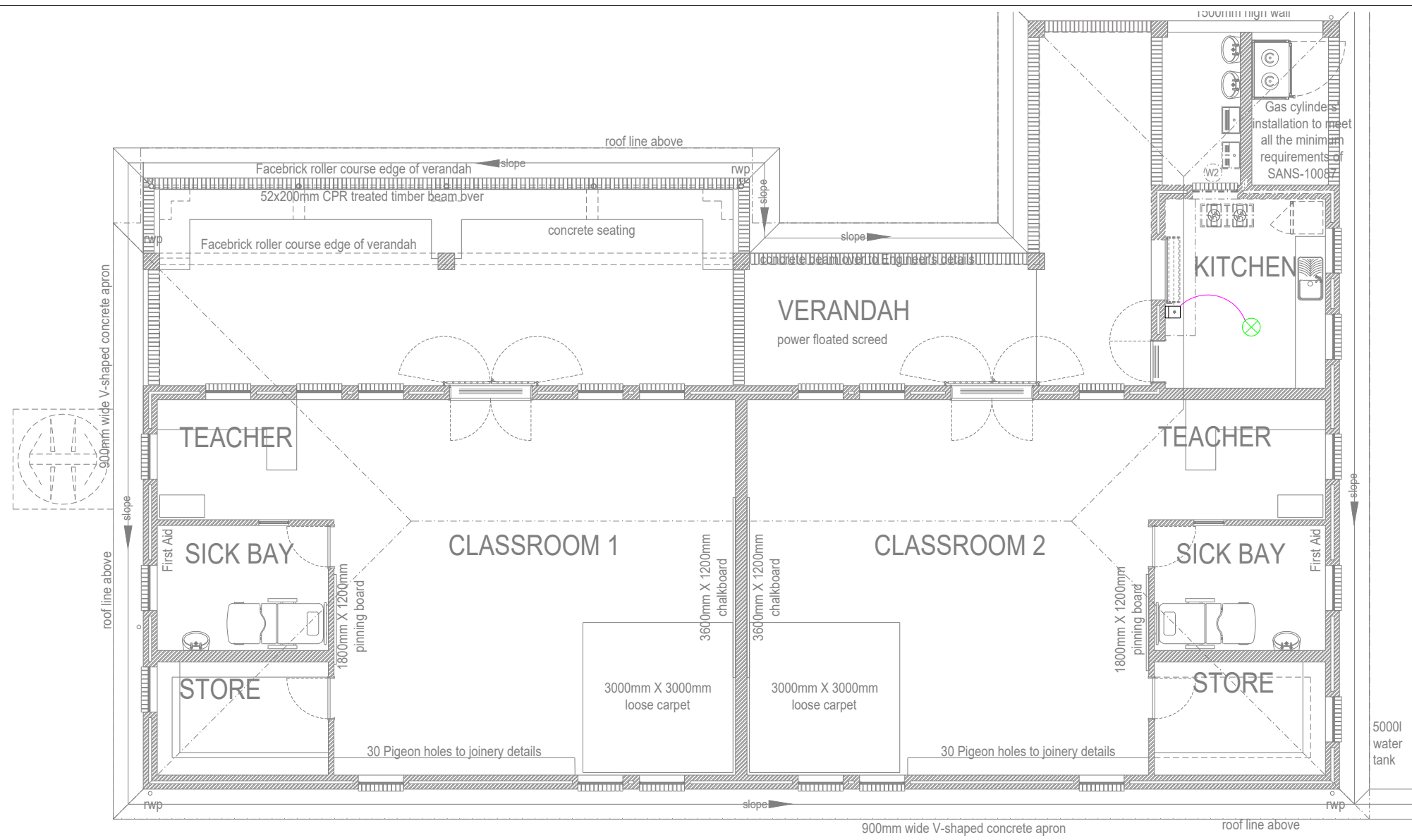
24 Botha Road, Selborne, East London, 5201. Tel: 087 702 4196, Fax: 086 263 8574, Email: mxn@mxnep.com

ELECTRICAL & MECHANICAL ENGINEER		DATE	SHEET SIZE
DESIGNED	M. N.	25-03-17	A3
DRAWN	S.N.	24-03-17	SCALE 1:100
VERIFIED	M.N.	26-05-23	STATUS LEGEND
VALIDATED	-	-	I = INFORMATION T = TENDER C = CONSTRUCTION AB = AS BUILT

PROJECT
LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE
GRADE R CLASSROOM: LP GAS LAYOUT

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV
1614	MECHANICAL	1614-T-M-101	T	A



FLOOR PLAN - GRADE-R CLASSROOM
SCALE 1:100

NO. OFF	KITCHEN DRAWING LEGEND	
1	⊗	SOUNDER / BEACON
1	□	MANUAL CALL POINT

GENERAL NOTES:
1. ELECTRICAL INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SANS 10142-1: 2003 (SOUTH AFRICAN NATIONAL STANDARD - THE WIRING OF PREMISES, PART 1: LOW VOLTAGE INSTALLATIONS)

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ECSA REGISTRATION NUMBER: 200930204

SIGNATURE

(Signature area)



IMPLEMENTING AGENT



ARCHITECTS



24 Botha Road, Selborne, East London, 5201
Tel: 087 702 4196, Fax: 086 263 8574, Email: mxn@mxnep.com

ELECTRICAL & MECHANICAL ENGINEER			
SIGNATURE	DATE	SHEET SIZE	
		A3	
DESIGNED M. N.	25-03-17	SCALE	1 : 100
DRAWN S.N.	24-03-17	STATUS LEGEND	
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VALIDATED		T = TENDER	
		C = CONSTRUCTION	
		AB = AS BUILT	

PROJECT
LINGELETHU JNR PRIMARY SCHOOL

DRAWING TITLE
GRADE R CLASSROOM: FIRE DETECTION LAYOUT

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
1614	MECHANICAL	1614-T-M-103	T	A