THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

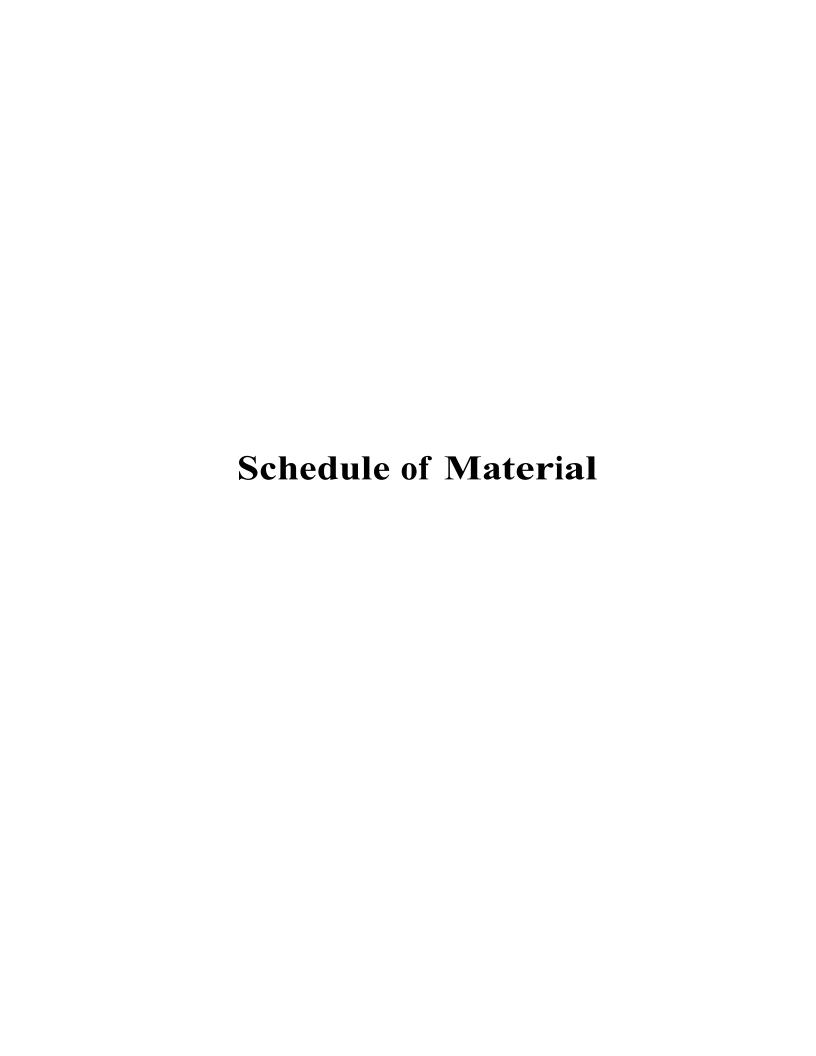
Schedule of Materials, Labour & Drawings for Three Classroom Block – Hipped (Earthquake zone)

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.



TEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	MATERIALS				
Α	SUB-STRUCTURE -PROVISIONAL				
4					
1	Strip Foundation - Grade 15 Plain	40	M^3		
	Aggregate (3/4")				
	Sand		M ³		
2	Cement-50kgs (42.5)	99	Bags		
2	Foundation Walls	4 = 40			
	6" Cement & Sand block - Minimum Strength 3. 5 MPa	1,540			
	Sand		M ³		
	Cement -50kgs (42.5)	26	Bags		
3	Moram, Hardcore & Site sterilization				
	Moram (4.5m³ lorry)		Trips		
	Hardcore 200mm thick - (4.5m ³ lorry)		Trips		
	Sand		M ³		
	Aldrin solution or other and equal approved (1000mls)	3	Bottle		
4	Oversite Concrete (23m³) 100mm thick - 15 grade ,Ground				
_	Beam and base column (8.5m ³) - 25 grade				
	DPM	240	M^2		
	Cement -50kgs (42.5)		Bags		
	Aggregates (1/2")		M^3		
	Sand		M^3		
	Reinforcement - 12mm diameter high tensile 460N/mm2		PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm2	49	PC'S		
	Binding Wire - 25kg		Kgs		
	A252 Mesh 200 x 200x 6.16kg/m2		PC'S		
	Timber 1" X 10 " (5.2m long)		PC'S		
	Timber 2" X 2"		PC'S		
	Nails-4"		Kgs		
	Nails-3"		Kgs		
	Supporting props		PC'S		
	SUB-TOTAL SUBSTRUCTURE			-	
В.	SUPERSTRUCTURE				
	Walls ring beam & Columns				
	6" Cement & Sand block - Minimum Strength 3. 5 MPa -230mm	2,596	No		
	6" Cement & Sand block - Minimum Strength 3. 5 MPa -150mm	396			
	DPC (20m)	2	Roll		
	Sand		M ³		
	Cement-50kgs (42.5)		Bags		
	Aggregates (1/2")		M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm2		PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm2		PC'S		
	Binding Wire - 25kg		Kgs		
	Timber 1" X 10" to Sides (5.2m long)		PC'S		
	Timber 1" X 5" (Plates)		PC'S		
	Timber 2" X 2"		PC'S		
	Supporting Props		PC'S		
	oupporting Frops	30	-03		
	SUB-TOTAL SUPER STRUCTURE				

TEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
C.	ROOF STRUCTURE & COVERING				
1	Roof Structure - Provisional				
	Timber 2 " X 3" Purlins		PC'S		
	Timber 2" X 4" King Post, wall plate and struts		PC'S		
	Timber 2" X 6" Rafter and Tie beam		PC'S		
	Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long)		PC'S		
	Nails -5"		Kgs		
	Nails -4"	60	Kgs		
	Nails -3"	45	Kgs		
	16mm diameter bolt	50	Pc's		
	NOTE: The above softwood timber structure should be pressure impregnated treated				
2	Roof Covering				
	28G IT5 resin coated sheet	359	m ²		
	Ridge - 28 G IT resin coated (3m long)		PC'S		
	Roofing Nails	36	Packet		
3	Gutter's		DOIO		
	Upvc 100mm half round (6m long)		PC'S		
	Upvc 75mm diameter down pipe; Class B		PC'S		
	PVC outlet		PC'S		
	PVC bend 90'		PC'S		
	PVC bend 45'		PC'S		
	Gutter support bracket		PC'S		
	Gutter Clamp 3"		PC'S		
	Connector/reducer		PC'S		
	Connector outer		PC'S		
	Corner Inner	10	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	_			
		2	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	CEILING				
	Gypsum board -9mm thick	85	PC'S		
	Plain Cornice (8ft)	65	PC'S		
	Screw 1.25" 500pcs/box	5	Вох		
	Gypsum powder	16	Bags		
	Fibre tape (90m)		Roller		
	Treated softwood Timber 2" X 2"	144	PC'S		
	Nails 4"	25	Kgs		
	Nails 3"		Kgs		
	SUB-TOTAL FOR CEILING				
Ε.	DOOR				
1	40mm thick hardwood Matchboarded door shutter				
	820 x2100mm high	.3	PC'S		
	· · · · · · · · ·				

DESCRIPTION

QTY UNIT

PRICE-TZS

AMOUNT

ITEM

I E IVI	DESCRIPTION	QIY	UNII	PRICE-128	AMOUNI
2	45X145mm Frames (hardwood) & Varnish				
	900 x 2500mm high frame		PC'S		
	5mm thick clear glass to Vents		m2		
	16mm diametere burglar bars -1100mm long		Pcs		
	Brush 3"		Pcs		
	Sand paper (msasa) No.80		LM		
	Clear Varnish - 4Litres		TIN		
	Thinner for Varnish	3	Litres		
3	IronMongeries - ref. Union				
	Mortice lock Three lever	3	No		
	Brass hinges - 100mm	5	No		
	SUB-TOTAL FOR DOORS				
F.	WINDOWS				
	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, ironmongries, cutting and pinning lugs				
	1500 X 1500mm high	15	PC'S		
	1000 X 1000mm mgm	13	, 55		
	SUB-TOTAL FOR WINDOWS				
G.	<u>FINISHING</u>				
1	Floor finishing				
	Bedding/Backing; cement sand and Chipping (1:2:2); to steel				
	finishing Allows Thick group lithin floor parced steel troudelling to amount				
	40mm Thick granolithic floor screed steel trowlelling to smooth finishing				
	Sand	13	M^3		
	Cement-50kgs (42.5)		Bags		
	Chipping "1/4"		M ³		
	2mm thick plastic Strips	307	-		
	Zillili tillek plastic Strips	307	IVI		
2	Wall Finishing -15mm thick (1:4)				
	Sand	17	M^3		
	Cement-50kgs (42.5)	113	Bags		
	Sand paper (msasa) No.120	12	М		
	White cement - 40kg	6	Bags		
	Gypsum powder -20Kg	14	Bags		
	SUB-TOTAL FOR FINISHING				
Н.	BALUSTERS & HANDRAIL				
	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 oxed and painted as per				
	architectural drawing to the aproval of Project Surpervisor.	18	m		
	SUB-TOTAL BALUSTERS & HANDRAIL				

ГЕМ	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J.	PAINTING & DECORATION				
J.	Emulsion Paint - 20 LTRS	13	buckets		
	Weather guard Paint - 20 LTRS		buckets		
	Washable paint -20 LTRS		buckets		
	Primer paint -20 LTRS		buckets		
	Solvent - 5LTRS		TIN		
	Brush 3"	3	Pcs		
	Roller	3	Pcs		
	Blackboard paint	6	Litres		
	Gloss paint-4LTR	4	TIN		
	Bitumen paint - 4Litres	6	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
K.	ELECTRICAL INSTALLATION				
	Single fluorescent fitting Complete,LED philips or other equal approved	27	No		
	Double switch socket ABB or other equal approved	8	No		
	Main switch 6way,1PH with integral RCD 100A/300mmA ABB other				
	equal approved NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved	1	No		
	Single core wire 1.5sqmm - Red	3	Roll		
	Single core wire 1.5sqmm - Black	3	Roll		
	Single core wire 1.5sqmm -green	3	Roll		
	Single core wire 2.5sqmm - red		Roll		
	Single core wire 2.5sqmm	1	Roll		
	Single core wire 2.5sqmm green		Roll		
	Ceiling fan National or other equal approved		PC's		
	3gang 1 way switch ABB or other equal approved		No		
	2gang 1 way switch ABB or other equal approved Earth rod approved copper 16mm not less than 1200mm	3 1	No		
	Earth fou approved copper formit not less than 1200mm	ļ	No		
	Earth wire 4sqmm	20	М		
	Metal box twin		No		
	Metal box single		No		
	Junction box		No		
			PC's		
	Conduit pipe				
	Elbow Conduit coupling		PC's		
			PC's		
	Round cover		PC's		
	Round box	10	PC's		
	Fine screw	2	PACKET		
	plastic clips 22mm	2	BOX		
	Bulk head light fitting	5	PCS		

	SUMMARY	AMOUNT				
		TZS				
	3NO CLASSROOM BLOCK- EARTHQUAKE ZONE					
۹.	SUB-STRUCTURE -PROVISIONAL					
3.	SUPERSTRUCTURE					
Э.	ROOF STRUCTURE & COVERING					
Ο.	CEILING					
Ξ.	DOOR					
=.	WINDOWS					
Э.	FINISHING					
Ⅎ.	BALUSTERS & HANDRAILS					
J.	PAINTING & DECORATION					
K.	ELECTRICAL INSTALLATION					
	TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY					
	ADD:					
	LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form))				
	Note:					
	i. Refer attached specification and number of Furniture(s) for Three classroom Blockii. 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 .					

THE UNITED REPUBLIC OF TANZANIA

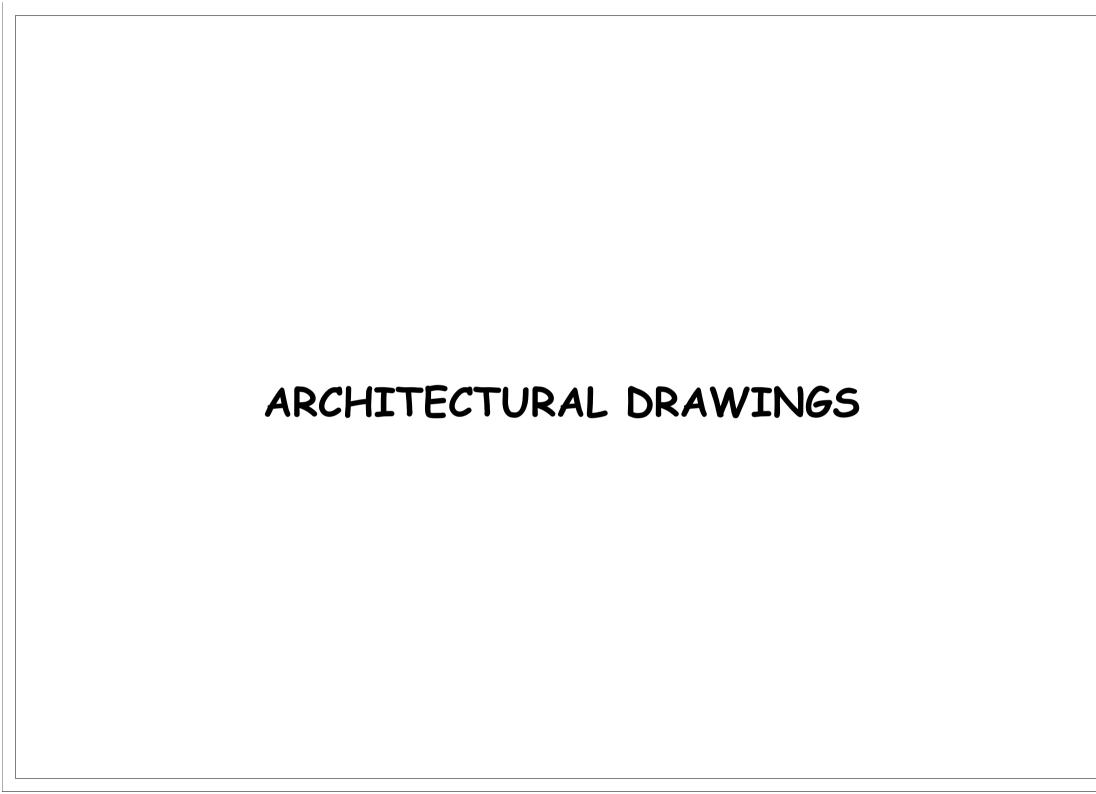
MINISTRY OF EDUCATION SCIENCE AND TECHNOLOGY

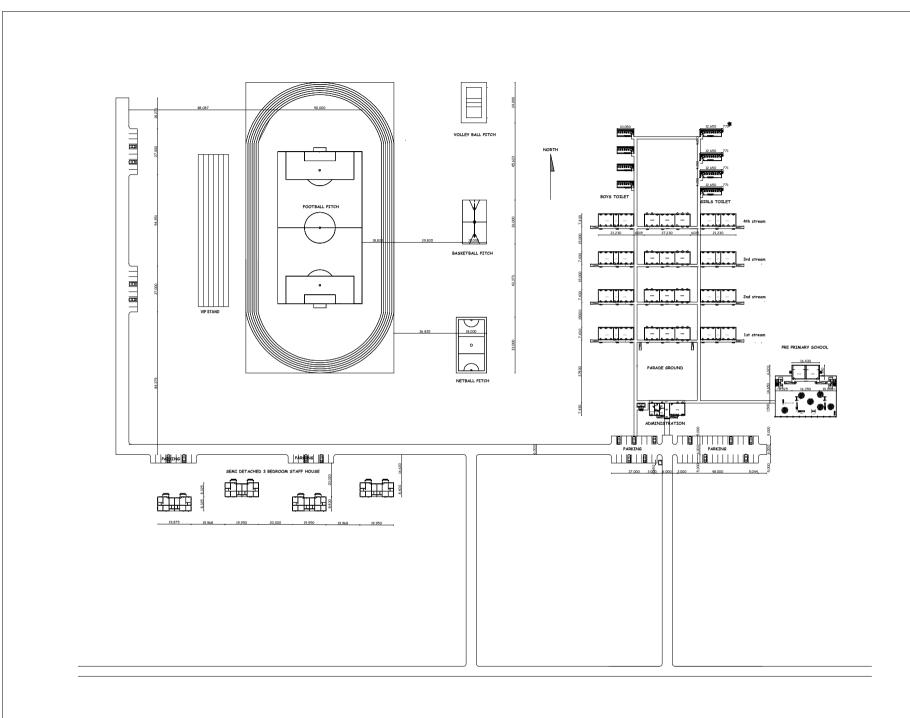
IN COLLABORATIONS WITH

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



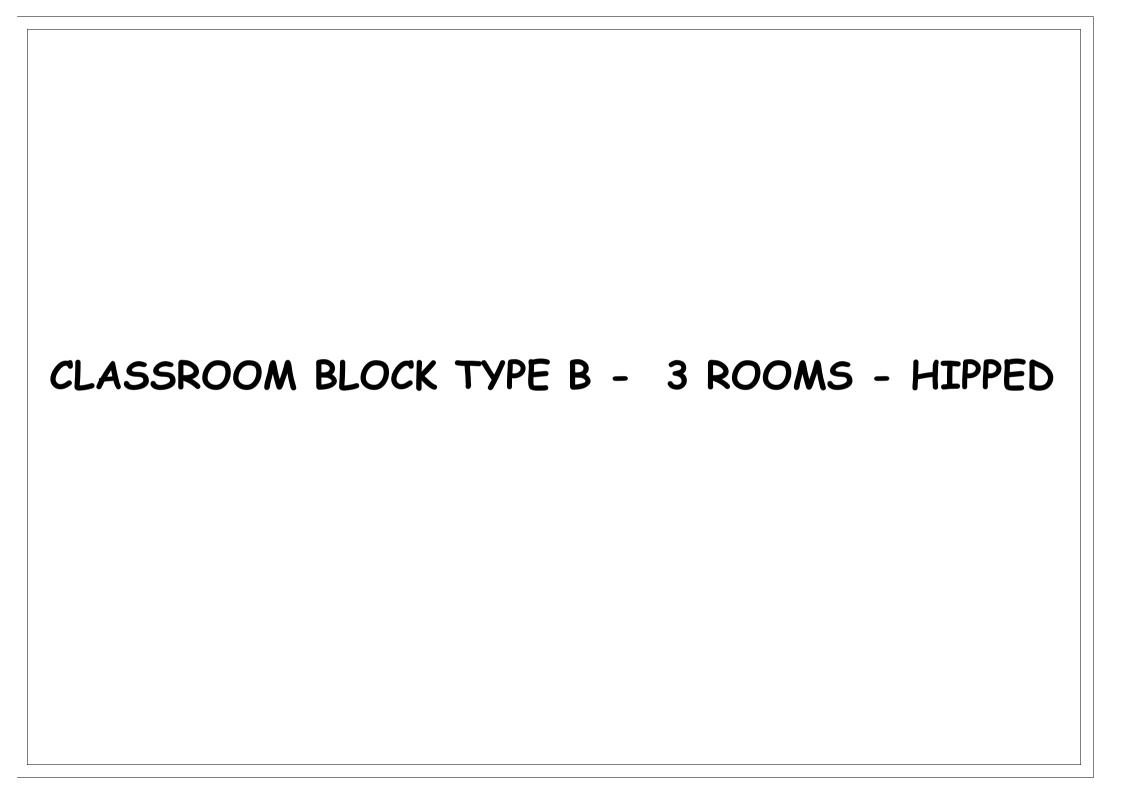


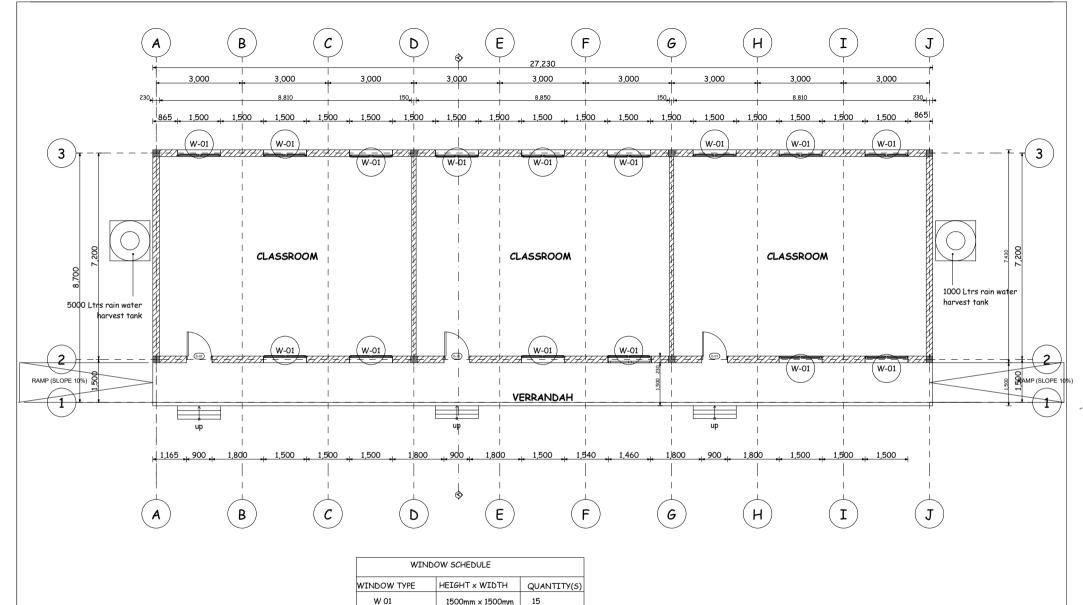
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT

PROVISIO OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

PROPOSED STANDARD DESIGN FOR PRE PRIMARY SCHOOL CLASSROOMS

DRAWING TITLE:	Date	December, 2022	
SAMPLE SITE PLAN	Drawn by	IAS	
	Checked by	AAL	
DRAWING NO: ARC/PPS/01	Scale	To fit	





WINDOW SCHEDULE					
WINDOW TYPE	HEIGHT × WIDTH	QUANTITY(5)			
W 01	1500mm × 1500mm	15			
TOTAL		15			
	DOOR SCHEDULE				
D 1	900mm × 2500mm	3			
TOTAL 3					

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

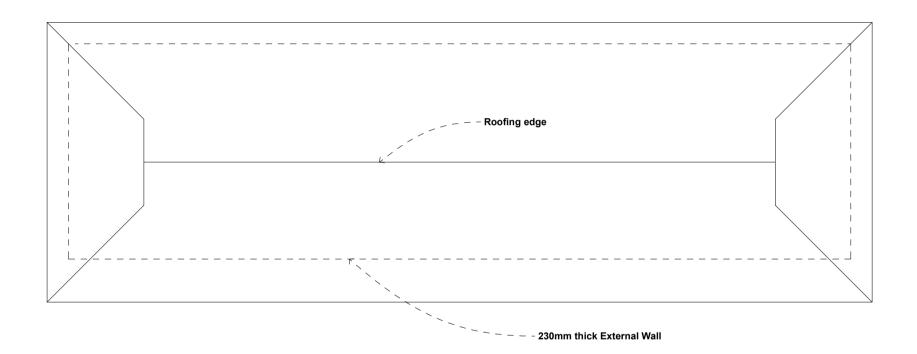
PROPOSED 3- CLASSROOMS BLOCK -HIPPED

DRAWING TITLE:

FLOOR PLAN AREA PRONE TO EARTH QUAKE

DRAWING NO: ARC/3CRH/01

Date	December 2022
Drawn by	IAS
Checked by	JR
Scale	To fit



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

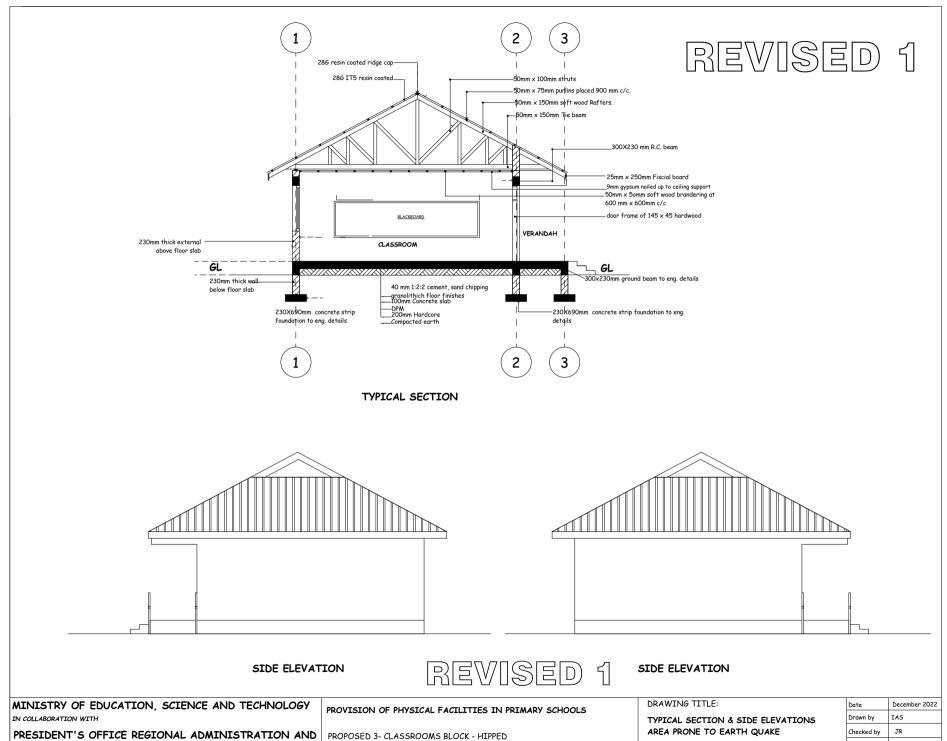
PROPOSED 3- CLASSROOMS BLOCK - HIPPED

DRAWING TITLE:

ROOF PLAN GABLE

DRAWING NO: ARC/3CRH/02

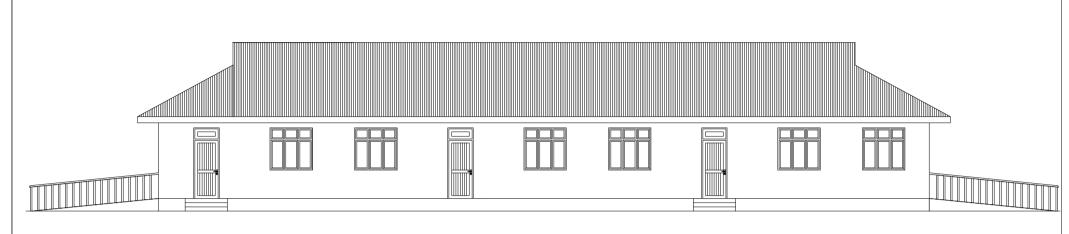
Date	December 2022
Drawn by	IAS
Checked by	JR
Scale	To fit



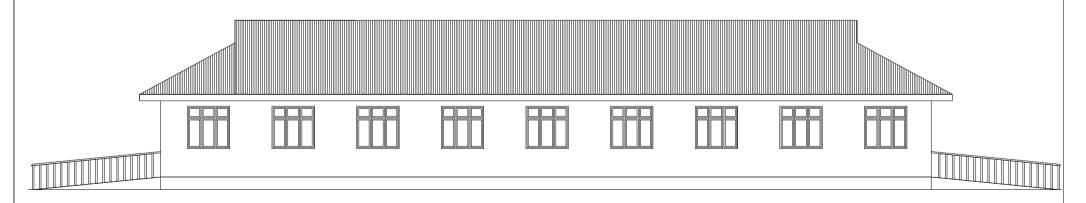
LOCAL GOVERNMENT

DRAWING NO: ARC/3CRBH/03

Date	December 2022
Drawn by	IAS
Checked by	JR
Scale	To fit



FRONT ELEVATION



REAR ELEVATION

REVISED 1

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY IN COLLABORATION WITH

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

 ${\tt PROVISION} \ {\tt OF} \ {\tt PHYSICAL} \ {\tt FACILITIES} \ {\tt IN} \ {\tt PRIMARY} \ {\tt SCHOOLS}$

PROPOSED 2- CLASSROOMS BLOCK

DRAWING TITLE:

FRONT AND REAR ELEVATIONS

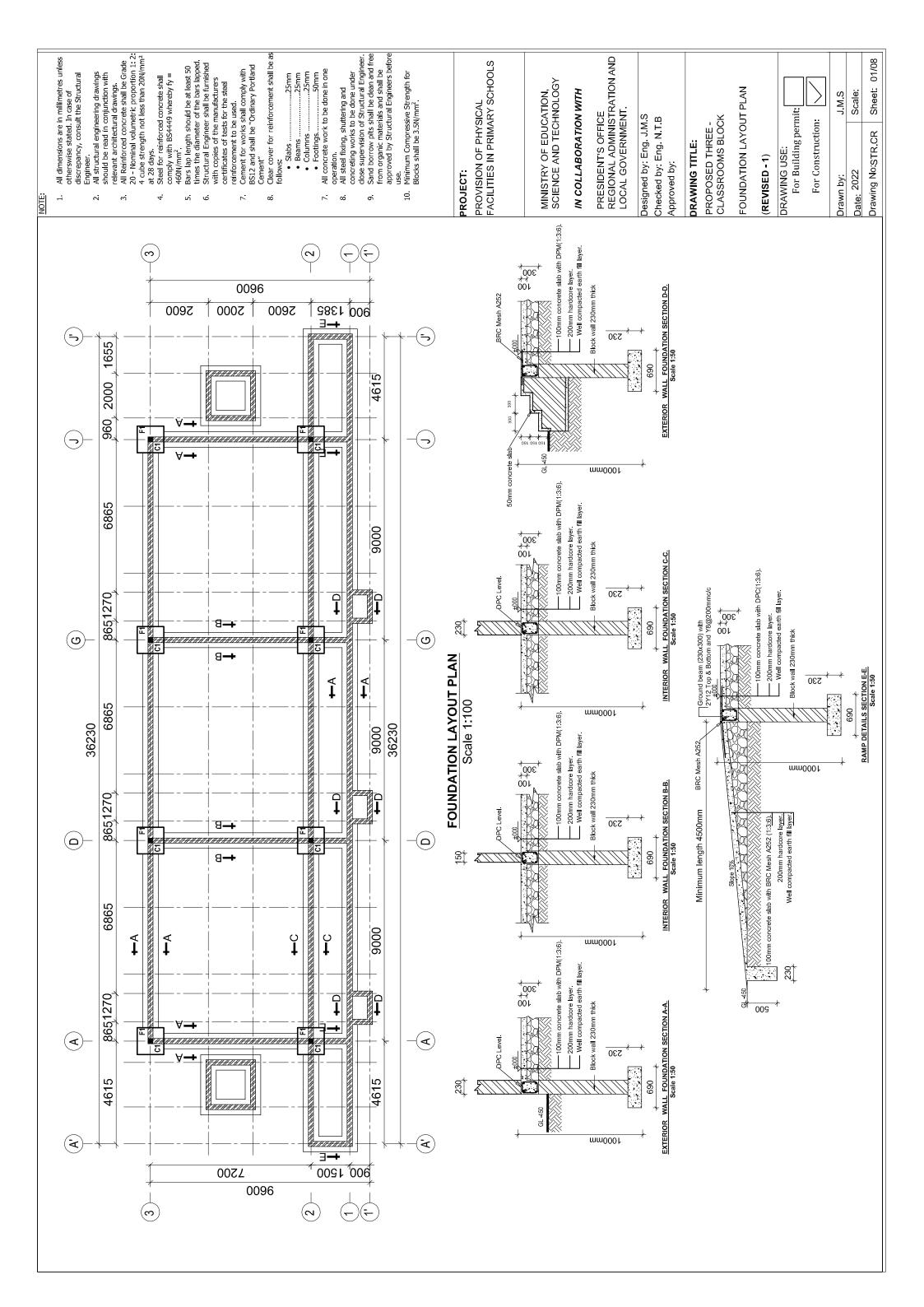
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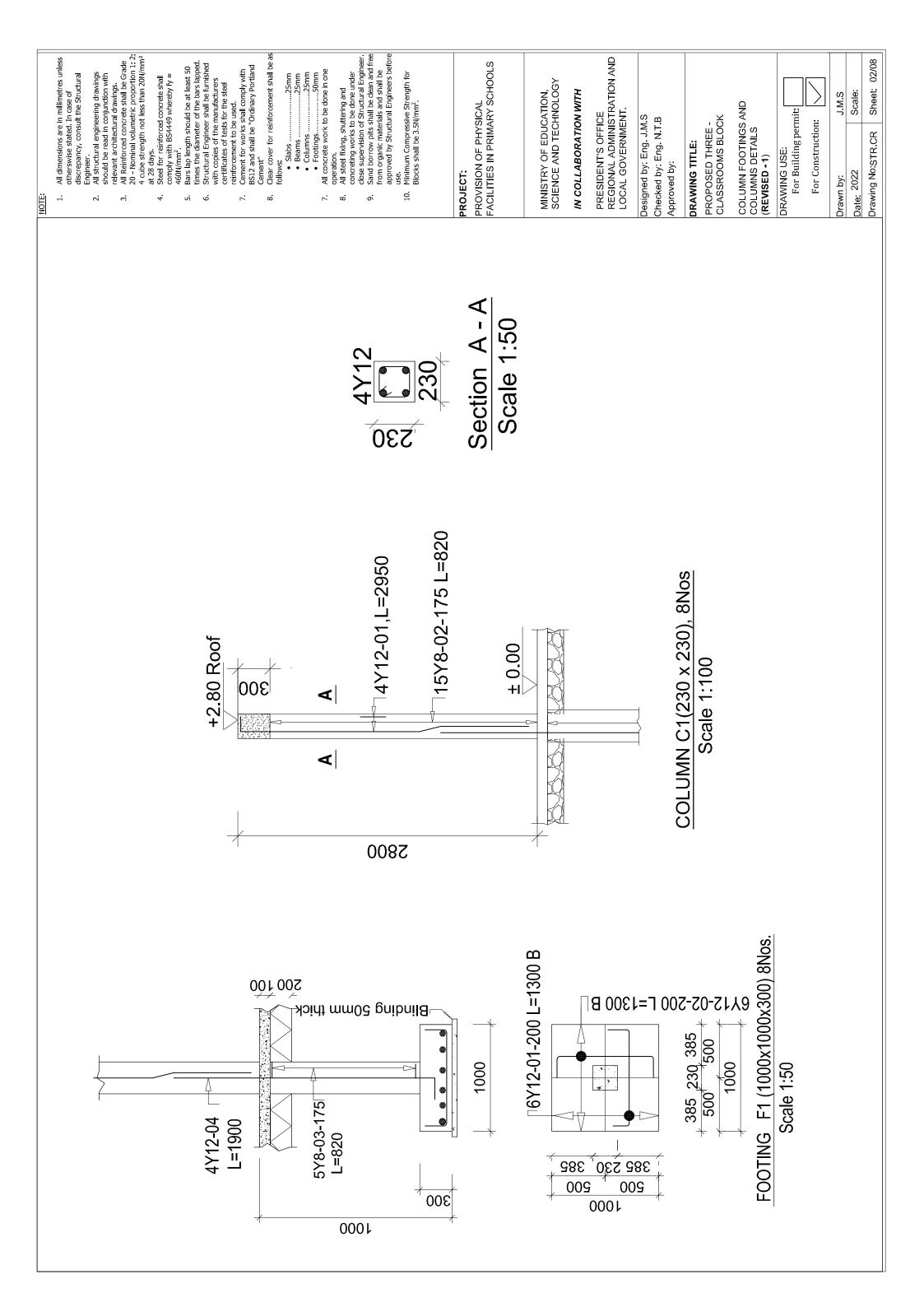
Date	December 2022
Drawn by	IAS
Checked by	JR
Scale	To fit

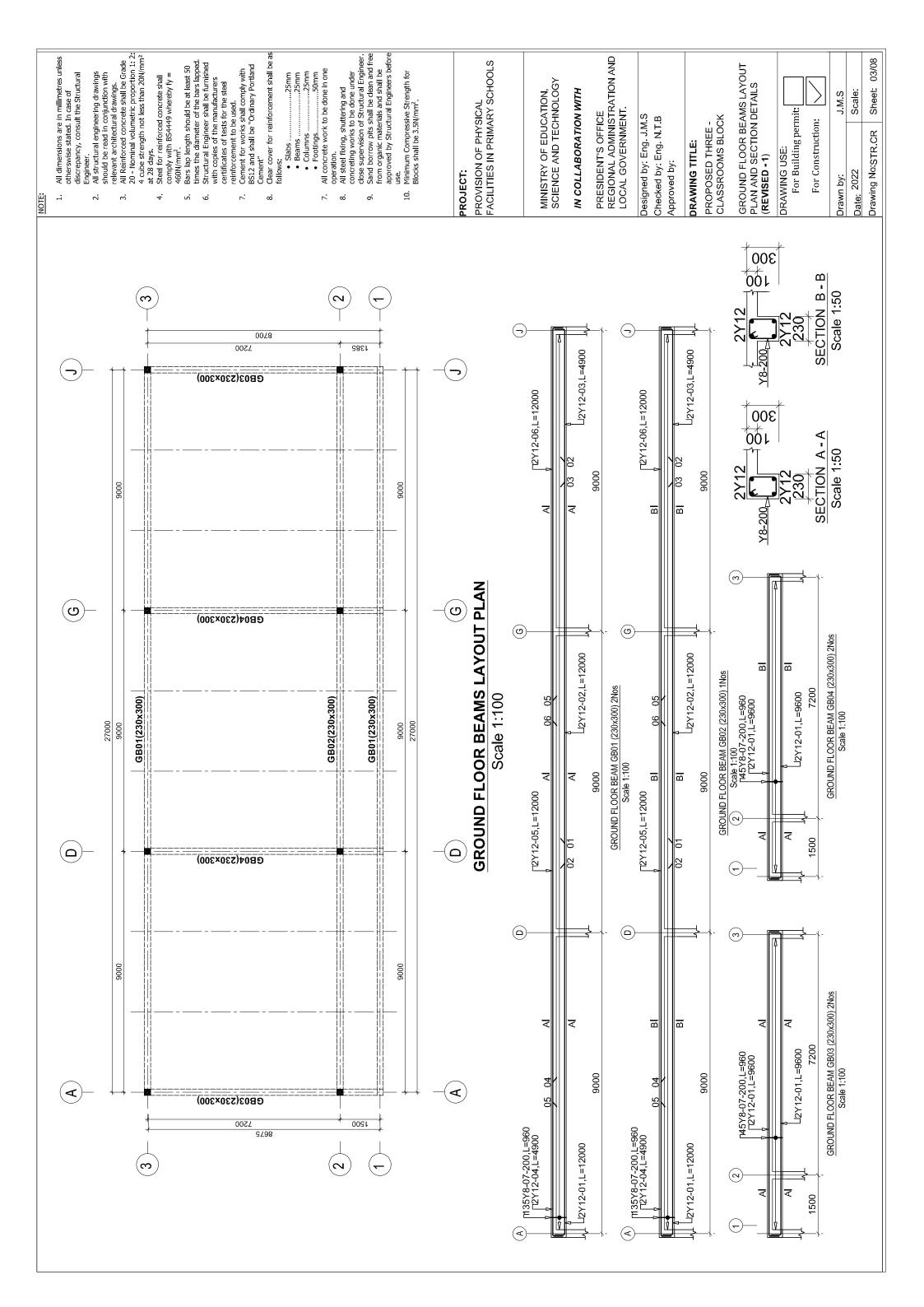
STRUCTURAL DRAWINGS

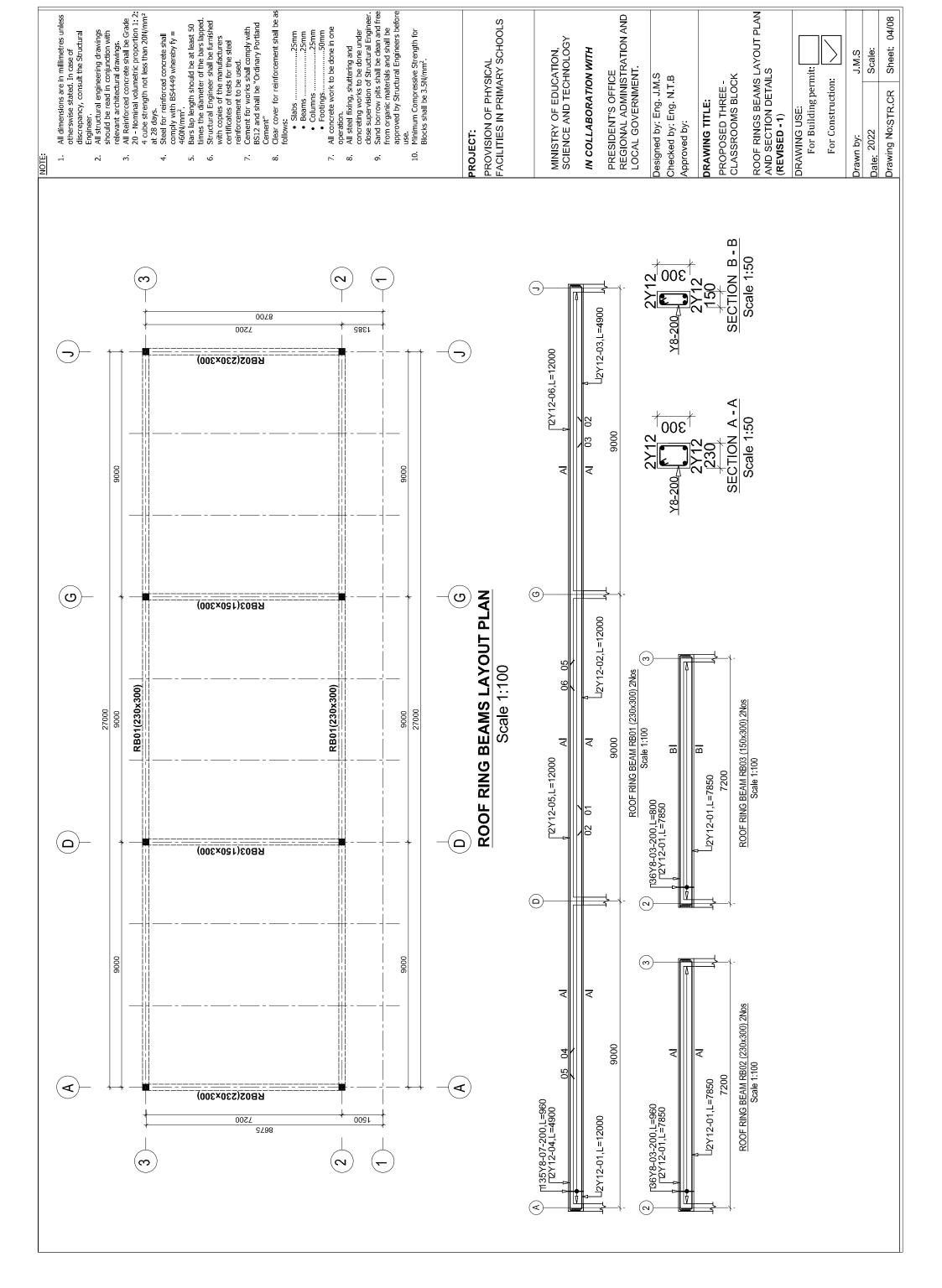
FOR

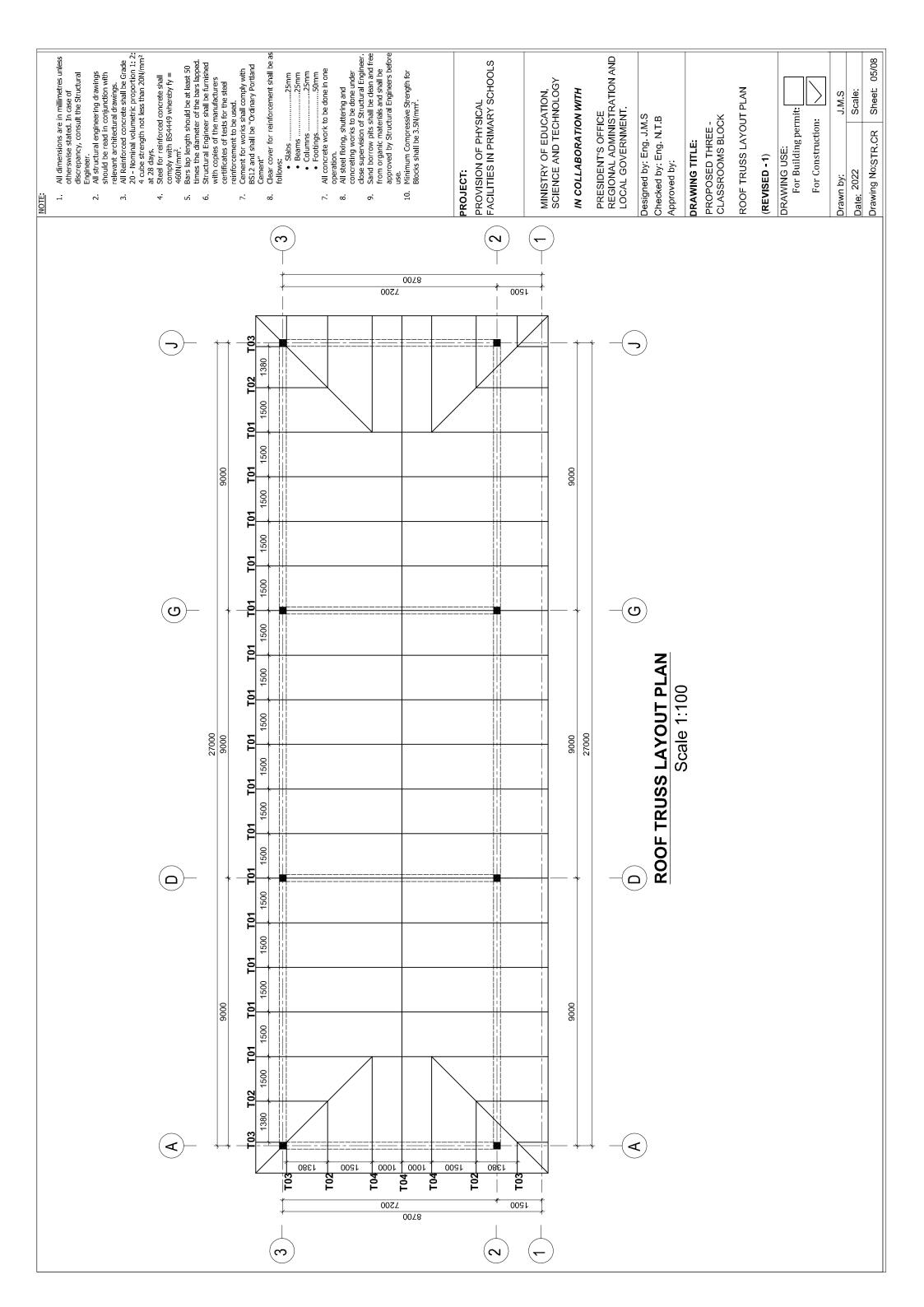
REE CLASSROOM BLOCK TYPE B - 3 ROOMS - HIPPED **AREA PRONE TO EARTHQUAKE**

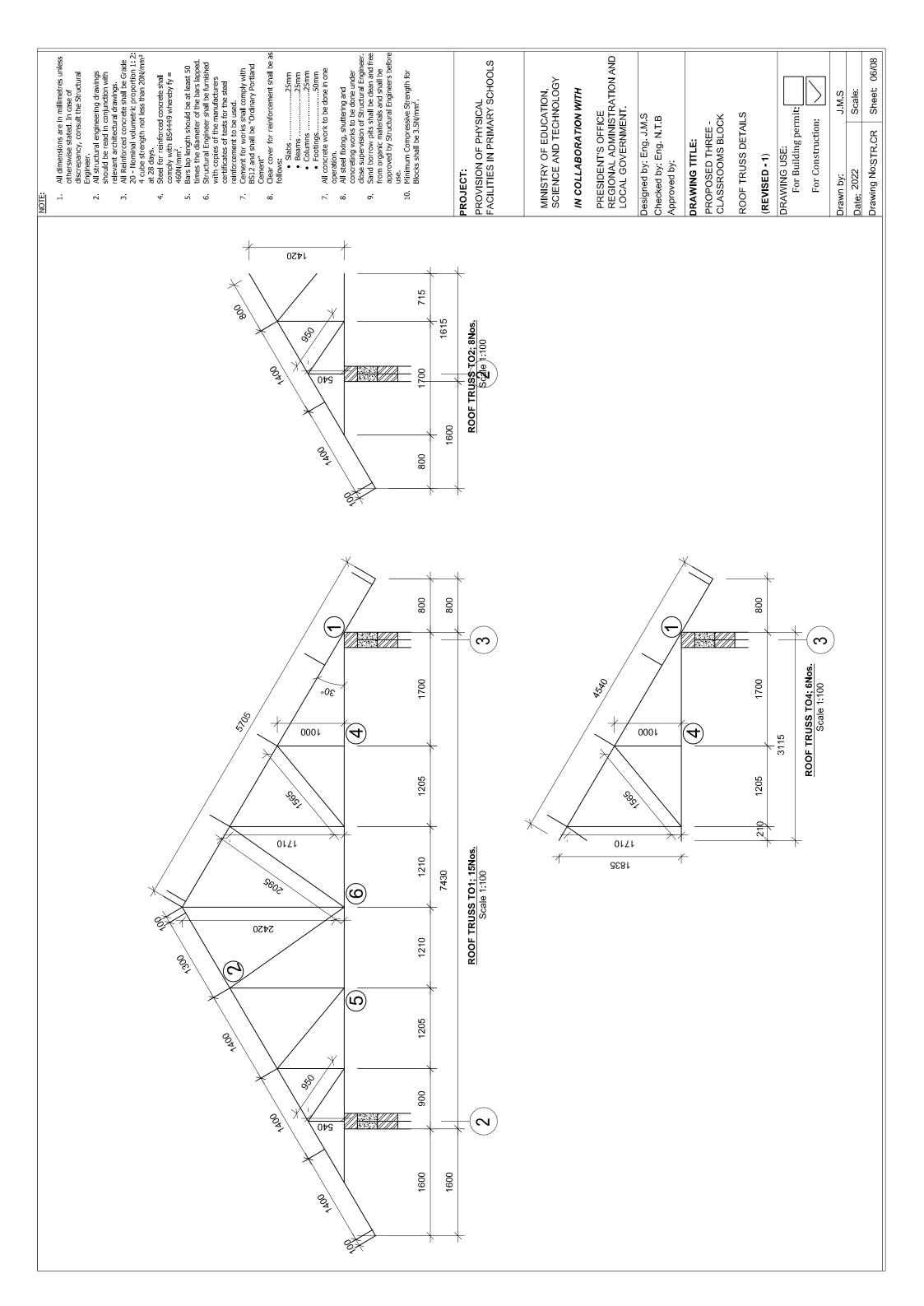


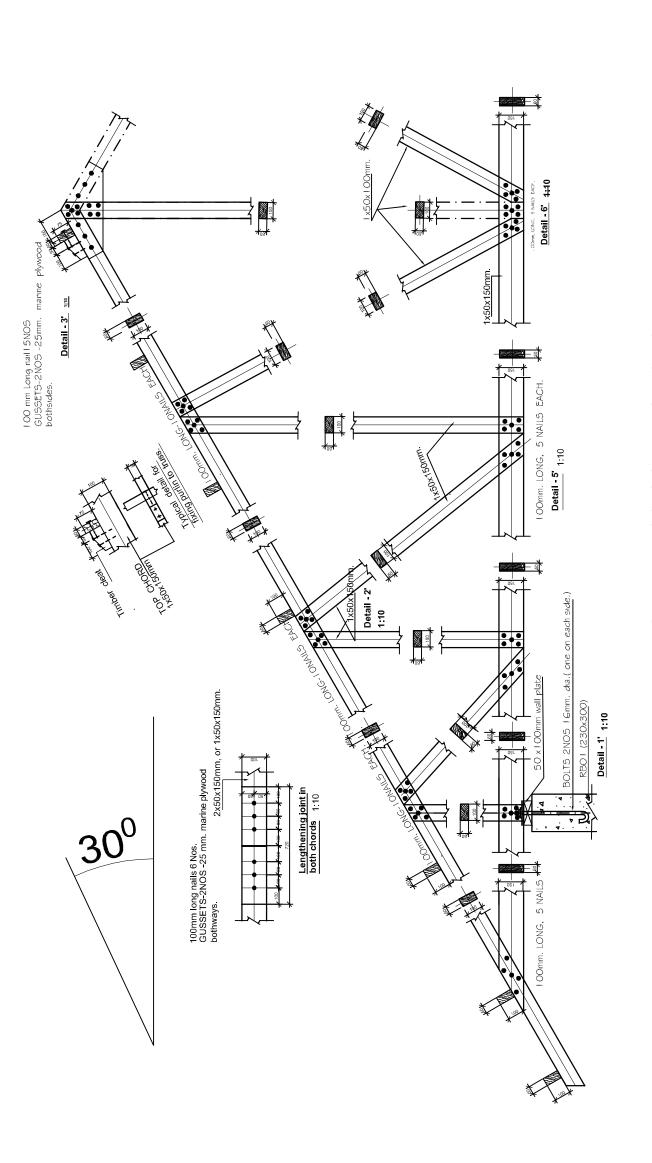












TYPICAL TRUSS CONNECTIONS DETAIL

All dimensions are in millimetres unless otherswise stated. In case of discrepancy, consult the Structural

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. 2

Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement" Gear cover for reinforcement shall be as

7 8

use. Minimum Compressive Strength for Blocks shall be 3.5N/mm². 10

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:

PROPOSED THREE -CLASSROOMS BLOCK

ROOF TRUSS CONNECTION DETAILS (REVISED -1)

DRAWING USE: For Building permit:

For Construction:

O IM O	Scale:	STR.CR Sheet: 07/08
DIAMII DY	Date: 2022	Drawing No.STR.CR

				Bar Bending Schedule	Schedule	d)			
Page 1/2		PROVISION	N OF PHYSICAL FA	CILITIES FOR PRIN	AARY SCHOOLS LUMN AND GRC	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PROPOSED THREE CLASSROOMS BLOCK (COLUMN FOOTINGS, COLUMN AND GROUND FLOOR BEAMS)	ASSROOMS BLOCK		Page
MEMBERTYPE	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	MEMBERTY
COLUMN	- ∞	10	Y12	1300	48	62.4	10021		ROOF BEA
COLUMN FOOTING	œ	02	Y12	1300	48	62.4	+ 10021		ROOF BEA
COLUMN STARTER	œ	03	٧8	820	40	32.8	180 L		ROOF BEA
COLUMN STARTER	ω	04	Y12	1900	32	60.8	10051		ROOF BEA
COLUMN	ω	10	Y12	2950	32	94.4	1081		ROOF BEA
COLUMN	ω	02	Y8	820	120	98.4	50 50 180		ROOF BEA
GROUND BEAM 1	8	10	Y12	12000	4	48	11750		ROOF BEA
GROUND BEAM 1	2	02	Y12	12000	4	48	12000 +		ROOF BEA
GROUND BEAM 1	71	03	Y12	4900	4	19.6	10055		ROOF BEA
GROUND BEAM 1	Ø	04	Y12	4900	4	19.6	4650		ROOF BEA
GROUND BEAM 1	01	05	Y12	12000	4	48	12000 +		ROOF BEA
GROUND BEAM 1	0	90	Y12	12000	4	48	10921		
GROUND BEAM 1	8	20	Y8	096	270	259.2	180 50		
GROUND BEAM 2	-	10	Y12	12000	2	24	1750		
GROUND BEAM 2	·-	02	Y12	12000	Ø	24	12000 +		
GROUND BEAM 2		03	Y12	4900	2	8.6	+6550 +0551		
GROUND BEAM 2	·-	04	Y12	4900	Ø	8.6	4650		
GROUND BEAM 2	-	90	۲۱2	12000	2	24	1 00021		
GROUND BEAM2	-	90	Y12	12000	23	24	+ 1092l		
GROUND BEAM2		20	Y8	096	135	129.6	180 to 18		
GROUND BEAM3	2	10	Y12	9350	82	74.8	10380		
GROUND BEAM3	7	02	γ8	096	986	82.56	1 20 P		
GROUND BEAM 4	2	10	Y12	0326	8	74.8	1 0921		
GROUND BEAM 4	0	02	٧8	096	98	82.56	1082 1 6 08 1		

		NOTES																		
	ASSROOMS BLOCK	SKETCH OF BAR DIMENSIONS IN (mm)	11750	12000	4650	+050 +050	12000	11750	20 S S S S S S S S S S S S S S S S S S S	9350 9350	50 50 180 180 180 180 180 180 180 180 180 18	7350	50 50 100 100 100 100 100 100 100 100 10							
0	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PROPOSED THREE CLASSROOMS BLOCK (ROOF RING BEAMS)	TOTAL LENGTH (m)	48	48	19.6	19.6	48	48	259.2	62.8	69.12	62.8	57.6							
3 Schedule	AARY SCHOOLS FRING BEAMS)	NO.OF BARS	4	4	4	4	4	4	270	80	72	ω	72							
Bar Bending Schedule	CILITIES FOR PRIN	LENGTHOF EACH BAR (mm)	12000	12000	4900	4900	12000	12000	096	7850	096	7850	800							
	OF PHYSICAL FA	BAR TYPE AND SIZE (mm)	Y12	Y12	Y12	Y12	Y12	Y12	٧8	Y12	٧8	Y12	γ8							
	PROVISION	MARK No.	10	05	60	04	05	90	20	10	02	10	02							
		NUMBER OF MEMBER	8	a	Ø	8	2	8	8	2	2	2	8							
	Page 2/2	MEMBER TYPE	ROOF BEAM 1	ROOF BEAM 1	ROOF BEAM 1	ROOF BEAM 1	ROOF BEAM 1	ROOF BEAM 1	ROOF BEAM 1	ROOF BEAM 2	ROOF BEAM 2	ROOF BEAM 3	ROOF BEAM3							

NOTE

- All dimensions are in millimetres unless otherswise 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 BS449 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".
 - 4
- 2 9
- 7
- <u>۷</u> 8
- 9.
 - use. Minimum Compressive Strength for Blocks shall be 3.5N/mm². 10

PROJECT:

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.

IN COLLABORATION WITH

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

DRAWING TITLE:

PROPOSED THREE - CLASSROOMS
BLOCK
COLUMN FOOTINGS, COLUMNS,
GROUND FLOOR BEAMS AND
ROOF RING BEAMS BAR BENDING
SCHEDULES (REVISED - 1)

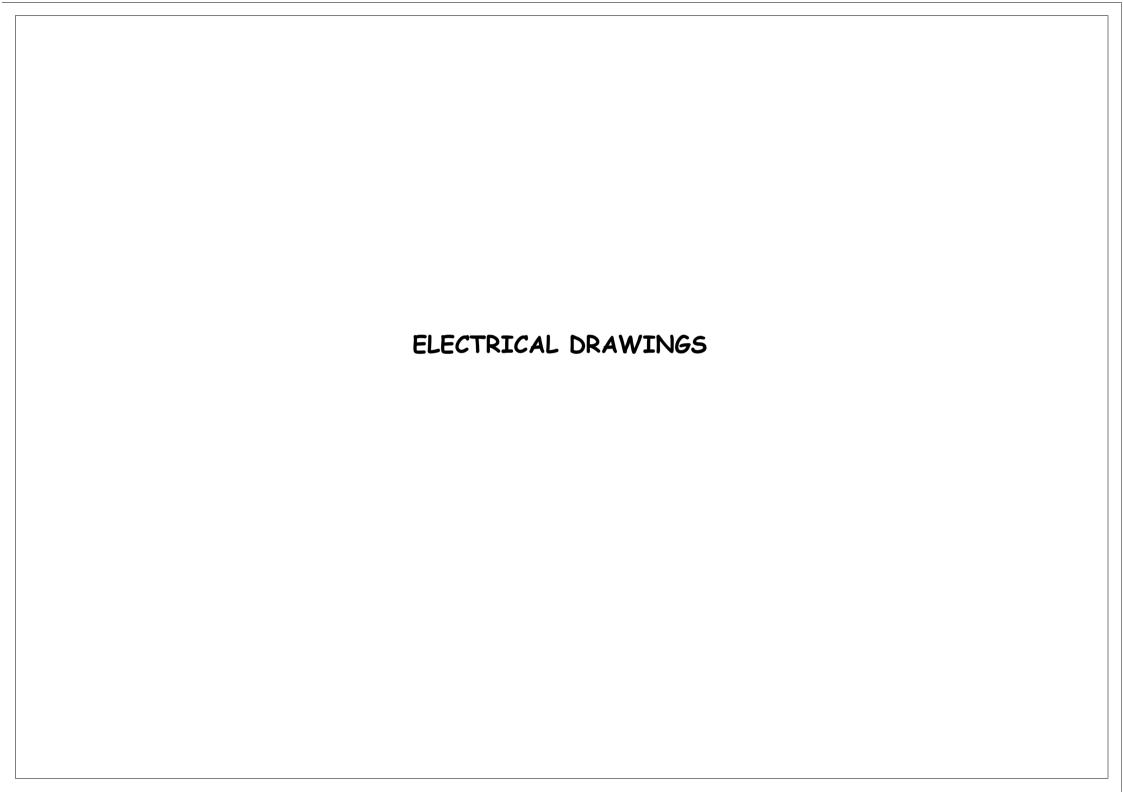
•			
•	DRAWING USE:	For Building permit	

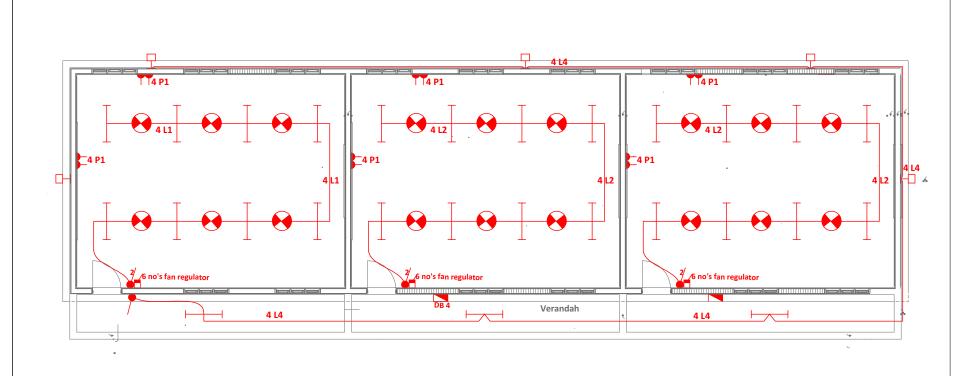
VING USE	For Building permit	For Construction:

Drawn by:	JMS
Date: 2022	Scale:
Drawing No:STR.CR	Sheet: 08/08

				Bar Bendin	g Schedul	e		
Page 1/2		PROVISION				S - PROPOSED THREE DUND FLOOR BEAMS)	CLASSROOMS BLOCK	
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
COLUMN FOOTING	8	01	Y12	1300	48	62.4	900	
COLUMN FOOTING	8	02	Y12	1300	48	62.4	900	
COLUMN STARTER	8	03	Y8	820	40	32.8	50 50 8 180	
COLUMN STARTER	8	04	Y12	1900	32	60.8	1600	
COLUMN	8	01	Y12	2950	32	94.4	2770	
COLUMN	8	02	Y8	820	120	98.4	50 50 2 180	
GROUND BEAM 1	2	01	Y12	12000	4	48	11750	
GROUND BEAM 1	2	02	Y12	12000	4	48	12000	
GROUND BEAM 1	2	03	Y12	4900	4	19.6	4650 100 100 100 100	
GROUND BEAM 1	2	04	Y12	4900	4	19.6	4650	
GROUND BEAM 1	2	05	Y12	12000	4	48	12000	
GROUND BEAM 1	2	06	Y12	12000	4	48	11750	
GROUND BEAM 1	2	07	Y8	960	270	259.2	50 50 50 20 1180	
GROUND BEAM 2	1	01	Y12	12000	2	24	11750	
GROUND BEAM 2	1	02	Y12	12000	2	24	12000	
GROUND BEAM 2	1	03	Y12	4900	2	9.8	4650	
GROUND BEAM 2	1	04	Y12	4900	2	9.8	4650	
GROUND BEAM 2	1	05	Y12	12000	2	24	12000	
GROUND BEAM 2	1	06	Y12	12000	2	24	11750	
GROUND BEAM 2	1	07	Y8	960	135	129.6	50 50 50 00 180	
GROUND BEAM 3	2	01	Y12	9350	8	74.8	8850	
GROUND BEAM 3	2	02	Y8	960	86	82.56	50 50 50 20 1180	
GROUND BEAM 4	2	01	Y12	9350	8	74.8	8850	
GROUND BEAM 4	2	02	Y8	960	86	82.56	50 50 00 180	

Boss 0/0				Bar Bendin	g Schedul	e 		
Page 2/2		PROVISION	N OF PHYSICAL F		MARY SCHOOLS		E CLASSROOMS BLOCK	
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
ROOF BEAM 1	2	01	Y12	12000	4	48	11750	+
ROOF BEAM 1	2	02	Y12	12000	4	48	12000	+
ROOF BEAM 1	2	03	Y12	4900	4	19.6	4650	1250 + 1
ROOF BEAM 1	2	04	Y12	4900	4	19.6	4650	
ROOF BEAM 1	2	05	Y12	12000	4	48	12000	+
ROOF BEAM 1	2	06	Y12	12000	4	48	11750	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
ROOF BEAM 1	2	07	Y8	960	270	259.2	50 50 92 180	
ROOF BEAM 2	2	01	Y12	7850	8	62.8	7350	1 1 250
ROOF BEAM 2	2	02	Y8	960	72	69.12	50 50 00 180	
ROOF BEAM 3	2	01	Y12	7850	8	62.8	7350	1 250
ROOF BEAM 3	2	02	Y8	800	72	57.6	50 50 00 100	
							1100	



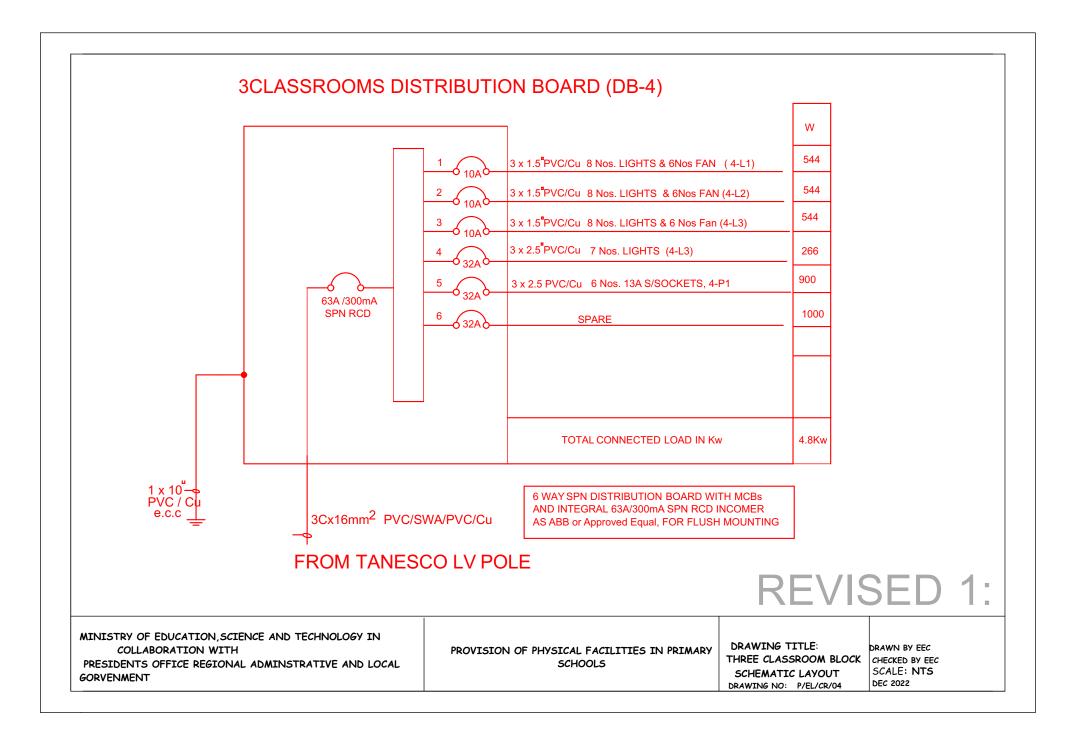


REVISED 1:

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

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE: ThreeClassroom block FLOOR LIGHTING & POWER LAYOUT DRAWING NO:P/EL/CR/04 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
Н	Bulkhead light Fitting	Wall Mounted
	4FT Single Electronic Start Fluorecent Light	On Ceilling
S	Ceilling Fan	On Ceilling
	Fan Regulator	1500 mm AFFL
\	1 gang 1way Switch	1500 mm AFFL
4	1 gang 2way Switch	1500 mm AFFL
42	2 gang 2way Switch	1500 mm AFFL
3	3 gang 1way Switch	
2	2 gang 1way Switch	1500 mm AFFL
4	4 gang 1way Switch	1500 mm AFFL
11	Twin Switch Socket	450 mm AFFL
©	Ceilling light complete with energy saver 11w	on level

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY IN
COLLABORATION WITH
PRESIDENTS OFFICE REGIONAL ADMINSTRATIVE AND LOCAL
GORVENMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE:
THREE CLASSROOM BLOCK
LEGEND
DRAWING NO: P/EL/CR/04

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022