

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

Schedule of Materials, Labour & Drawings for Pre Primary Two
Classrooms Block – Hipped (Earthquake zone)

PROJECT AREA

TANZANIA MAINLAND

Ministry of Education, Science and
Technology,

Government City - Mtumba,
AFYA -Street,
P. O. Box 10,
40479 DODOMA.

President's Office,
Regional Administration,
& Local Government
Government City - Mtumba
TAMISEMI Street,
P. O. Box 1923,
41185 DODOMA.

Schedule of Material

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A	<u>SUB-STRUCTURE -PROVISIONAL</u>				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	11	M ³		
	Sand	6	M ³		
	Cement-50kgs (42.5)	51	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand block - Minimum Strength 3.5 MPa	1,050	No		
	Sand	6	M ³		
	Cement -50kgs (42.5)	23	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m ³ lorry)	8	Trips		
	Hardcore 200mm thick - (4.5m ³ lorry)	8	Trips		
	Sand	6	M ³		
	Aldrin solution or other and equal approved (1000mls)	2	Bottle		
4	<u>Oversite Concrete 100mm thick - 15 grade ,Ground Beam and base column - 25 grade</u>				
	DPM	160	M ²		
	Cement -50kgs (42.5)	129	Bags		
	Aggregates (1/2")	20	M ³		
	Sand	11	M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm2	39	PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm2	35	PC'S		
	Binding Wire - 25kg	10	Kgs		
	A252 Mesh 200 x 200x 6.16kg/m2	4	PC'S		
	Timber 1" X 10 " (5.2m long)	21	PC'S		
	Timber 2" X 2"	12	PC'S		
	Nails-4"	10	Kgs		
	Nails-3"	10	Kgs		
	Supporting props	12	PC'S		
	SUB-TOTAL SUBSTRUCTURE				
B.	<u>SUPERSTRUCTURE</u>				
1	<u>Walls Ring beam & Columns</u>				
	6" Cement & Sand block - Minimum Strength 3.5 MPa - 230mm	2,065	No		
	6" Cement & Sand block - Minimum Strength 3.5 MPa - 150mm	235	No		
	DPC 25m	1	Roll		
	Sand	15	M ³		
	Cement-50kgs (42.5)	82	Bags		
	Aggregates (1/2")	5	M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm2	26	PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm2	25	PC'S		

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	Binding Wire - 25kg	12	Kg		
	Timber 1" X 10" to Sides (5.2m long)	32	PC'S		
	Timber 1" X 5" (Plates)	4	PC'S		
	Timber 2" X 2"	20	PC'S		
	Supporting Props	15	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	<u>ROOF STRUCTURE & COVERING</u>				
1	<u>Roof Structure - Provisional</u>				
	Timber 2 " X 3" Purlins	66	PC'S		
	Timber 2" X 4" King Post, wall plate and struts	78	PC'S		
	Timber 2" X 6" Rafter and Tie beam	75	PC'S		
	Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long)	14	PC'S		
	Nails -5"	50	Kgs		
	Nails -4"	40	Kgs		
	Nails -3"	30	Kgs		
	16mm diameter bolt	36	Pc's		
	NOTE: The above softwood timber structure should be pressure impregnated treated				
2	<u>Roof Covering</u>				
	28G IT5 resin coated sheet	262	M ²		
	Hips/Ridge and valley - 28 G IT resin coated	13	PC'S		
	Roofing Nails	25	Packet		
3	<u>Gutter's</u>				
	Upvc 100mm half round (6m long)-5"	10	PC'S		
	Upvc 75mm diameter down pipe; Class B	2	PC'S		
	PVC outlet	2	PC'S		
	Gutter support bracket	38	PC'S		
	PVC bend 90'	2	PC'S		
	PVC bend 45'	4	PC'S		
	Gutter Clamp 3"	48	PC'S		
	Connector/reducer	8	PC'S		
	Connector outer	4	PC'S		
	Corner Inner	4	PC'S		
	Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS	1	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	<u>CEILING</u>				
	Gypsum board -9mm thick	58	PC'S		
	Plain Cornice (8ft)	40	PC'S		
	Screw 1.25" 500pcs/box	3	Box		
	Gypsum powder	10	Bags		
	Fiber tape (90m)	2	Roller		
	Treated softwood Timber 2" X 2"	100	PC'S		
	Nails 4"	20	Kgs		
	Nails 3"	25	Kgs		
	SUB-TOTAL FOR CEILING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	<u>DOOR</u>				
1	<u>40mm thick hardwood Matchboarded door shutter</u>				
	820 x 2100mm high	2	PC'S		
2	<u>45 x 145mm Frames (hardwood),Varnish</u>				
	900 x 2500 mm high frame	2	PC'S		
	5mm thick clear glass to Vents	1	m2		
	16mm diametere burglar bars -1100mm long	6	Pcs		
	Brush 3"	3	Pcs		
	Sand paper (msasa) No.80	3	LM		
	Clear Varnish - 4Litres	1	TIN		
	Thinner for Varnish	3	Litres		
3	<u>Ironmongeries - ref Union</u>				
	Mortice lock Three lever	2	No		
	Brass hinges - 100mm	3	Pairs		
	SUB-TOTAL FOR DOORS				
F.	<u>WINDOWS</u>				
	<u>Aluminium sliding Window comprising 100mm x 1.2mm thick standard aluminium profile ex-china/Turkey infill with 5mm thick glass complete with mosquito proofing panel, including all accessories, ironmongeries, cutting and pinning lugs</u>				
	1500 X 2000mm high	10	PC'S		
	SUB-TOTAL FOR WINDOWS				
G.	<u>FINISHING</u>				
1	<u>Floor finishing</u>				
	<u>Bedding/Backing; cement sand and Chipping (1:2:2); to steel finishing</u>				
	40mm Thick granolithic floor screed steel trowelling to smooth finishing				
	Sand	9	M ³		
	Cement-50kgs (42.5)	58	Bags		
	Chipping "1/4"	13	M ³		
	2mm thick plastic Strips	205	M		
2	<u>Wall Finishing -15mm thick (1:4)</u>				
	Sand	11	M ³		
	Cement-50kgs	74	Bags		
	Sand paper (msasa) No.120	10	M		
	White cement - 40kg	5	Bags		
	Gypsum powder	10	Bags		
	SUB-TOTAL FOR FINISHING				
H.	<u>BALUSTERS & HANDRAIL</u>				
	Supply and fix steel balustrade overall height 900mm high, comprising 50mm diameter hollow section mild steel pipe top and bottom rail, 38mm diameter intermediate rails, 50mm diameter vertical rails 900mm high spaced at interval of 450mm centres to centres including all bolts, plates and associated accessories and welded works, red oxd and painted as per architectural drawing to the aproval of Project Supervisor.	18	m		
	SUB-TOTAL BALUSTERS & HANDRAIL				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J.	<u>PAINTING & DECORATION</u>				
	Emulsion Paint - 20 LTRS	9	buckets		
	Weather guard Paint - 20 LTRS	3	buckets		
	Washable paint -20 LTRS	3	buckets		
	Primer paint -20 LTRS	2	buckets		
	Solvent - 5LTRS	2	TIN		
	Brush 3"	4	Pcs		
	Roller	4	Pcs		
	Blackboard paint	4	Litres		
	Gloss paint-4LTR	3	TIN		
	Bitumen paint - 4Litres	4	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
K.	<u>ELECTRICAL INSTALLATION</u>				
	Single fluorescent fitting Complete,LED philips or other equal approved	18	No		
	Double switch socket ABB or other equal approved	2	No		
	Main switch 6way,1PH with integral RCD 100A/300mmA ABB other equal approved	1	No		
	NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved				
	Single core wire 1.5sqmm - Red	2	Roll		
	Single core wire 1.5sqmm - Black	2	Roll		
	Single core wire 1.5sqmm -green	2	Roll		
	Single core wire 2.5sqmm - red	50	M		
	Single core wire 2.5sqmm	50	M		
	Single core wire 2.5sqmm green	50	M		
	Ceiling fan National or other equal approved	12	PC's		
	3gang 1 way switch ABB or other equal approved	4	No		
	1gang 1 way switch ABB or other equal approved	1	No		
	2gang 1 way switch ABB or other equal approved	2	No		
	Earth rod approved copper 16mm not less than 1200mm	1	No		
	Earth wire 4sqmm	20	M		
	Metal box twin	2	No		
	Metal box single	7	No		
	Junction box	20	No		
	Conduit pipe	120	PC's		
	Elbow	20	PC's		
	Conduit coupling	20	PC's		
	Round cover	10	PC's		
	Round box	10	PC's		
	Fine screw	2	PACKET		
	plastic clips 22mm	2	BOX		
	Bulk head light fitting	4	PCS		
	SUB-TOTAL FOR ELECTRICAL INSTALLATION				

ITEM	DESCRIPTION				AMOUNT -TZS
	<u>SUMMARY</u>				
	<u>2No CLASSROOM BLOCK FOR PRE PRIMARY - EARTHQUAKE ZONE</u>				
A.	SUB-STRUCTURE -PROVISIONAL				
B.	SUPERSTRUCTURE				
C.	ROOF STRUCTURE & COVERING				
D.	CEILING				
E.	DOOR				
F.	WINDOWS				
G.	FINISHING				
H.	BALUSTERS & HANDRAILS				
J.	PAINTING & DECORATION				
K.	ELECTRICAL INSTALLATION				

	TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY			
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	<u>ADD:</u>				
	LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form)				
	Note:				
	i. Refer specification and number of Furniture(s) for Pre primary schools				
	ii. Refer General Summary for: Preliminary, Transportation and Supervision Costs				
	iii. Preliminary cover the following item:				
	- Setting out working tools, Equipments, Temporary toilets, water for the works, Scaffolding,				
	- Power for the works, Security, store, Materials test, levelling, holdings and removal of rubbish.				
	iv. Supervision cost depend on guideline of the specific project				
	v. Installation of Ceiling Fan is an option, depend on whether condition of specific area .				

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PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

Schedule of Materials, Labour & Drawings for Three stances Toilet
block for Pre Primary school

PROJECT AREA

TANZANIA MAINLAND

Ministry of Education, Science and
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Schedule of Material

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A	SUB-STRUCTURE -PROVISIONAL				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	3	M ³		
	Sand	2	M ³		
	Cement-50kgs (42.5)	14	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand block - Minimum Strength 3.5 MPa	250	No		
	Sand	2	M ³		
	Cement -50kgs (42.5)	5	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m ³ lorry)	1	Trips		
	Hardcore (4.5m ³ lorry)	1	Trips		
	Sand	2	M ³		
	Aldrin solution or equal 1000mls	1	Bottle		
4	<u>Oversite Concrete (100mm thick - 20 grade) & Ground Beam - 20 grade, columns and Ramp</u>				
	DPM	15	M ²		
	Cement -50kgs (42.5)	8	Bags		
	Aggregates (1/2")	2	M ³		
	Sand	2	M ³		
	Reinforcement - 12mm diameter high tensile	8	PC'S		
	Reinforcement - 8mm diameter	7	PC'S		
	Binding Wire	3	Kg		
	A252 Mesh 200 x200x6.16kg/m2	1	PC'S		
	Timber 1" X 10 " (3.6m long)	5	PC'S		
	Timber 2" X 2"	2	PC'S		
	Nails-4"	3	Kgs		
	Nails-3"	3	Kgs		
	Supporting props	2	PC'S		
	SUB-TOTAL SUBSTRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls & Ring beam & Columns</u>				
	6" Cement & Sand block - Minimum Strength 3.5 M	558	No		
	Cement & Sand Perforated blocks	0	No		
	DPC 25m long x 1m wide)	5	M		
	Sand	4	M ³		
	Cement-50kgs (42.5)	15	Bags		
	Aggregates (1/2")	1	M ³		
	Reinforcement - 12mm diameter high tensile	6	PC'S		
	Reinforcement - 8mm diameter	4	PC'S		
	Binding Wire	2	kg		
	A252 Mesh 200 x200x6.16kg	0	PC'S		
	Timber 1" X 10" to Sides (3.6m long)	3	PC'S		
	Timber 1" X 6" (Plates)	1	PC'S		
	Timber 2" X 2"	3	PC'S		
	Supporting Props	3	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	<u>Roof Structure - Provisional (3.6m long)</u>				
	Timber 2 " X 3" Purlins	4	PC'S		
	Timber 2" X 4" Wall plate,Rafter	5	PC'S		
	Fascia board 1" X 8"	4	PC'S		
	Nails -5"	2	Kgs		
	Nails -4"	2	Kgs		
	Nails -3"	2	Kgs		
	NOTE: The above softwood timber structure should be pressure impregnated treated				
2	<u>Roof Covering</u>				
	28G IT5 resincoated sheet 3m long	5	Pcs		
	Roofing Nails	1	Packet		
	TO COLLECTION			C/F	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	ROOF STRUCTURE & COVERING CONT...				
				B/F	
3	<u>Gutter's</u>				
	Upvc 100mm half round (6m long)-5"	1	PC'S		
	Upvc 75mm diameter down pipe; Class B	1	PC'S		
	PVC outlet	1	PC'S		
	PVC bend 45'	1	PC'S		
	Gutter support bracket	4	PC'S		
	Gutter Clamp 3"	1	PC'S		
	Connector	1	PC'S		
	Connector outer	1	PC'S		
	Corner Inner	1	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	DOOR				
1	<u>40mm thick hardwood (mninga) or equal and aproved paneled door shutter</u>				
	920 x 2100mm high	1	PC'S		
	720 x 2100mm high	2	PC'S		
2	<u>Frames (hardwood),Varnish, Glass & Burglar bar</u>				
	1000 x 2500 mm high frame	1	PC'S		
	800 x 2500 mm high frame	2	PC'S		
	Brush 3"	1	Pcs		
	Sand paper (msasa) No.80	1	LM		
	Clear Varnish - 4Litres	1	TIN		
	Thinner for Varnish -4Litres	1	Litres		
	Door grill with 38mm x 4mm flat bars, 25mm x 25mm square pipespainted with red oxide				
	1000 x 1500mm high	1	No		
	1000 x 750mm high	3	No		
3	<u>IronMongerries - ref Union</u>				
	Barrel bolt with pad lock	3	No		
	Flush bolt	3	No		
	Brass hinges - 100mm	5	Pairs		
	SUB-TOTAL FOR DOORS				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	FINISHING				
1	<u>Floor finishing</u>				
	Bedding/Backing; cement sand (1:2); to steel finishing				
	Sand	1	M ³		
	Cement-50kgs (42.5)	2	Bags		
	300 x 300 x 8mm Non slippery Porcelain floor tiles (1.35 sqm per Box)	5	Box		
2	<u>Wall Finishing</u>				
	Sand	2	M ³		
	Cement-50kgs	4	Bags		
	250 X 400 x 8mm Wall tiles (1.5 Sqm/Box)	18	Box		
	Wall Puty	4	Bags		
	SUB-TOTAL FOR FINISHING				
F.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	2	buckets		
	Weather guard Paint - 10 LTRS	1	buckets		
	Washable paint -10 LTRS	1	buckets		
	Primer paint -5 LTRS	1	buckets		
	Solvent - 5LTRS	1	TIN		
	Brush 3"	2	Pcs		
	Roller	1	Pcs		
	Gloss paint-4LTR	1	TIN		
	Bitumen paint - 4Litres	1	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
G.	PLUMBING & SANITARY INSTALLATION-PROVISIONAL				
	Semi pedestal Hand washing basin complete	No	2		
	WC Asian type complete with p-trap 9 liters single flush cistern	No	2		
	Shataf stainless steel 304, 1000mm long braided hose .	No	2		
	Angle Valve chrome plated brass	No	9		
	HWB PVC-U trap 1.1/4" Falcon	No	2		
	Looking mirror (600mm by 800mm by 6mm)	No	2		
	PVC-U Floor drainer/Trap 110mm	No	1		
	Strainer albeetony/venus	No	1		
	Ceramic toilet paper holder	No	2		
	Toilet brush holder	No	2		
	Complete set of walfare for person with disability, Western WC, stainless steel 304 grab bar, stainless steel 304 folding hand rail, HWB, Pillar tap, Floor drainer and bib cork	No	1		

ITEM	DESCRIPTION OF WORKS	UNIT	QTY	PRICE	AMOUNT
	<u>PIPES WORK IN BUILDING</u>				
	A: SUPPLY PIPE PN 16				
	PPR/IPS pipes class B argentina 3/4"	Pcs	2		
	PPR/IPS socket (20Ø) 3/4"	No	3		
	PPR/IPS elbow (20Ø) 3/4"	No	15		
	PPR/IPS tee (20Ø) 3/4"	No	9		
	PPR/IPS nipple (20Ø) 3/4"	No	10		
	PPR/IPS reducing bush (20Ø) 3/4" to 1/2"(15Ø)	No	9		
	PPR/IPS pipes class B argentina 1"(32Ø)	Pcs	2		
	PPR/IPS socket 1"(32Ø)	No	6		
	PPR/IPS elbow 1"(32Ø)	No	4		
	PPR/IPS tee 1"(32Ø)	No	4		
	PPR/IPS nipple 1"(32Ø)	No	10		
	PPR/IPS reducing bush (32Ø) 1" to 3/4"(20Ø)	No	6		
	PPR/IPS pipes class B argentina 1 1/2"(50Ø)	Pcs	2		
	PPR/IPS socket 1 1/2"(50Ø)	No	6		
	PPR/IPS elbow 1 1/2"(50Ø)	No	4		
	PPR/IPS tee 1 1/2"(50Ø)	No	4		
	PPR/IPS nipple 1 1/2"(50Ø)	No	4		
	PPR/IPS reducing bush (50Ø) 1 1/2" to 1"(32Ø)	No	9		
	B: SOIL DRAINAGE PVC-U PN6 PIPES AND FITINGS -				
	PVC-U pipe class B 1.1/4"	Pcs	2		
	PVC-U elbow 1.1/4", 135deg	No	3		
	PVC-U elbow 1.1/4", 90 deg	No	4		
	PVC-U Ytee 1.1/4"	No	2		
	PVC-U pipe class B 4"	Pcs	2		
	PVC-U elbow 4"	No	6		
	PVC-U Ytee 4"	No	2		
	PVC-U WYES 4"	No	1		
	PVC-U Tangit 1000g	No	2		
	P-Trap ERA 4"	No	1		
	PE 100 Gully trap 4",ERA	No	1		

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	EXTERNAL WORK				
	A: Drainage works				
	PVC-U pipe class B plascon 4" 6m	Pcs	6		
	ManHole cover 600mm x 600mm medium	No	4		
	Gully trap cover 300mm x 300mm medium	No	3		
	B: Water Supply Pipe HDPE, PE100				
	1.5" HDPE supply pipes Class C	m	12		
	HDPE bend 1.5"	No	2		
	HDPE Tee Polly to polly 1.5"	No	3		
	HDPE polly coupling 1.5"	No	4		
	1.25" HDPE supply pipes Class C	m	12		
	HDPE bend 1.25"	No	5		
	HDPE Male connector 1.25"	No	4		
	HDPE Tee Polly to polly 1.25"	No	4		
	HDPE polly coupling 1.25"	No	4		
	<u>VALVES AND CONTROLS</u>				
	Bib cork pex/martex 1/2" PN 16	No	2		
	Gate valve pex/martex 3/4" PN 16	No	3		
	Ball valve 1 1/4"	No	1		
	<u>WATER STORAGE TANK</u>				
	2,000litres water storage tank	No	1		
	1,000litres water storage tank	No	1		
	Tank connector 1"	No	2		
	Clamp 3"	PC'S	1		
	SUB-TOTAL FOR PLUMBING & SANITARY INSTALLATION-				
H.	RISER FOR WATER TANK (4M HIGH)				
	6" Cement & Sand block - Minimum Strength 3.5 MPa	190	No		
	Cement-50kgs	8	Bags		
	Aggregates (1/2")	1	M3		
	Sand	3	M3		
	Reinforcement - 12mm diameter high tensile	4	Pcs		
	Binding Wire - 25kg	1	kg		
	Timber 1" X 10" to Sides (3.6m long)	6	Pcs		
	Nails-4"	1	kg		
	Nails-3"	1	kg		
	TOTAL; RISER FOR TANK				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J.	MANHOLE,GULLY TRAP, SEPTIC TANK, SOAK PIT.				
	MANHOLE:				
	Construct standard manhole size 600 x 600mm average depth 850mm deep;	No	3		
	GULLY TRAP				
	Construct a standard gully trap 300×300mm deep	No	3		
	SEPTIC TANK:				
	Construct septic tank overall internal dimensions; size 3300 x 2400x 3000mm.	No	1		
	SOAK PIT (S.P)				
	Construct Soak pit overall size 3000mm diameter x 3500mm high	No	1		
	TOTAL; MANHOLE,GULLY TRAP, SEPTIC TANK, SOAK PIT.				

K.	<u>ELECTRICAL INSTALLATION</u>				
	<u>PRE PRIMARY TOILET</u>				
	Single fluorescent fitting Complete,LED philips or	4	No		
	NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved				
	Single core wire 1.5sqmm - Red	30	M		
	Single core wire 1.5sqmm - Black	30	M		
	Single core wire 1.5sqmm -green	30	M		
	Twin cable wire 2.5sqmm	30	M		
	1gang 1 way switch ABB or other equal approved	3	No		
	Ceiling light complete with energy saver 11w	3	No		
	Metal box single	3	No		
	Junction box	3	No		
	Conduit pipe	3	PC's		
	Elbow	3	PC's		
	Conduit coupling	3	PC's		
	Round cover	3	PC's		
	Round box	1	PC's		
	plastic clips 22mm	1	BOX		
	SUB-TOTAL FOR ELECTRICAL INSTALLATIONS				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
L	Steel handrails to ramp				
	Supply and fix steel support handrails 750mm high				
	comprising 38mm diameter hollow section pipe				
	top, bottom and vertical rails spaced at 300mm				
	centres to centres as per Architectural drawings	8	m		
	SUB-TOTAL FOR HANDRAILS				

	<u>GENERAL SUMMARY</u>	AMOUNT TZS
	<u>2no stances with One Disability stances toilets block -Wet area</u>	
A.	SUB-STRUCTURE -PROVISIONAL	
B.	SUPERSTRUCTURE	
C.	ROOF STRUCTURE & COVERING	
D	DOOR	
E	FINISHING	
F	PAINTING & DECORATION	
G	PLUMBING & SANITARY INSTALLATION-PROVISIONAL	
H	RISER FOR WATER TANK	
J	MANHOLE, GULLYTRAP,SEPTIC TANK AND SOAK PIT	
K	ELECTRICAL INSTALLATIONS	
L	HANDRAILS TO RAMP	
	TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY	
	<u>ADD:</u>	
	LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form)	
	Note:	
	i Refer General Summary for: Preliminary, Transportation and Supervision Costs	
	ii. Preliminary cover the following item:	
	- Setting out working tools, Equipments, Temporary toilets, water for the works, Scaffolding,	
	- Power for the works, Security, store, Materials test, levelling, holdings and removal of rubbish.	
	iii. Supervision cost depend on guideline of the specific project	

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF EDUCATION SCIENCE AND TECHNOLOGY

IN COLLABORATIONS WITH

PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

Ministry of Education, Science and Technology
Government City-Mtumba,
Afya Street,
P.O. Box 10,
40479 DODOMA

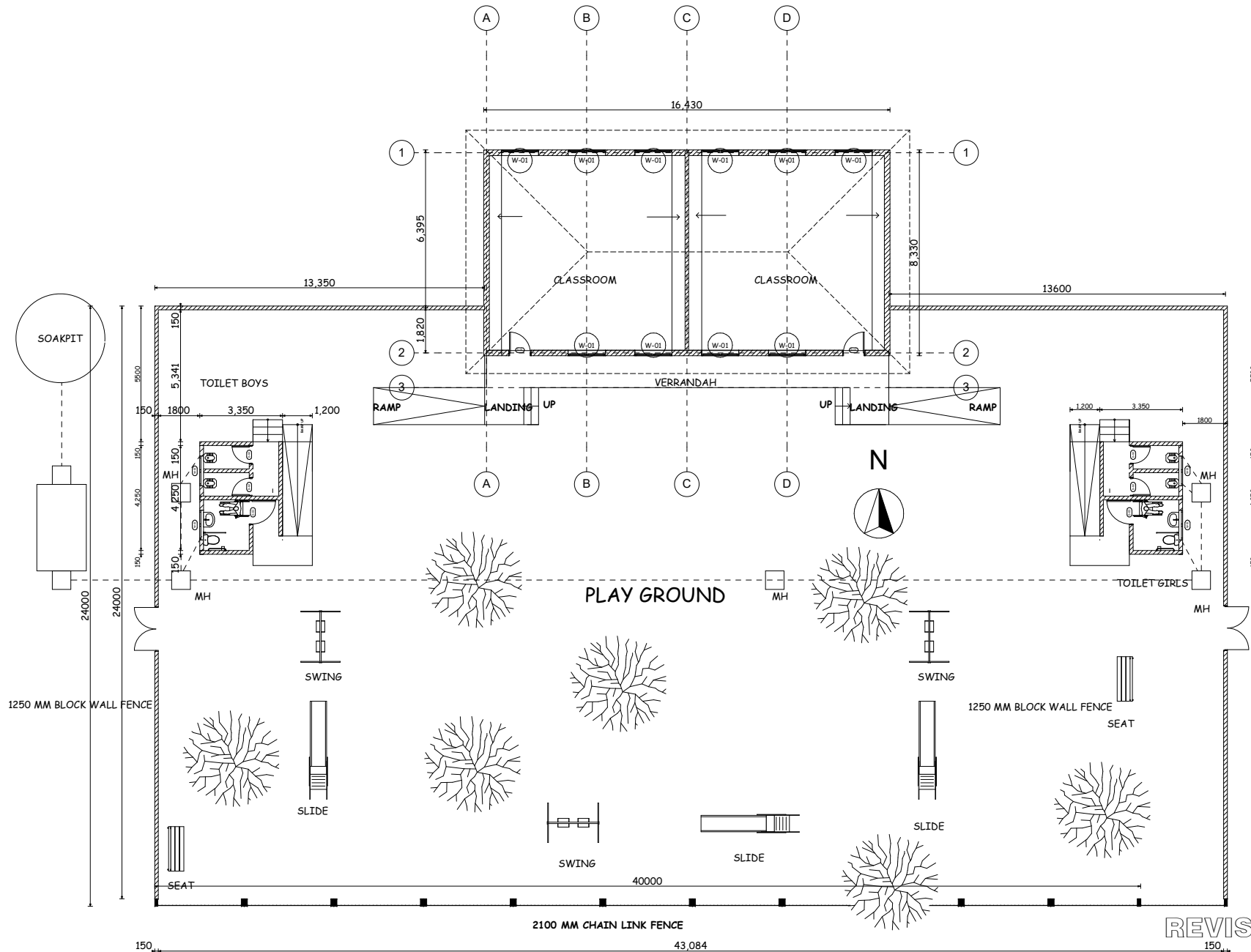
President's Office, Regional Administration
and Local Government.
Government City-Mtumba,
TAMISEMI Street,
P.O. Box 1923,
41185 DODOMA

JANUARY, 2023

PRE PRIMARY SCHOOL DRAWINGS

ARCHITECTURAL DRAWINGS

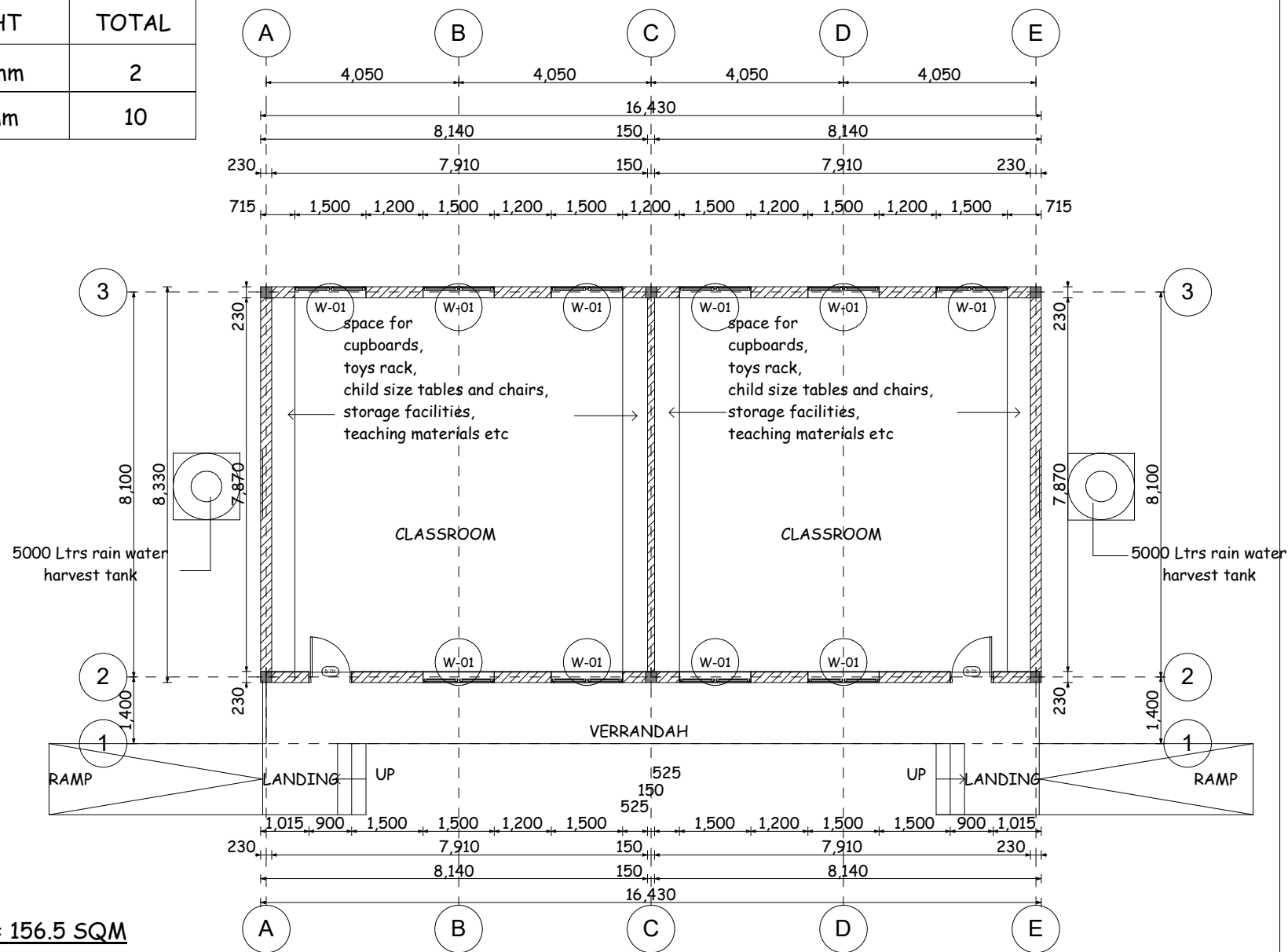
PRE PRIMARY SCHOOL CLASSROOMS - HIPED



REVISED 1

DOOR & WINDOW SCHEDULE

NO.	WIDTH	HEIGHT	TOTAL
D1	900mm	2,500mm	2
W-01	1,500mm	2,000mm	10



TOTAL FLOOR AREA = 156.5 SQM

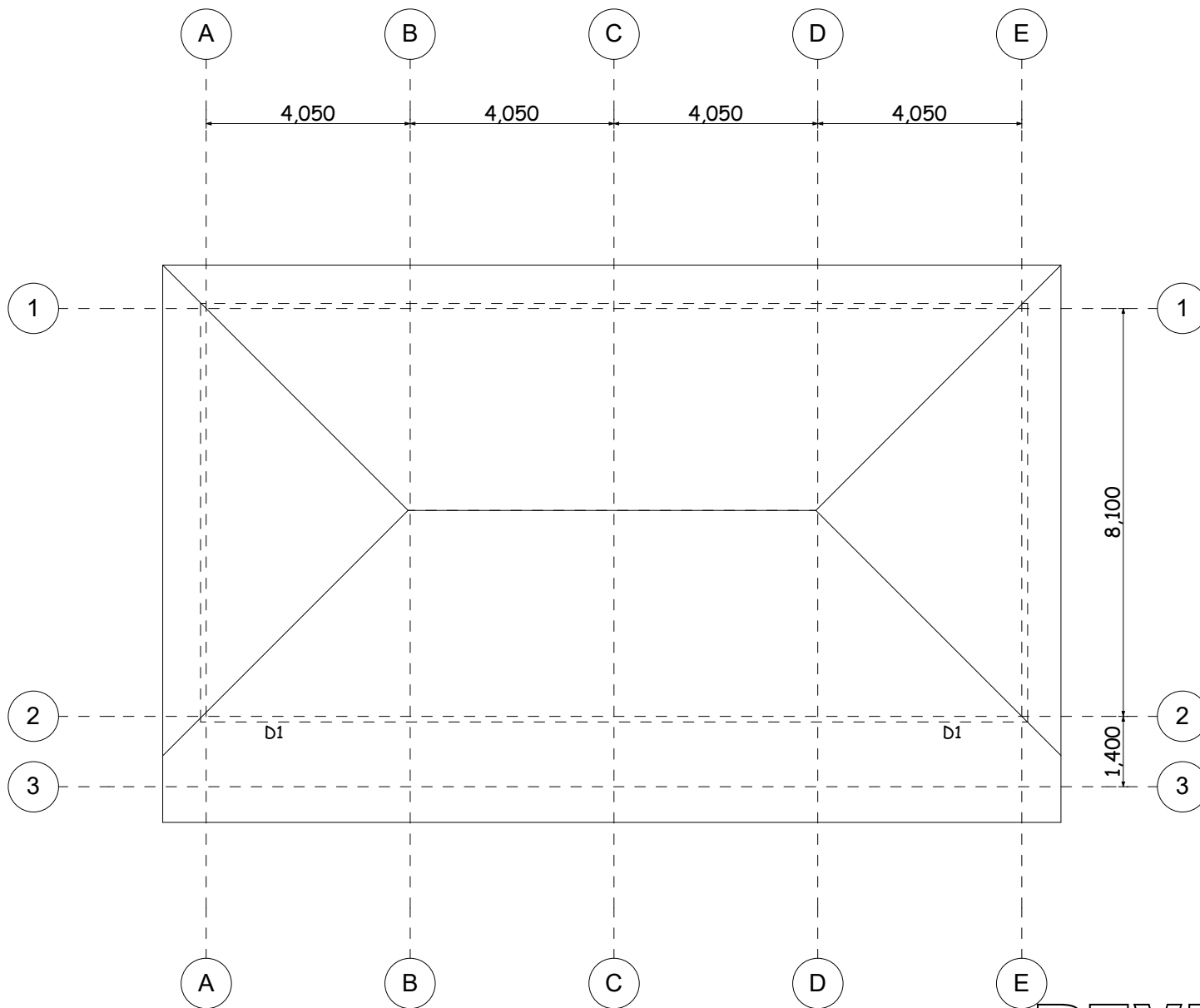
REVISED 1

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS
PROPOSED STANDARD DESIGN FOR PRE PRIMARY SCHOOL CLASSROOMS

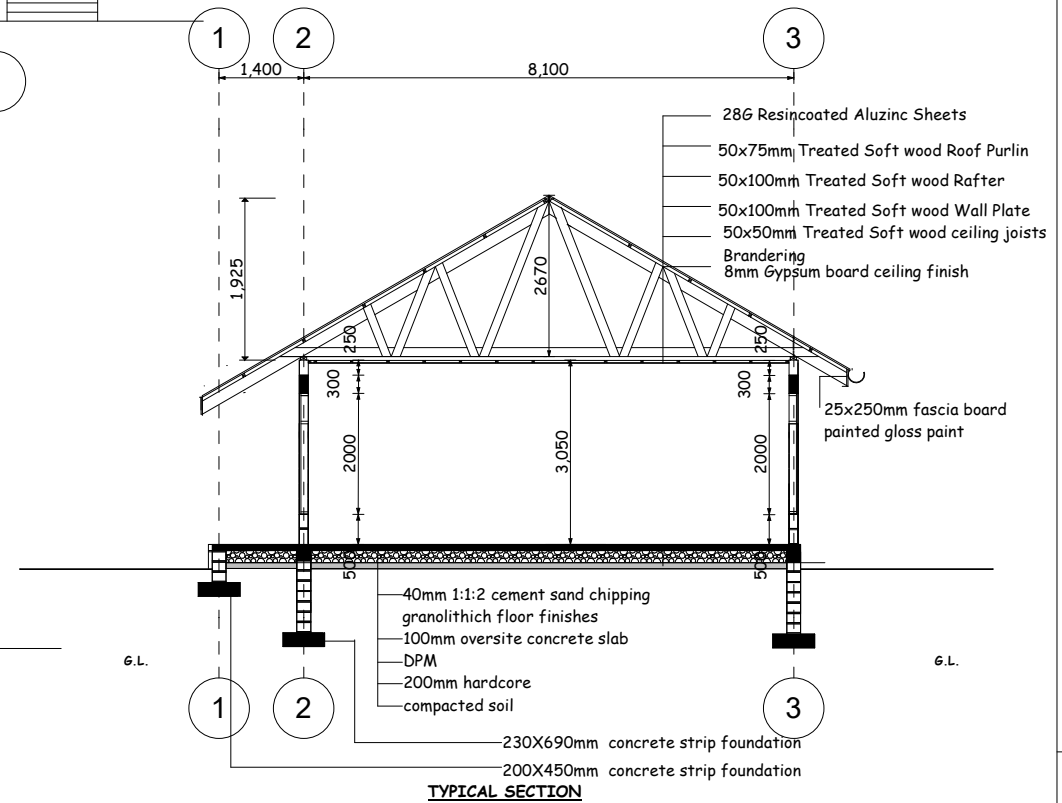
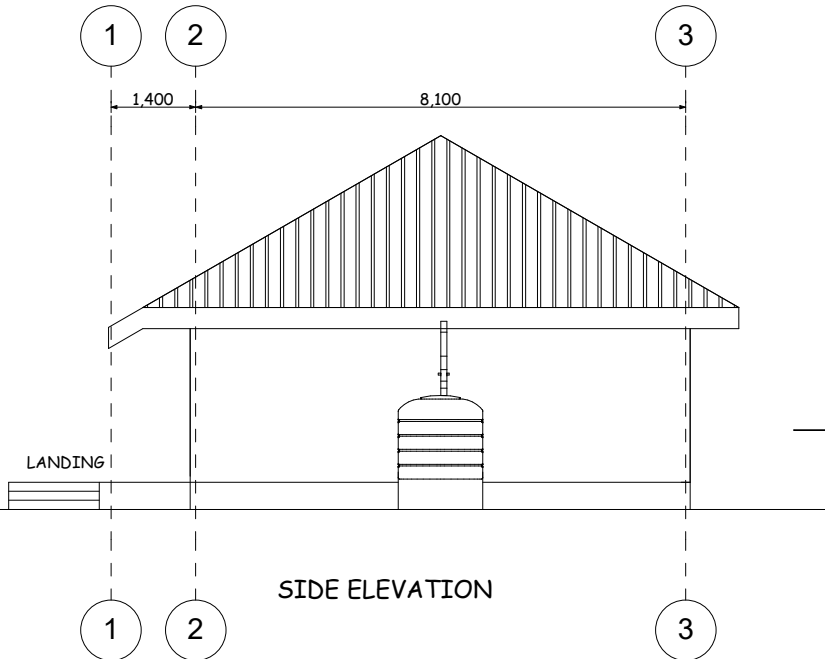
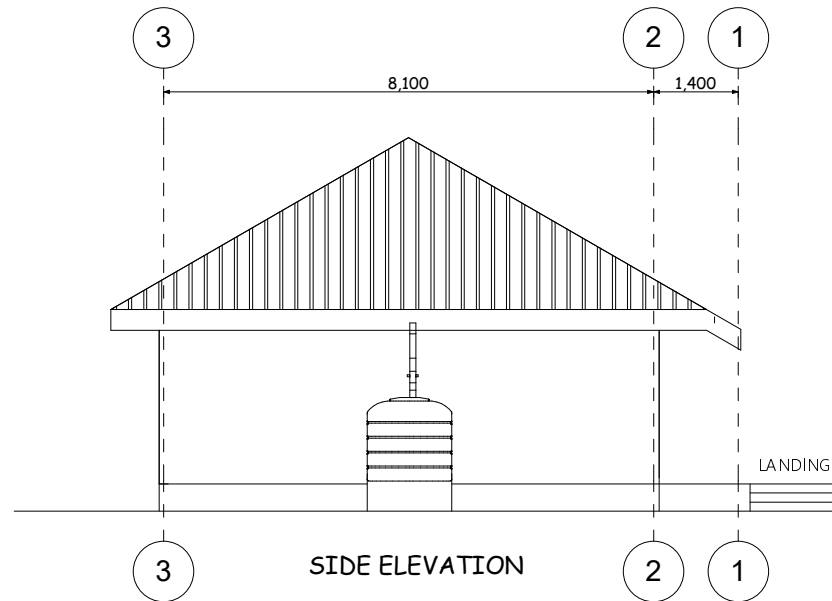
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FLOOR PLAN - AREA PRONE TO EARTHQUAKE
DRAWING NO: ARC/PPS/02

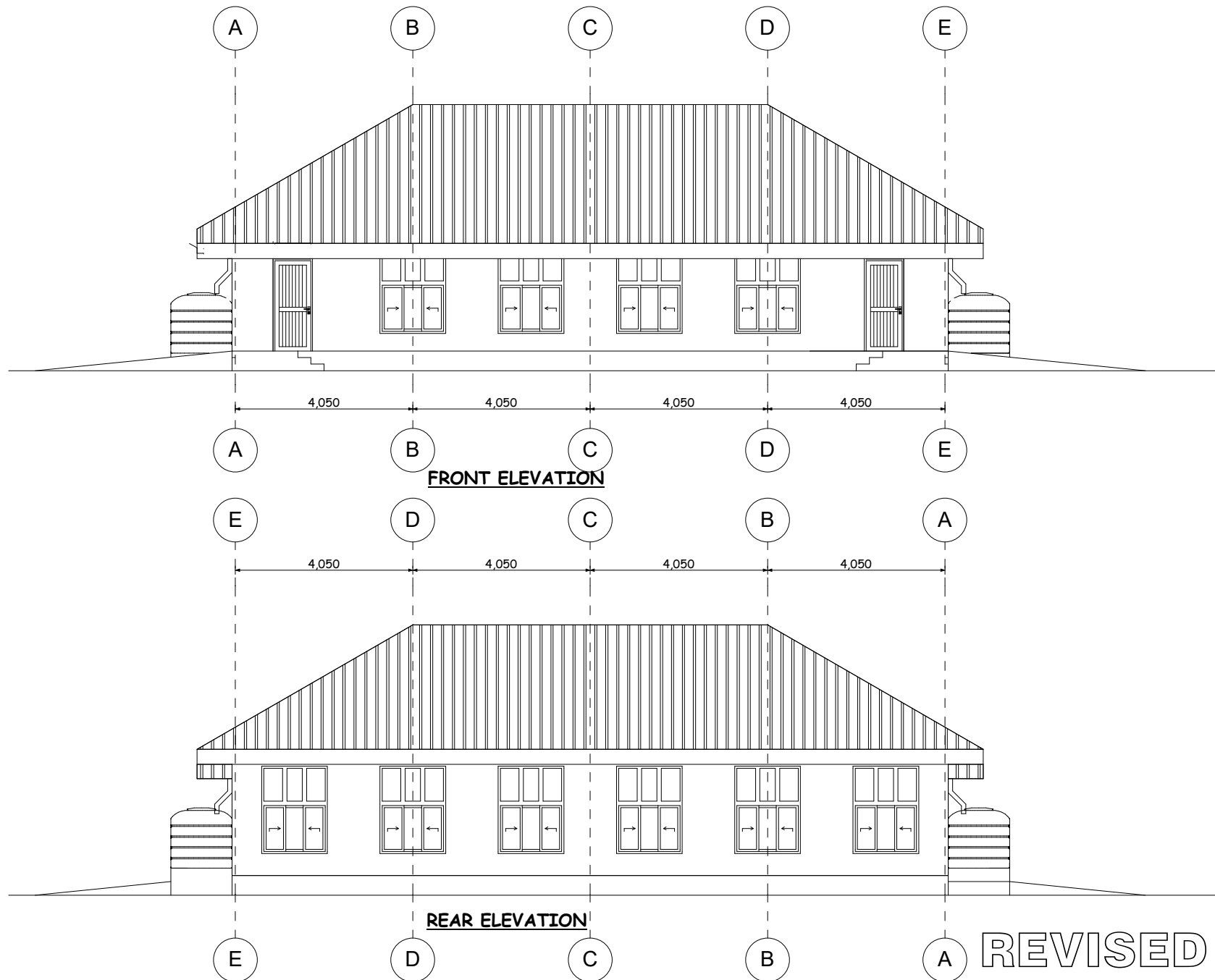
Date	December, 2022
Drawn by	IAS
Checked by	AAL
Scale	To fit



REVISED 1

REVISED 1





MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT

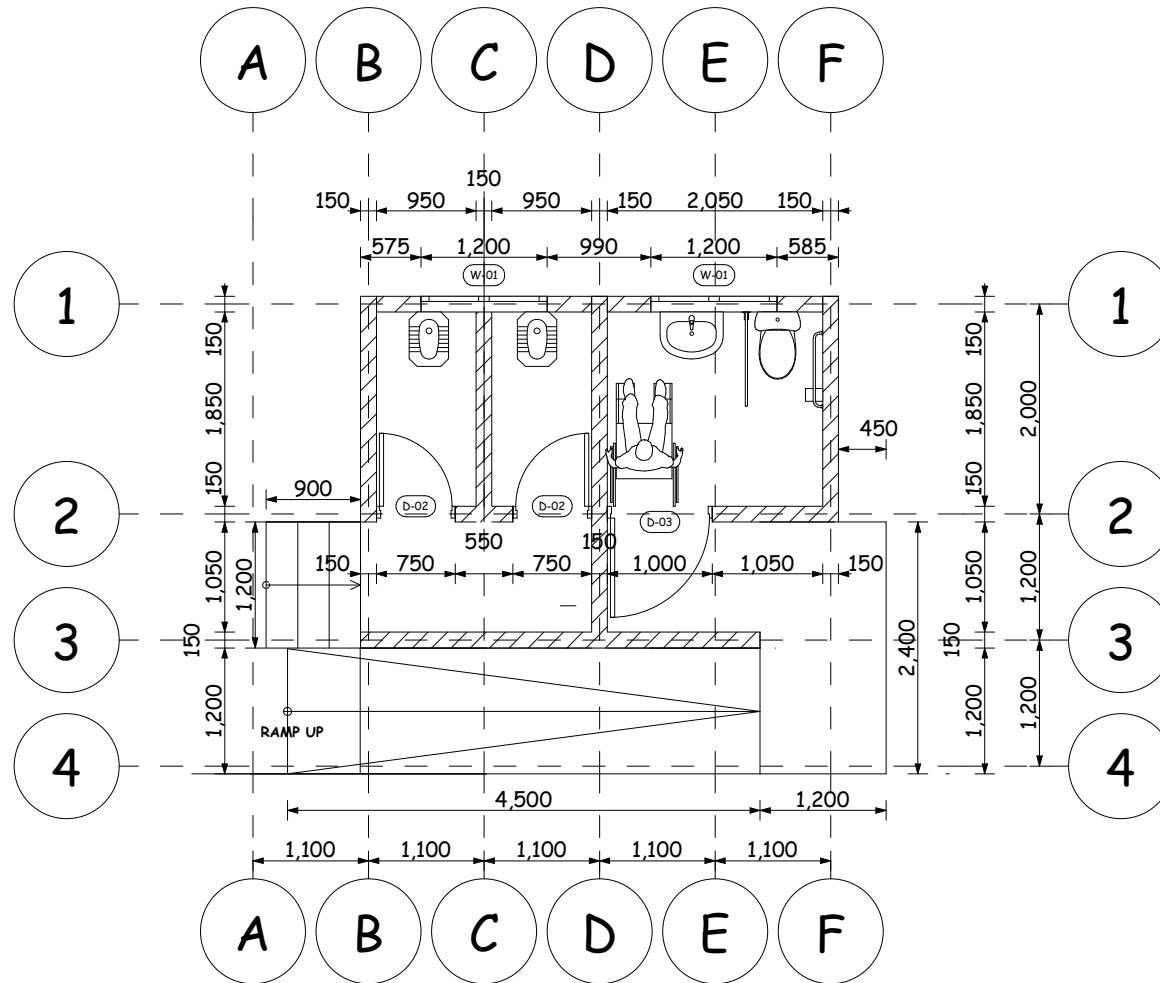
PROVISIO OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS
PROPOSED STANDARD DESIGN FOR PRE PRIMARY SCHOOL CLASSROOMS

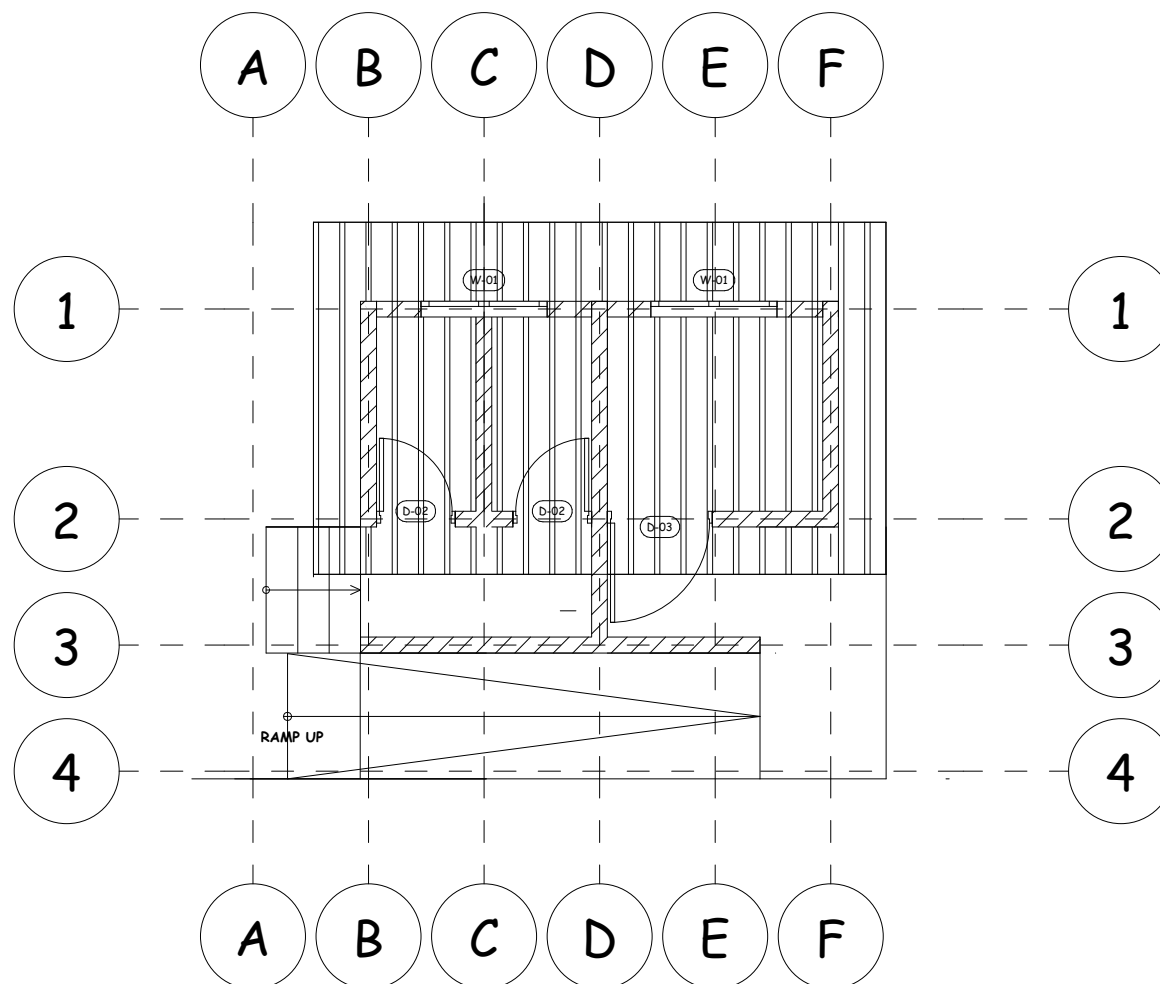
DRAWING TITLE:
**FRONT AND REAR ELEVATIONS
AREA PRONE TO EARTHQUAKE**
DRAWING NO: ARC/PPS/05

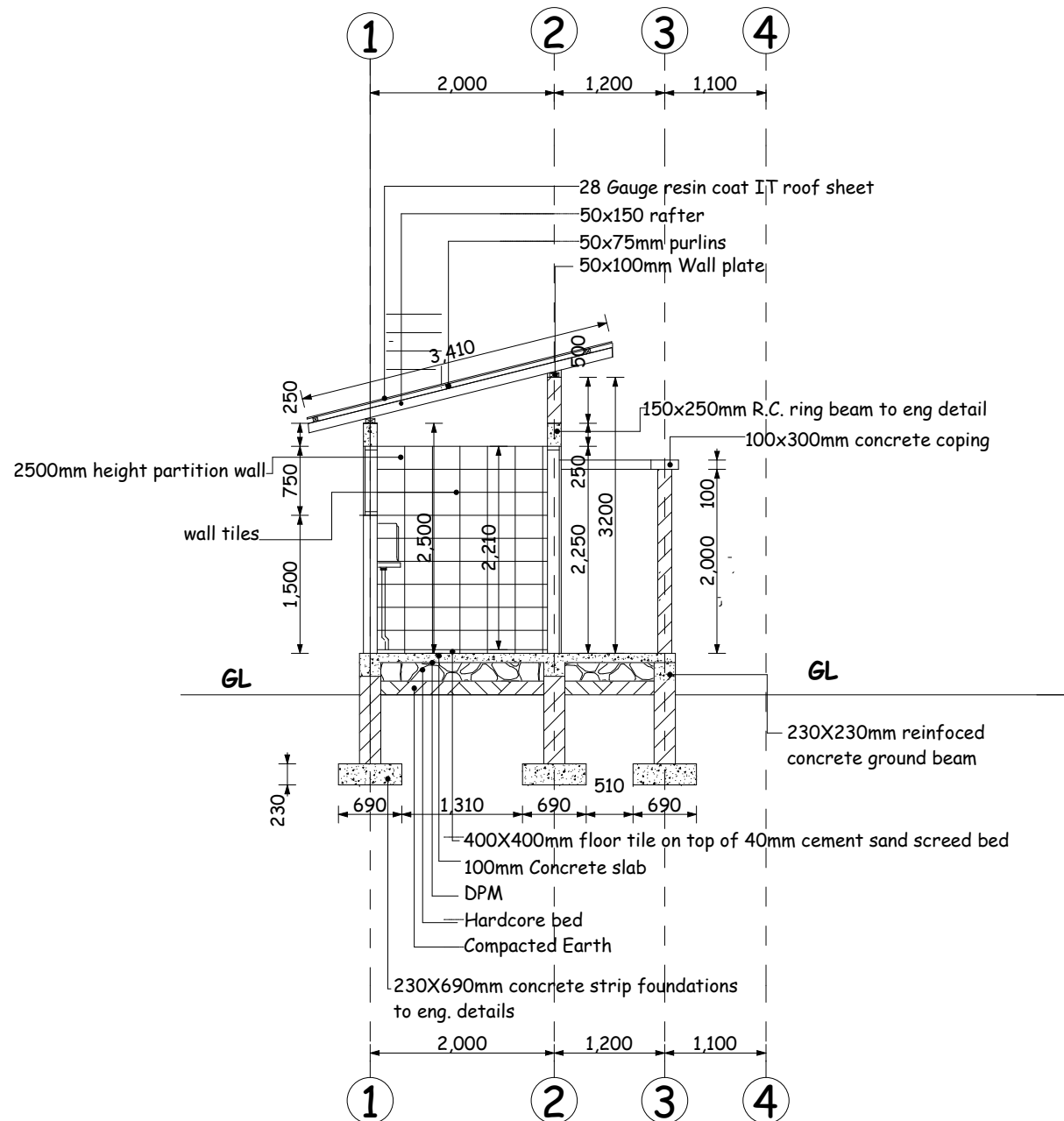
Date	December, 2022
Drawn by	IAS
Checked by	AAL
Scale	To fit

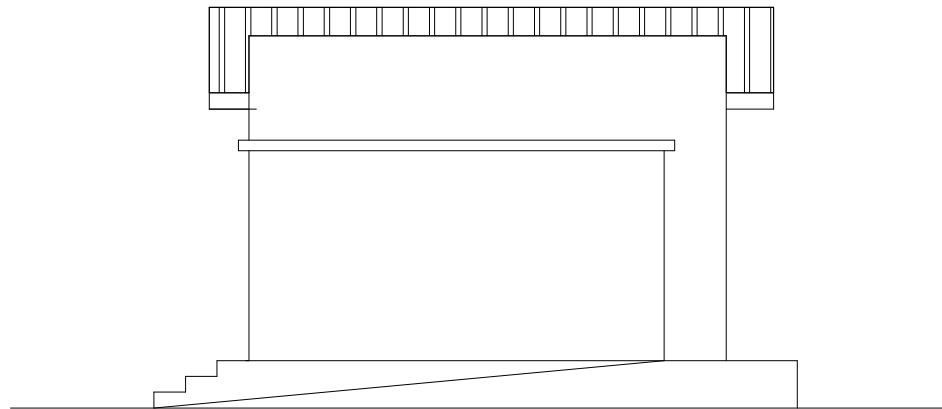
**TOILET BLOCKS - PIPED WATER AREA FOR PRE PRIMARY
(2 STANCES) WITH FACILITY FOR DISABLED**

WINDOW SCHEDULE		
WINDOW TYPE	HEIGHT X WIDTH	QUANTITY
W-01	750 X 1200	02
DOOR SCHEDULE		
DOOR TYPE	HEIGHT X WIDTH	QUANTITY
D-02	2100 X 750	02
D-03	2100 X 1000	01

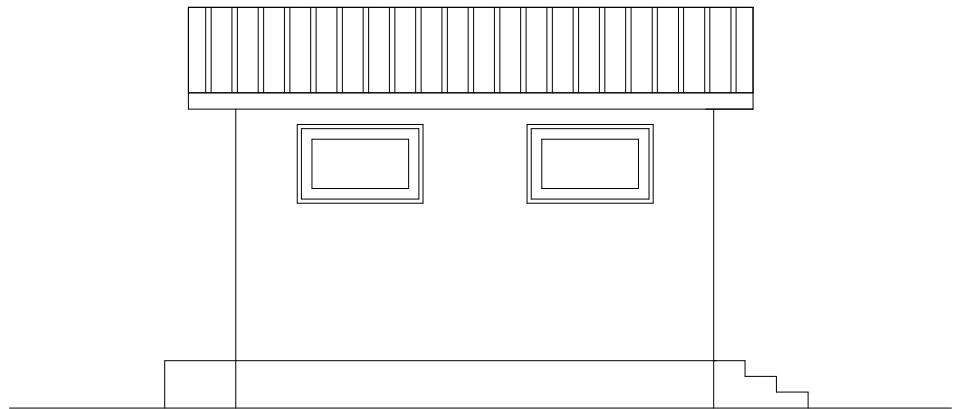




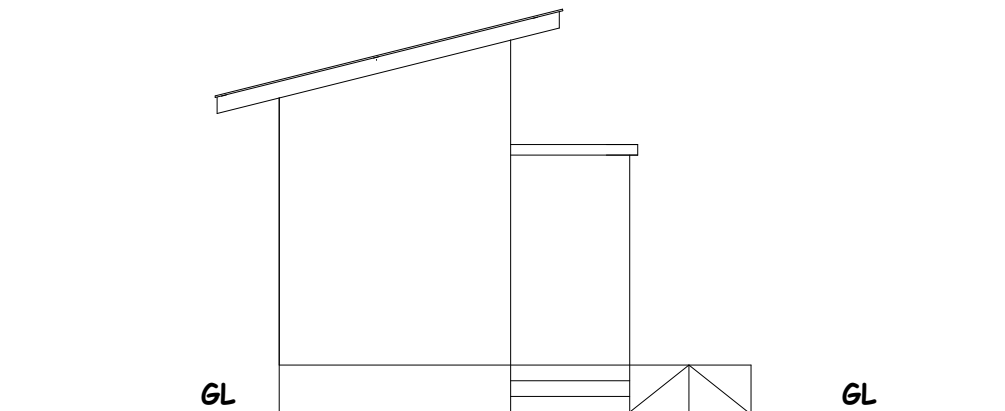




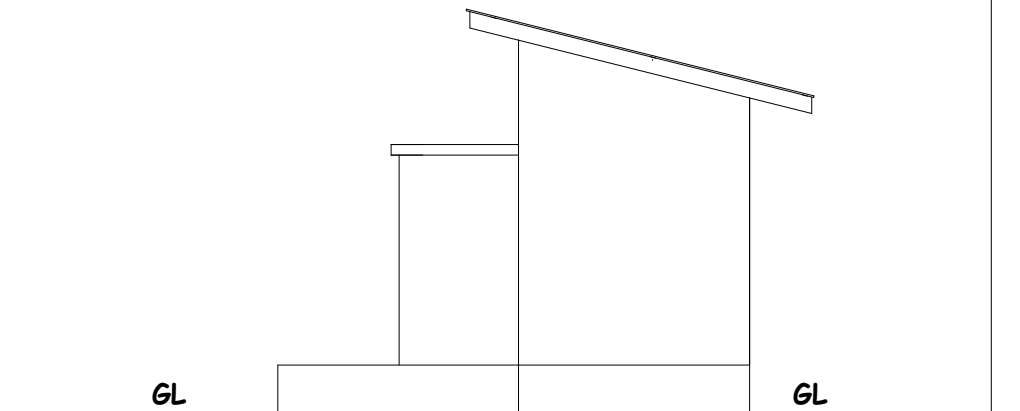
FRONT ELEVATION



REAR ELEVATION



SIDE ELEVATION



SIDE ELEVATION

STRUCTURAL DRAWINGS

FOR

**PRE-PRIMARY CLASSROOM BLOCK TYPE A - 2 ROOMS - HIPPED
AREA PRONE TO EARTHQUAKE**

NOTE:-

- All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
- All structural engineering drawings should be read in conjunction with relevant architectural drawings.
- All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm² at 28 days.
- Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm².
- Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
- Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
- Clear cover for reinforcement shall be as follows:
 - Slabs25mm
 - Beams25mm
 - Columns25mm
 - Footings.....50mm
- All concrete work to be done in one operation.
- All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
- Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
- Minimum Compressive Strength for Blocks shall be 3.5N/mm².

PROJECT:
PROVISION OF PHYSICAL
FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION,
SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT.

Designed by: Eng. J.M.S
Checked by: Eng. N.T.B
Approved by:

DRAWING TITLE:

PRE-PRIMARY -
CLASSROOMS BLOCK

COLUMN FOOTINGS AND
COLUMNS DETAILS
(REVISED -1)

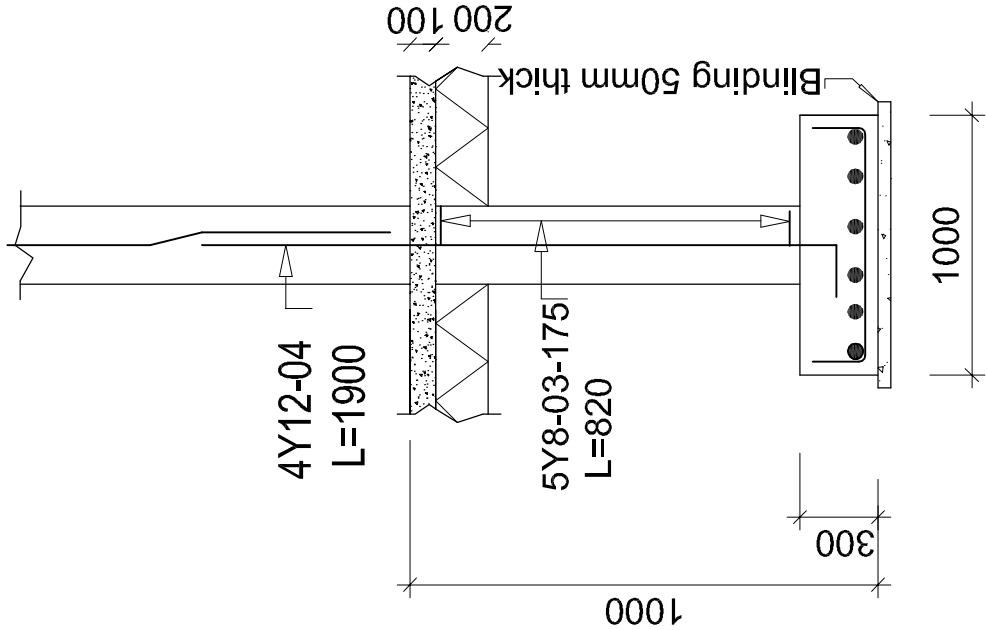
DRAWING USE:
For Building permit: ☐
For Construction: ☒

Drawn by: J.M.S

Date: 2022

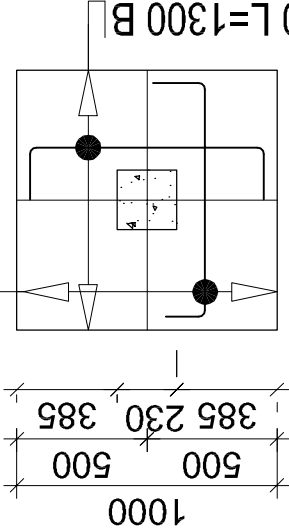
Drawing No:STR.CR

Sheet: 02/08

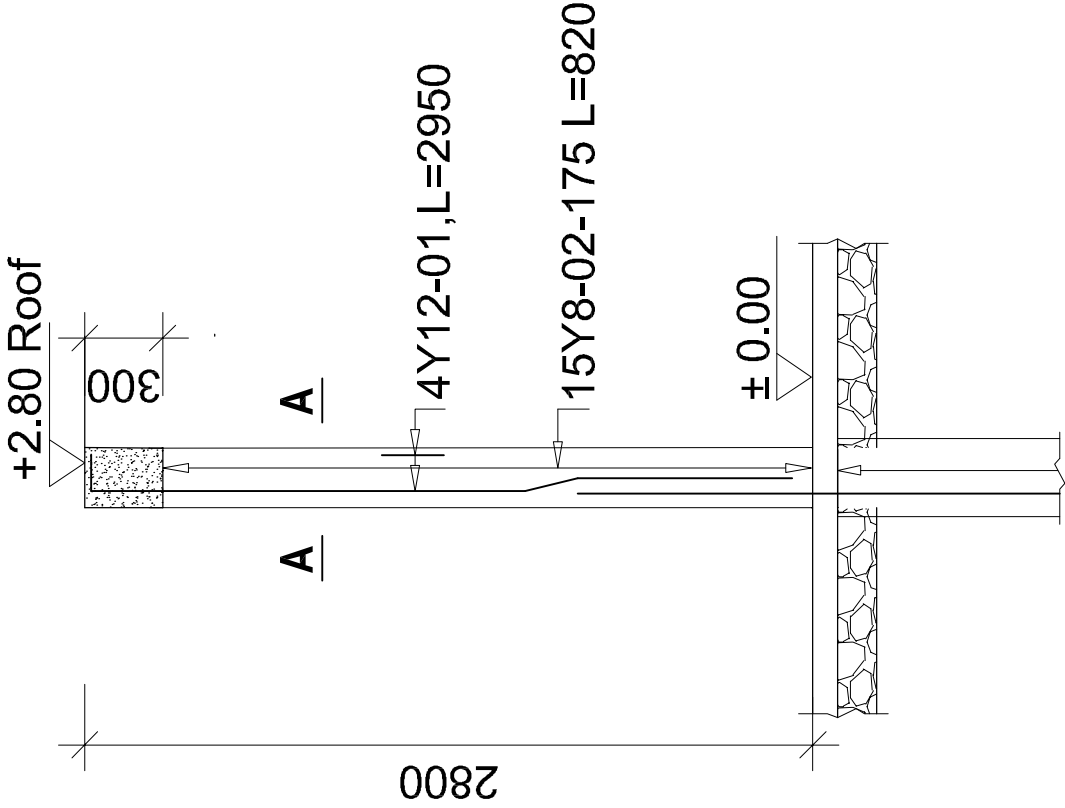


FOOTING F1 (1000x1000x300) 6Nos.

Scale 1:50

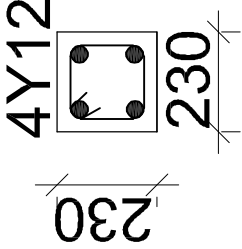


385 230 385
500 500
1000



COLUMN C1(230 x 230), 6Nos

Scale 1:100



Section A - A

Scale 1:50

NOTE:-

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm² at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm².
5. Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:
 - Slabs25mm
 - Beams25mm
 - Columns25mm
 - Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm².

PROJECT:

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT.

Designed by: Eng. J.M.S

Checked by: Eng. N.T.B

Approved by:

DRAWING TITLE:

PRE-PRIMARY -
CLASSROOMS BLOCK

GROUND FLOOR BEAMS LAYOUT
PLAN AND SECTION DETAILS
(REVISED - 1)

DRAWING USE:

For Building permit:

For Construction:

Drawn by:

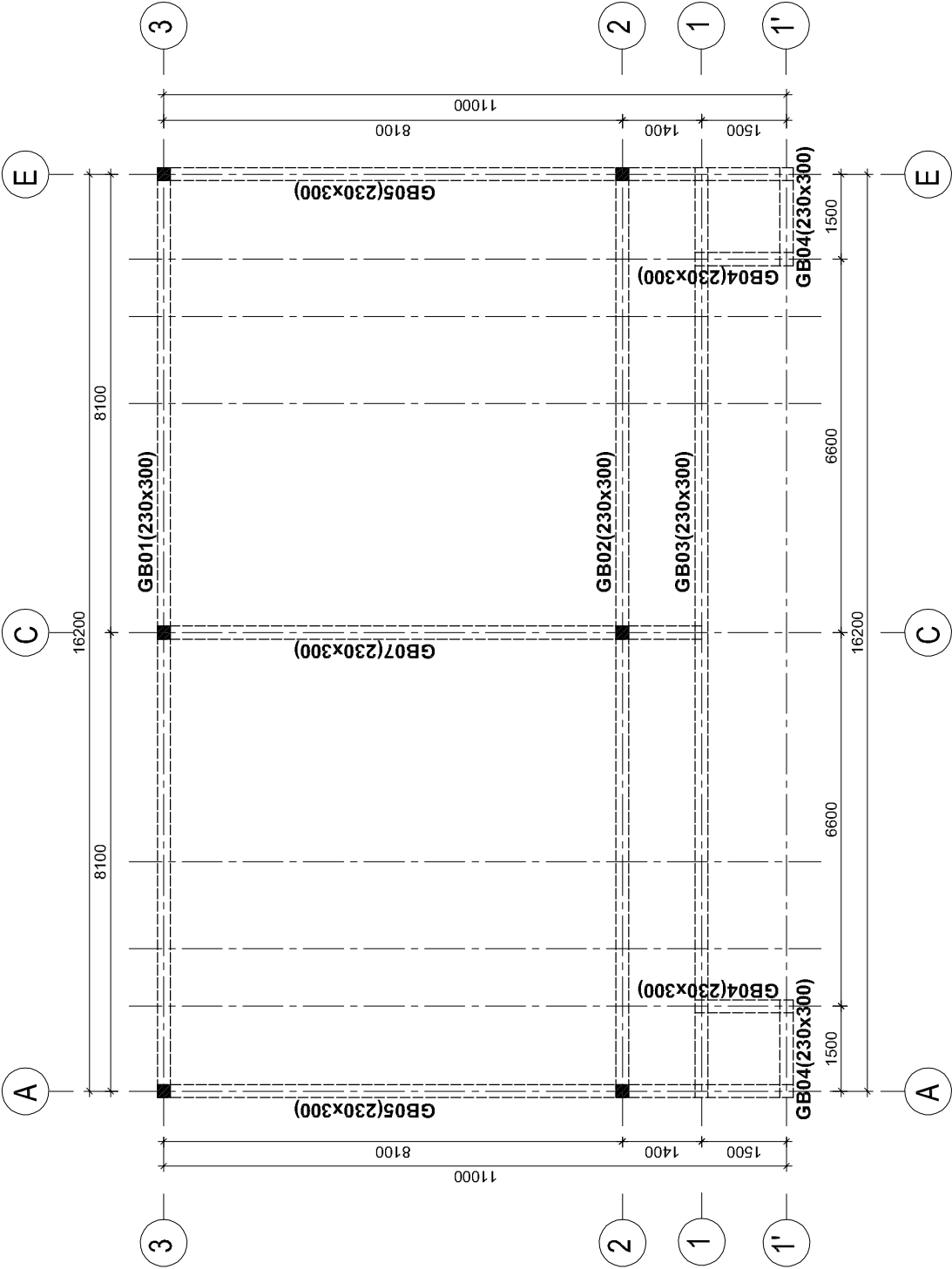
J.M.S

Date: 2022

Scale:

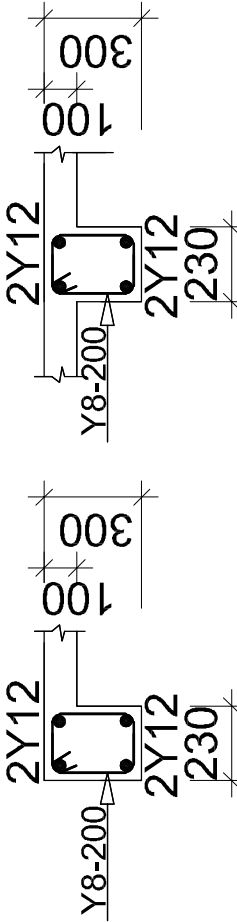
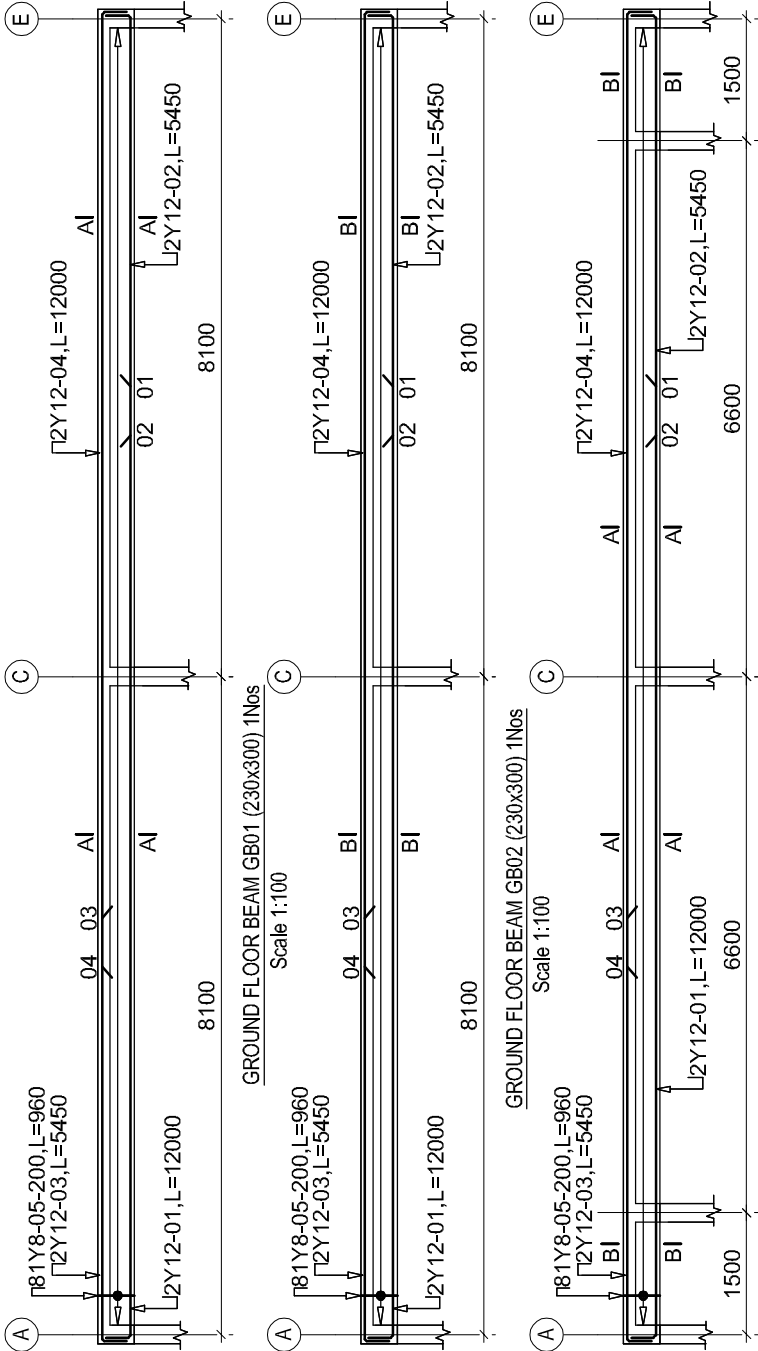
Drawing No:STR.CR

Sheet: 03/08



GROUND FLOOR BEAMS LAYOUT PLAN

Scale 1:100

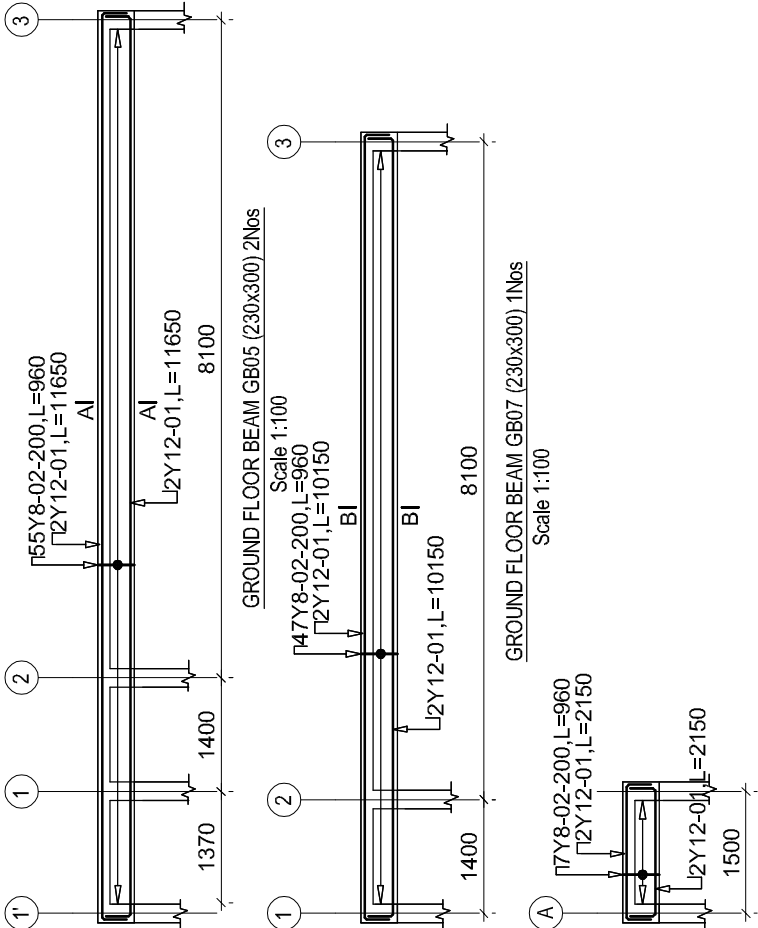


SECTION A - A

Scale 1:50

SECTION B - B

Scale 1:50



GROUND FLOOR BEAM
GB04 (230x300) 4Nos Scale 1:100

The drawing consists of three main parts: a layout plan and two cross-sections.

ROOF RING BEAMS LAYOUT PLAN
 Scale 1:100
 This plan shows a rectangular layout of roof ring beams. The overall dimensions are 16200 mm by 8100 mm. The layout is defined by grid lines A-E and 1'-3. The beams are labeled as follows:
 - RB01 (230x300) along grid line 3.
 - RB02 (230x300) along grid line 1'.
 - RB03 (150x300) along grid line 2.
 - RB04 (230x300) along grid line 1.
 The spacing between grid lines is: 1' to 1 = 1500 mm, 1 to 2 = 1400 mm, 2 to 3 = 11000 mm. The spacing between grid lines A to C is 8100 mm, and C to E is 16200 mm.

SECTION A-A
 Scale 1:50
 This section shows the cross-section of the roof ring beam RB01. The beam is 230 mm wide and 300 mm high. It is supported by a 150 mm wide and 300 mm high concrete base. The section is labeled with 2Y12 and Y8-200.

SECTION B-B
 Scale 1:50
 This section shows the cross-section of the roof ring beam RB02. The beam is 230 mm wide and 300 mm high. It is supported by a 150 mm wide and 300 mm high concrete base. The section is labeled with 2Y12 and Y8-200.

SECTION C-C
 Scale 1:100
 This section shows the cross-section of the roof ring beam RB03. The beam is 150 mm wide and 300 mm high. It is supported by a 150 mm wide and 300 mm high concrete base. The section is labeled with 2Y12 and Y8-200.

- PROJECT:**
PROVISION OF PHYSICAL
FACILITIES IN PRIMARY SCHOOLS

Designed by: Eng. J.M.S
Checked by: Eng. N.T.B
Approved by:

**ROOF RINGS BEAMS LAYOUT PLAN
AND SECTION DETAILS
(REVISED - 1)**

Drawn by:	J.M.S
Date: 2022	Scale:
Drawing No:STR.CR	Sheet: 04/08

NOTE:

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
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4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm².
5. Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

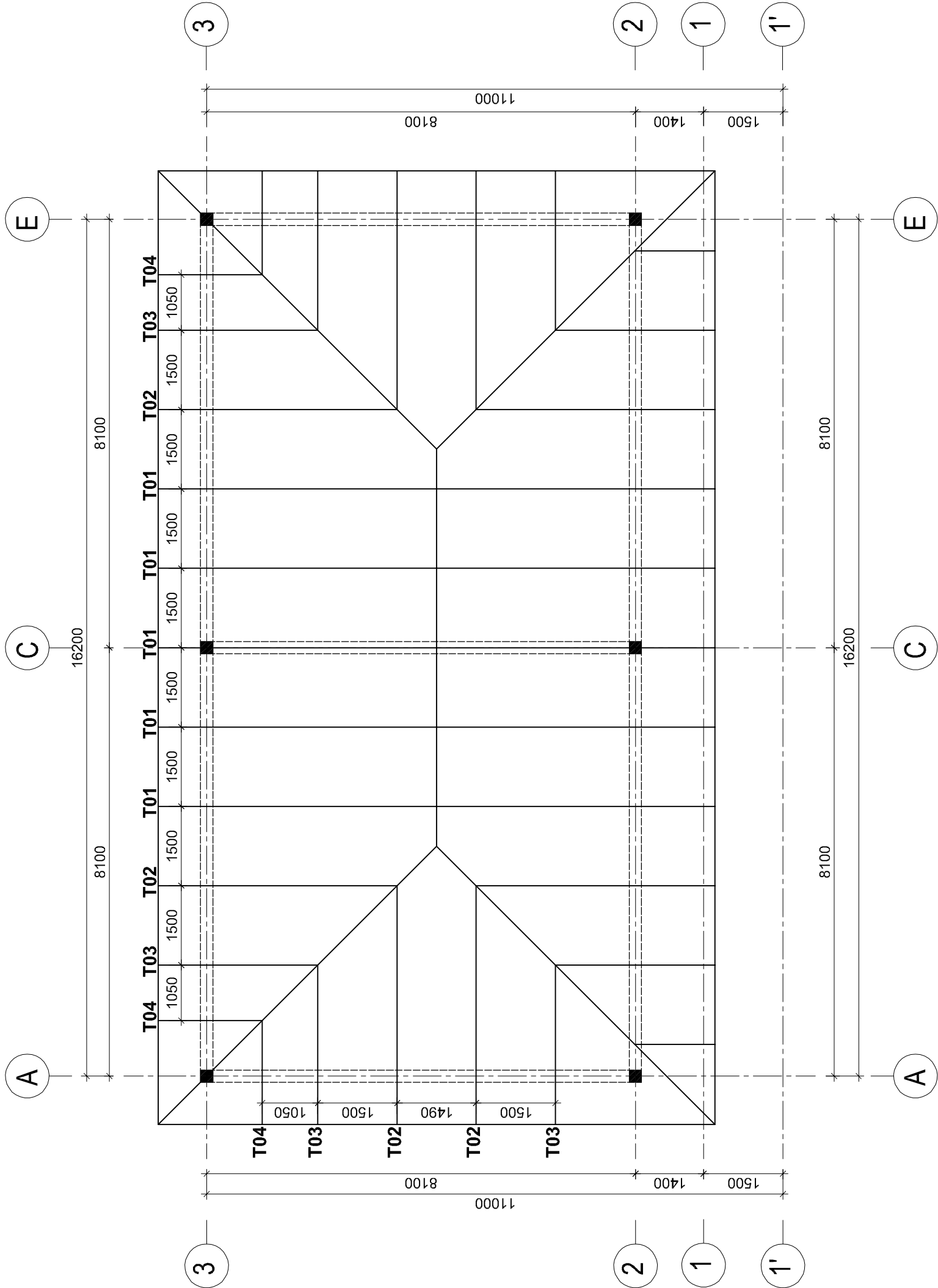
• Slabs25mm

• Beams25mm

• Columns25mm

• Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm².

PROJECT: PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY <i>IN COLLABORATION WITH</i> PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.
Designed by: Eng. J.M.S Checked by: Eng. N.T.B Approved by:
DRAWING TITLE: PRE-PRIMARY - CLASSROOMS BLOCK ROOF TRUSS LAYOUT PLAN (REVISED - 1)
DRAWING USE: <div>For Building permit:<div></div></div> <div>For Construction:<div></div></div>
Drawn by: J.M.S
Date: 2022
Drawing No:STR.CR
Scale: Sheet: 05/08



ROOF TRUSS LAYOUT PLAN
Scale 1:100

-
- The drawing illustrates a roof truss system with the following dimensions and components:
- Side Elevation Dimensions:**
 - Vertical dimensions: 800, 1700, 1205, 830, 915.
 - Horizontal dimensions: 800, 1700, 1205, 830, 1585.
 - Truss slope: 30°.
 - Truss height: 800.
 - Truss width: 1700.
 - Truss depth: 1205.
 - Truss length: 830.
 - Truss spacing: 1585.
 - Plan View Dimensions:**
 - Overall width: 2310.
 - Overall length: 1400.
 - Truss spacing: 1400.
 - Truss width: 1400.
 - Truss depth: 1205.
 - Truss length: 830.
 - Truss spacing: 1585.

Scale 1:100

2

3

2

Scale 1:100

—527—

The diagram shows a rectangular structure with a circular feature labeled '2' at the top-left corner. A dimension line indicates a length of 1400 units along the bottom edge. The structure is composed of several parallel lines, suggesting a channel or a frame.

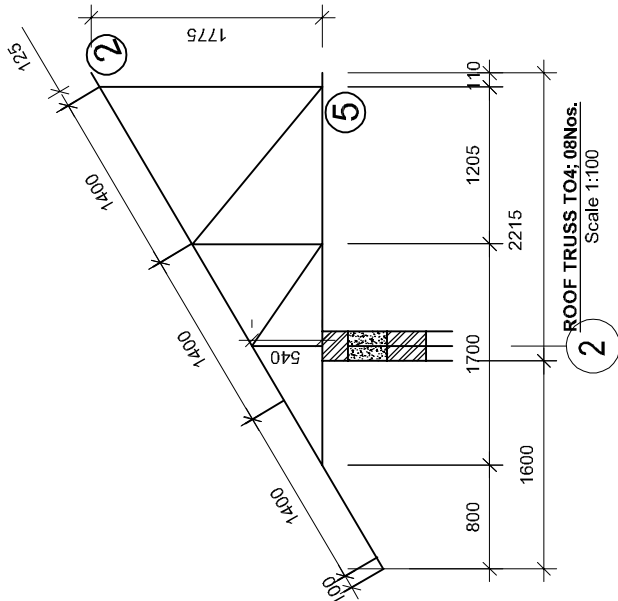
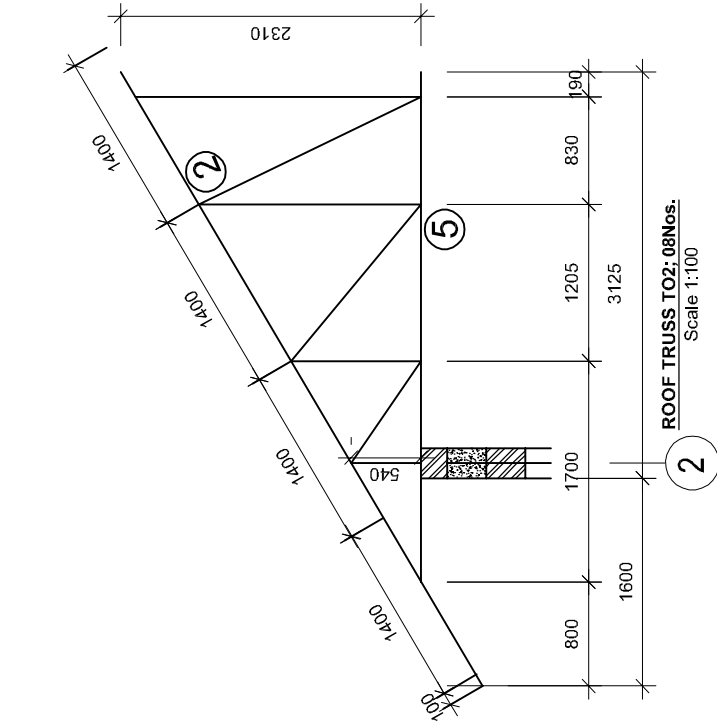
17

A 10x10 grid of 100 small squares. Each square contains a unique geometric pattern composed of black lines and numbers. The patterns include various combinations of parallel lines, intersecting lines, and numbers (1, 2, 3, 4, 5, 6, 7, 8, 9, 10). The patterns are distributed across the grid in a way that suggests a complex, possibly fractal-like, structure.

	1600	2215	1600	2215
1	1600	2215	1600	2215
2	1600	2215	1600	2215
3	1600	2215	1600	2215
4	1600	2215	1600	2215
5	1600	2215	1600	2215
6	1600	2215	1600	2215
7	1600	2215	1600	2215
8	1600	2215	1600	2215
9	1600	2215	1600	2215
10	1600	2215	1600	2215
11	1600	2215	1600	2215
12	1600	2215	1600	2215
13	1600	2215	1600	2215
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78	1600	2215	1600	2215
79	1600	2215	1600	2215
80	1600	2215	1600	2215
81	1600	2215	1600	2215
82	1600	2215	1600	2215
83	1600	2215		

—

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NOTE:

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PROJECT:
PROVISION OF PHYSICAL
FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION,
SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT.

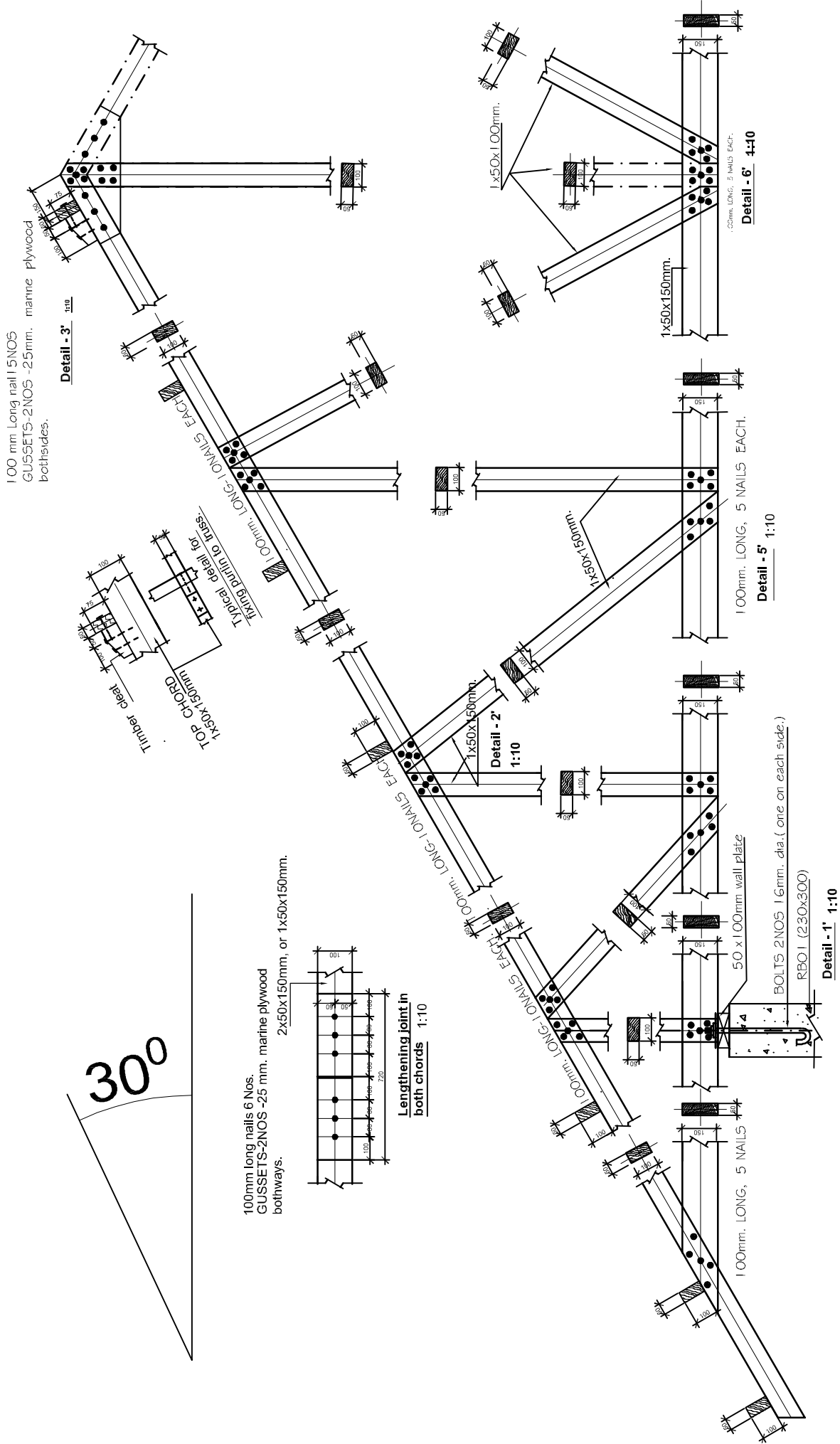
Designed by: Eng. J.M.S
Checked by: Eng. N.T.B
Approved by:

DRAWING TITLE:
PRE-PRIMARY -
CLASSROOMS BLOCK

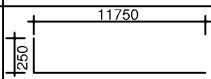
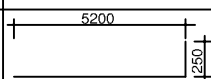
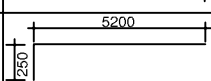
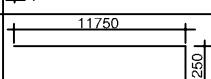
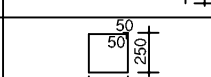
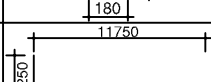
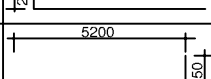
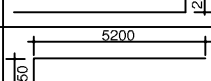
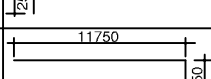
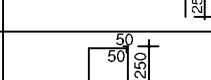
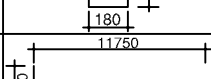
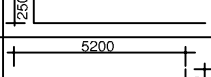
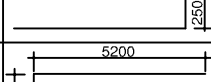
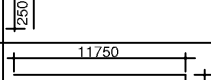
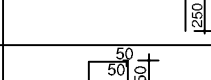
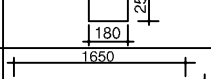
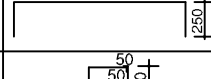
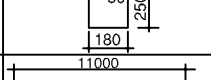
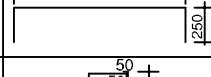
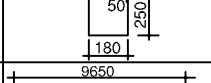
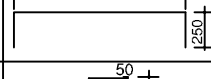
ROOF TRUSS
CONNECTION DETAILS
(REVISED - 1)

DRAWING USE:
For Building permit:
For Construction:

Drawn by: J.M.S
Date: 2022
Drawing No:STR.CR
Sheet: 07/08



TYPICAL TRUSS CONNECTIONS DETAIL

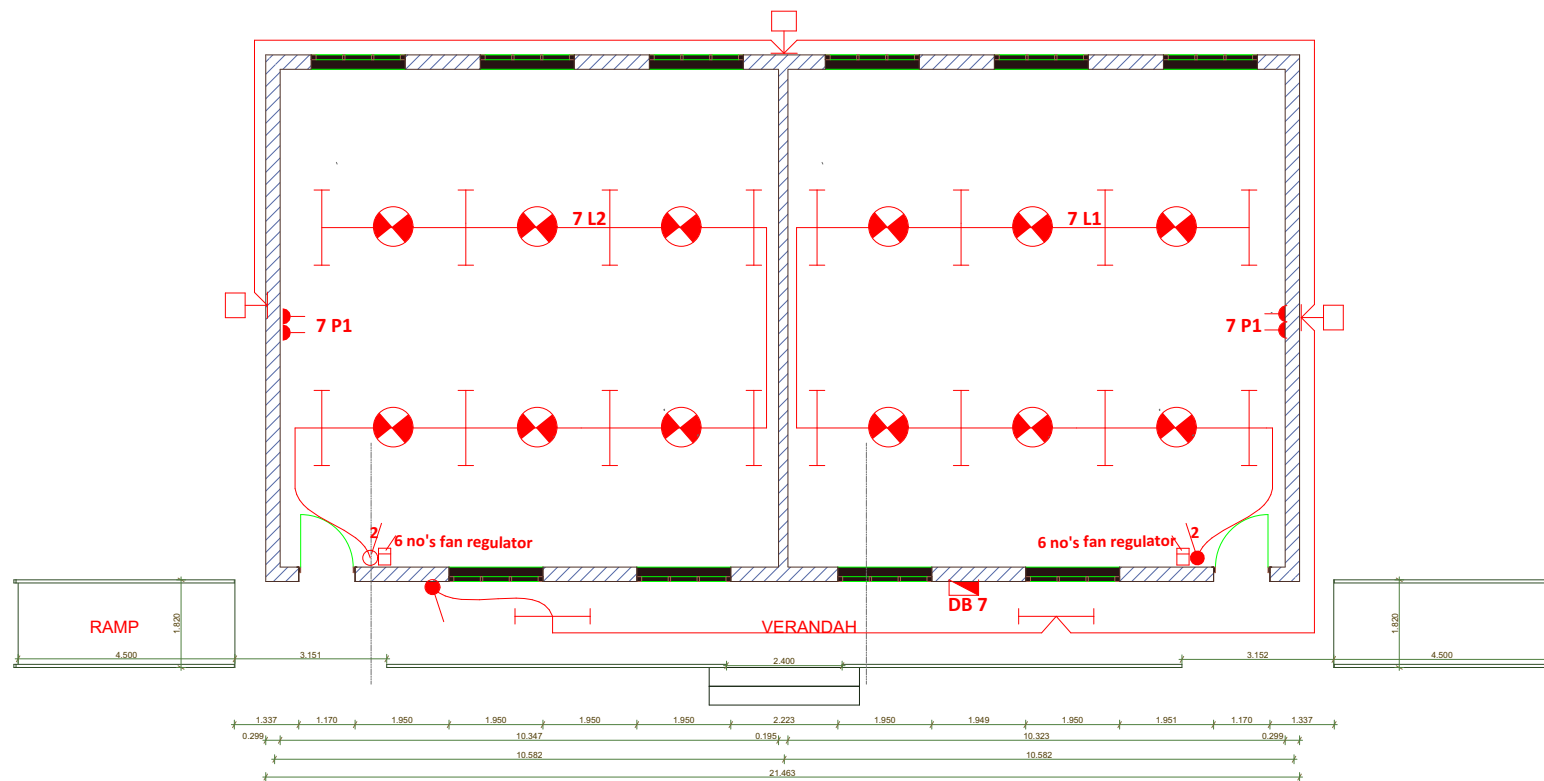
Page 1/2	Bar Bending Schedule							
	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PRE-PRIMARY CLASSROOMS BLOCK (GROUND FLOOR BEAMS)							
MEMBER TYPE	NUMBER OF MEMBER	MARK No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO.OF BARS	TOTAL LENGTH (m)	SKETCH OF BAR DIMENSIONS IN (mm)	NOTES
GROUND BEAM 1	1	01	Y12	12000	2	24		
GROUND BEAM 1	1	02	Y12	5450	2	10.9		
GROUND BEAM 1	1	03	Y12	5450	2	10.9		
GROUND BEAM 1	1	04	Y12	12000	2	24		
GROUND BEAM 1	1	05	Y8	960	81	77.76		
GROUND BEAM 2	1	01	Y12	12000	2	24		
GROUND BEAM 2	1	02	Y12	5450	2	10.9		
GROUND BEAM 2	1	03	Y12	5450	2	10.9		
GROUND BEAM 2	1	04	Y12	12000	2	24		
GROUND BEAM 2	1	05	Y8	960	81	77.76		
GROUND BEAM 3	1	01	Y12	12000	2	24		
GROUND BEAM 3	1	02	Y12	5450	2	10.9		
GROUND BEAM 3	1	03	Y12	5450	2	10.9		
GROUND BEAM 3	1	04	Y12	12000	2	24		
GROUND BEAM 3	1	05	Y8	960	81	77.76		
GROUND BEAM 4	4	01	Y12	2150	16	34.4		
GROUND BEAM 4	4	02	Y8	960	28	26.88		
GROUND BEAM 5	2	01	Y12	11500	8	92		
GROUND BEAM 5	2	02	Y8	960	110	105.6		
GROUND BEAM 6	1	01	Y12	10150	4	40.6		
GROUND BEAM 6	1	02	Y8	960	47	45.12		

Bar Bending Schedule

PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PRE-PRIMARY CLASSROOMS BLOCK
(COLUMN FOOTINGS, COLUMNS AND ROOF RING BEAMS)

[illegible]

ELECTRICAL DRAWINGS



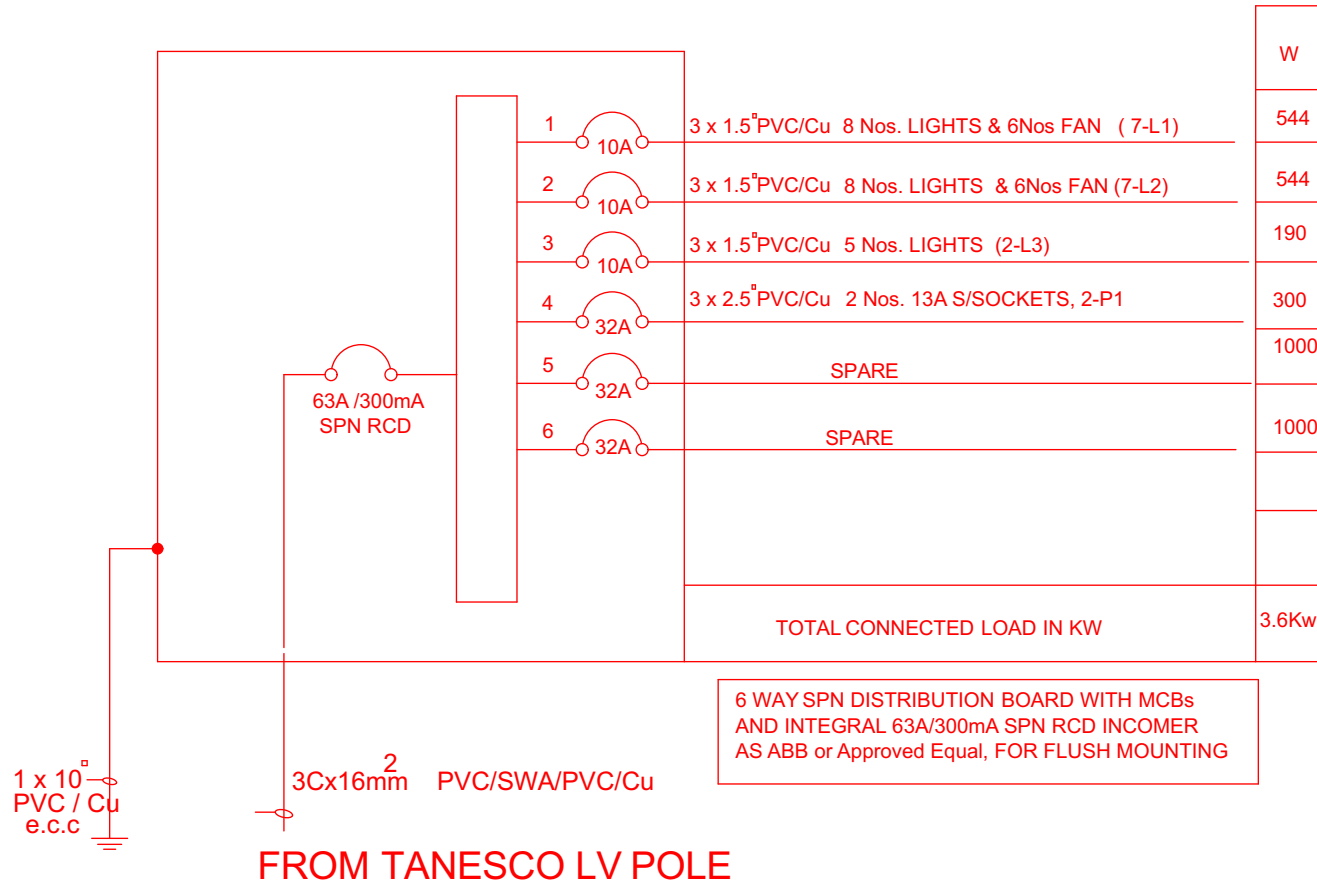
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
PRESIDENT'S OFFICE REGIONAL ADMINISTRATIVE AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRE PRIMARY SCHOOLS

DRAWING TITLE:
TWO CLASSROOM BLOCK
FLOOR LIGHTING & POWER LAYOUT
DRAWING NO: PRE/EL/CR/07

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022

2CLASSROOMS DISTRIBUTION BOARD (DB-7)



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GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRE
PRIMARY SCHOOLS

DRAWING TITLE:
TWO CLASSROOM BLOCK
SCHEMATIC LAYOUT
DRAWING NO: PRE/EL/CR/07

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022

KEY TO SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	Distribution Board with integral RCD	2000 mm AFFL
	Bulkhead light Fitting	Wall Mounted
	4FT Single Electronic Start Fluorecent Light	On Ceiling
	Ceilling Fan	On Ceiling
	Fan Regulator	1500 mm AFFL
	1 gang 1way Switch	1500 mm AFFL
	1 gang 2way Switch	1500 mm AFFL
	2 gang 2way Switch	1500 mm AFFL
	3 gang 1way Switch	
	2 gang 1way Switch	1500 mm AFFL
	4 gang 1way Switch	1500 mm AFFL
	Twin Switch Socket	450 mm AFFL
	Ceilling light complete with energy saver 11w	on level

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GORVENMENT

PROVISION OF PHYSICAL FACILITIES IN PRE
PRIMARY SCHOOLS

DRAWING TITLE:
THREE CLASSROOM BLOCK
LEGEND
DRAWING NO: P/EL/CR/07

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022