

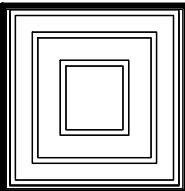
STRUCTURAL DRAWINGS

PROJECT: **PROPOSED DEVELOPMENT
RESIDENTIAL BUILDING**

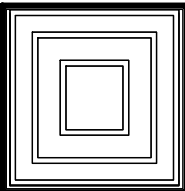
AT

**PLOT 8 ANGWA RIMI GRA
KADUNA, KADUNA STATE.**

CLIENT: **KOGI INVESTMENT PROPERTIES LTD**

	NOTE THE DIMENSIONS ARE TO BE READ AND NOT SCALED. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.	CLIENT: <div>KOGI INVESTMENT PROPERTIES LTD</div> PROJECT: <div>PROPOSED RESIDENTIAL DEVELOPMENT ON PLOT 8, ANGWA RIMI GRA, KADUNA, KADUNA STATE.</div>	SHEET NO. S00		DESIGNED: OLUWAFEMI
			DRG. TITLE COVER PAGE		CHECKED: ENGR .P. JAYEOLA
			SCALE : NTS	DATE : APRIL, 2023	DRAWN : MOHAMMED

GENERAL NOTE	CONCRETE	STRUCTURAL STEEL WORK	BLOCKWORK
<div>1. WORK TO FIGURED DIMENSIONS ONLY.</div> <div>2. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTS DRGS, OTHER STRUCTURAL DRGS AND SPECIALISTS DRGS. WHERE HOLES, FIXING ETC. ARE REQUIRED, BARS MAY BE DISPLACED SLIGHTLY TO ACCOMODATE THESE BUT THEY MUST NOT BE CUT OR REMOVED.</div> <div>3. REMOVE ALL TOPSOIL UNDER SLABS. PROVIDE 150mm WELL RAMMED AND CONSOLIDATED NATURALLY OCCURING HARDCORE MATERIAL OR ROCK LATERITE UNDER ALL GROUND BEARING SLABS WELL CONSOLIDATTED SELECTED FILL OR MASS CONCRETE TO BE USED TO MAKE UP LEVELS WHERE NECESSARY AS AGREED WITH THE ENGINEER. FOR FILL, LAYERS NOT TO EXCEED 225mm</div> <div>4. WHERE BAD GROUND IS ENCOUNTERED BELOW FOUNDATION LEVEL, THE DIFFERENCE IN LEVEL BETWEEN APPROVED BEARING STRATUM AND ORIGINAL LEVEL IS TO BE MADE UP USING MASS CONCRETE.</div> <div>5. ALL DIMENSIONS ARE TO BE CHECKED ON SITE</div> <div>6. EXTERNAL WALL FOOTING TO BE 1 METRE MINIMUM DEPTH BELOW EXISTING GROUND LEVEL OR FINAL GROUND LEVEL WHICHEVER IS LOWER.</div> <div>7. WHERE SELECTED FILL IS USED FOR MAKING UP LEVELS TO FORM A PILING PLATFORM, THE MAXIMUM SIZE OF AGGREGATE IS NOT TO EXCEED 75mm.</div> <div>8. ALL DIMENSIONS ARE IN METRES AND MILLIMETRES UNLESS NOTED OTHERWISE.</div>	<div>1. (a) CONCRETE TO BE GRADE 35N/mm² IN FOUNDATIONS. (b) CONCRETE TO BE GRADE 25N/mm² IN SUPER-STRUCTURE.</div> <div>2. (a) R= DENOTES MILD STEEL REINFORCEMENT ACCORDING TO BS 4449 AND IN MILLIMETRE SIZE. (b) Y=DENOTES HIGH YEILD, HIGH BOND ROUND REINFORCEMENT TO BS 4449 AND 4466 (C) T=TOP, TT=TOP TOP, TB= TOP BOTTOM (d) B=BOTTOM , BT=BOTTOM TOP BB= BOTTOM BOTTOM (e) AS= ALTERNATELY STAGGERED (f) AP= ALTERNATELY PLACED (g) NF= NEAR FACE (h) FF= FAR FACE (i) EF= EACH FACE</div> <div>3. ALL BLINDING CONCRETE MIX TO BE 1: 3 : 6 (CEMENT- SAND- COARSE AGGREGATE) REINFORCED AND MASS CONCRETE MIX TO BE 1: 11/2 : 3 (CEMENT- SAND- COARSE AGGREGATE)</div> <div>4. IN WATER-TIGHT CONSTRUCTION, JOINTS IN CONCRETE WORK ARE TO HAVE APPROVED WATER BAR AND CONTRACTOR IS TO TAKE SPECIAL CARE WITH THE CONCRETE SO AS TO PRODUCE A WATERTIGHT CONSTRUCTION. AN ADMIXTURE OF A PROPRIETARY BRAND MAY BE USED IF AGREED BY THE ENGINEER. IF AN ADMIXTURE IS USED, CARE SHOULD BE TAKEN THAT IT IS PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.</div> <div>5. ALL CONSTRUCTION JOINT POSITIONS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING BUT THESE SHOULD NOT BE SPACED MORE THAN 10.0 m APART.</div> <div>6. MAXIMUM SIZE OF AGGREGATE TO BE 20mm UNLESS OTHERWISE SPECIFIED. COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:- (a) FOUNDATION - 40mm (b) COLUMNS - 40mm (c) SLABS - 20mm (d) BEAMS - 25mm (e) STAIRS - 20mm</div>	<div>1. ALL STRUCTURAL STEELWORK SHALL BE MILD STEEL TO BS 4360 GRADE 43A EXCEPT HOLLOW SECTION WHICH SHALL COMPLY WITH GRADE 43c . (b) STEEL GRADE 410N/mm FOR REINFORCE CONCRETE DESIGN.</div> <div>2. WELDING FABRICATION AND ERECTION OF STRUCTURAL STEELWORK SHALL CONFORM TO BS 5950.</div> <div>3. UNLESS WHERE OTHERWISE NOTED, ALL BOLTS SHALL BE BLACK BOLTS TO BS 4190 AND WASHERS TO BS 4320 SHALL BE PROVIDED FOR ALL BOLTS.</div> <div>4. ALL WELDS ARE TO BE 6mm. FILLET WELDS CONTINUOUS UNLESS WHERE OTHERWISE INDICATED.</div> <div>5. UNLESS NOTED OTHERWISE, THE COMPOSITION OF THE PROTECTIVE SYSTEM SHALL BE:- (a) SURFACE TREATMENT - D (b) METAL COATING - NONE (c) PRE-TREATMENT - NONE (d) PRIMING PAINT - 1H (e) FINISHING PAINT - 2T AS CLASSIFIED IN TABLE 4 KEY TO TREATMENT CP 2008; 1966</div> <div>6. THE FIRST BAY OF ERECTED STEELWORK IS TO BE LINED AND LEVELED BY MEANS OF TEMPORARY BRACING, BEFORE FUTHER ERECTION SHALL CONTINUE.</div> <div>7. ANTI-SAG RODS ARE TO BE PROVIDED AS SHOWN ON DRGS. WHERE ANTI-SAG RODS ARE NOT SHOWN ON THE DRGS, THEY ARE TO BE PLACED AT MID-SPAN OF PURLINS OR TO PURLIN MANUFACTURERS SPECIFICATION</div> <div>8. ALL STEEL SURFACES IN CONTACT WITH ALUMINIUM SHEETING ARE TO BE GIVEN TWO COATS OF AN APPROVED BITUMASTIC PAINT BEFORE FIXING SHEETING.</div> <div>9. ALL BOLTS IN TENSION SHOULD BE PROVIDED WITH EITHER DOUBLE COILED SPRING WASHERS OR LOCK NUTS.</div>	<div>1. HOLLOW BLOCKWALLS BELOW GROUND SLAB LEVEL ARE TO BE FILLED WITH MASS CONCRETE. BACK FILLING IS TO BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES.</div> <div>2. THE WALL THICKNESS OF THE BLOCKS SHOULD NOT BE MORE THAN 25mm.</div> <div>3. THE MAXIMUM CRUSHING STRENGTH OF THE HOLLOW BLOCK IS TO BE 20N/mm²OF GROSS AREA OF BLOCK AT 28 DAYS.</div> <div>4. BLOCKWORK TIES BETWEEN BLOCKWORK WALL AND COLUMNS/STANTIONS ARE TO BE PROVIDED AT EVERY COURSE. TIES TO BE 6mm BAR STRAPS 700m LONG INTO THE BLOCKWORK.</div> <div>5. MAXIMUM POUR HEIGHT FOR ALL FILLED BLOCK BLOCKWORK TO BE 2 COURSES AT A TIME.</div> <div>6. ALL SERVICE PIPES SHALL ONLY BE PUT INSIDE BLOCKWALL AFTER DUE CONSULTATION WITH STRUCTURAL ENGINEERS. PUTTING SERVICE PIPES INSIDE LOAD BEARING BLOCKWORK CORNERS MUST BE AVOIDED.</div> <div>”THE ENGINEER WILL NOT BE LIABLE FOR JOB DONE AND NOT SUPERVISED BY HIM OR ANY OF HIS AGENTS”</div>



NOTE

THE DIMENSIONS ARE TO BE READ AND NOT SCALED.
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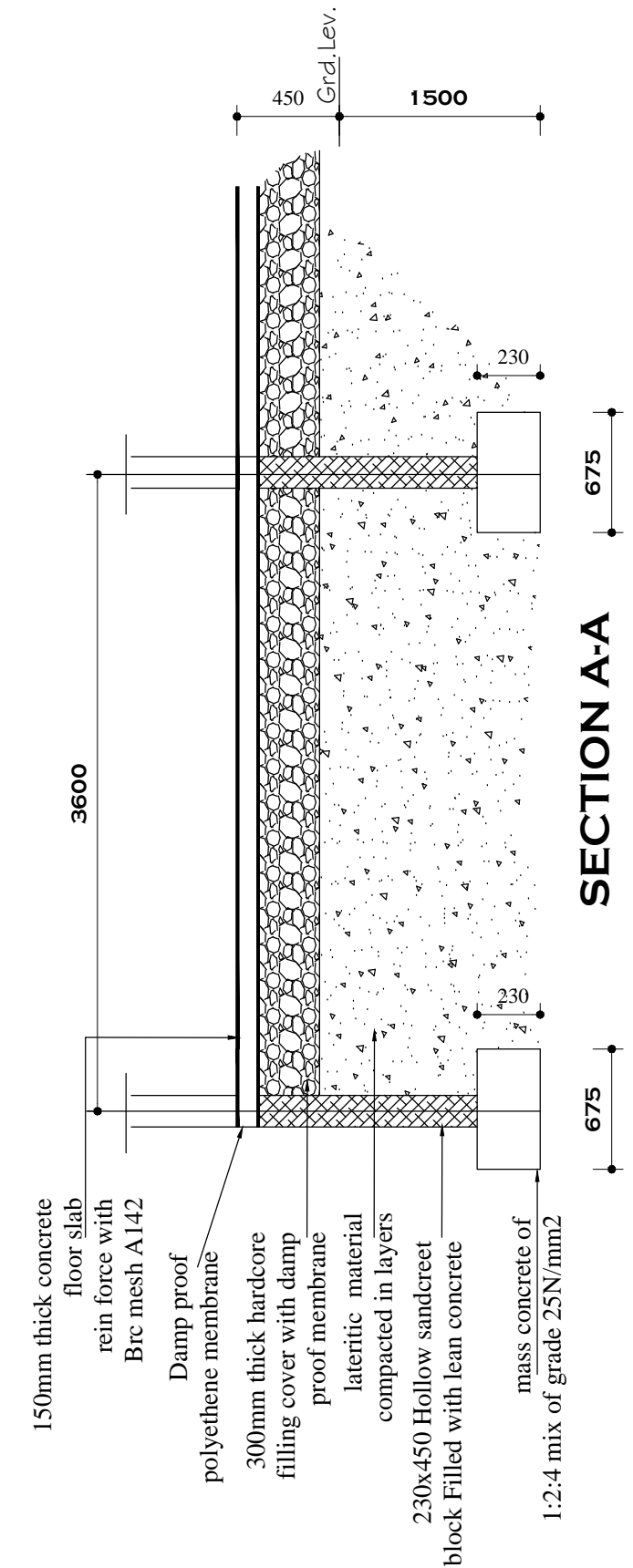
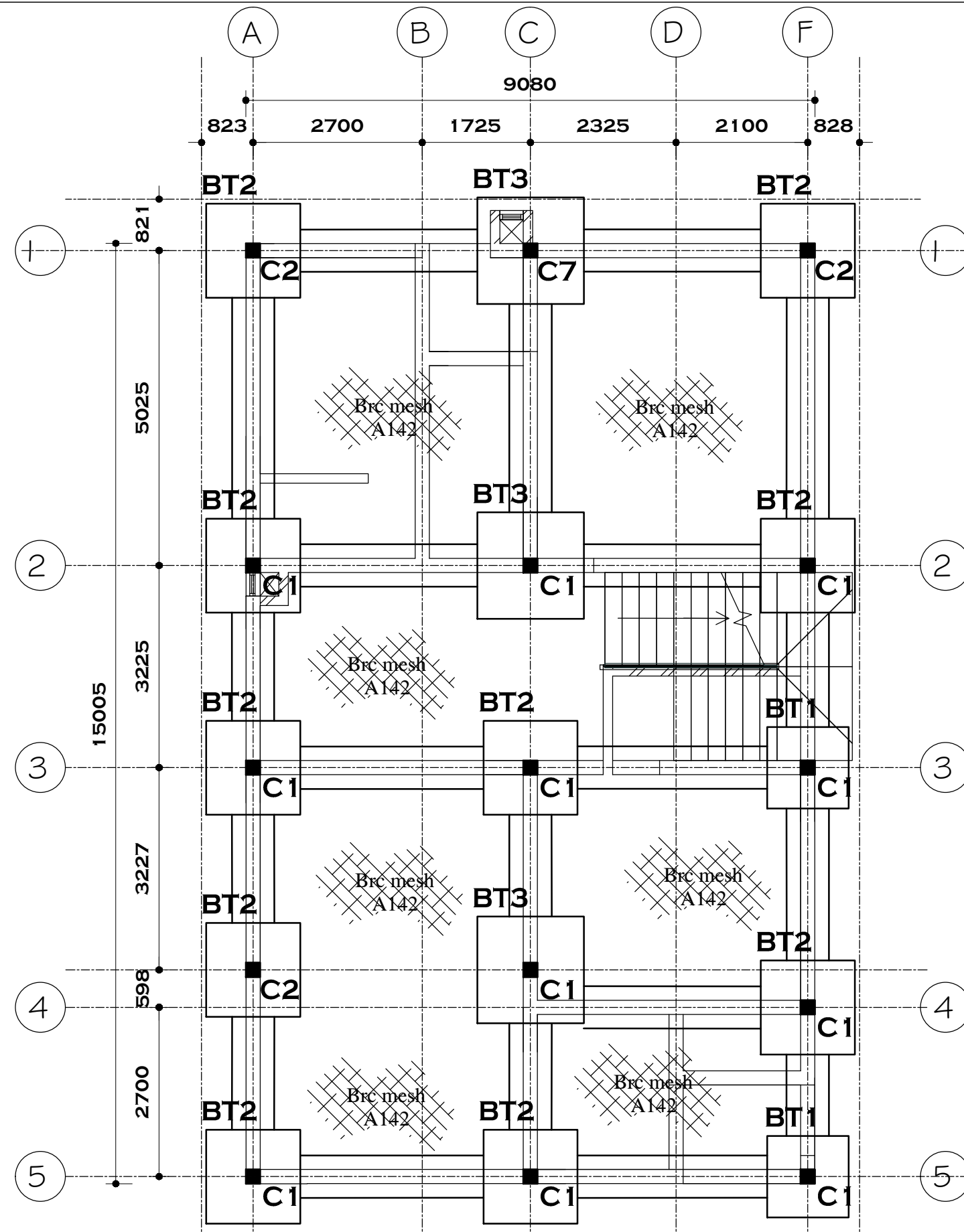
CLIENT:

KOGI INVESTMENT PROPERTIES LTD

PROJECT:

PROPOSED RESIDENTIAL DEVELOPMENT ON PLOT 8, ANGWA RIMI GRA, KADUNA, KADUNA STATE.

SHEET NO. S00		DESIGNED: OLUWAFEMI
DRG. TITLE GENERAL NOTE		CHECKED: ENGR .P. JAYEOLA
SCALE : NTS	DATE : APRIL, 2023	DRAWN : MOHAMMED



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SHEET NO.

S01

DESIGNED:

OLUWAFEMI

DRG. TITLE

FOUNDATION LAYOUT/SECTION A-A

CHECKED:

ENGR .P. JAYEOLA

SCALE :

NTS

DATE :

APRIL, 2023

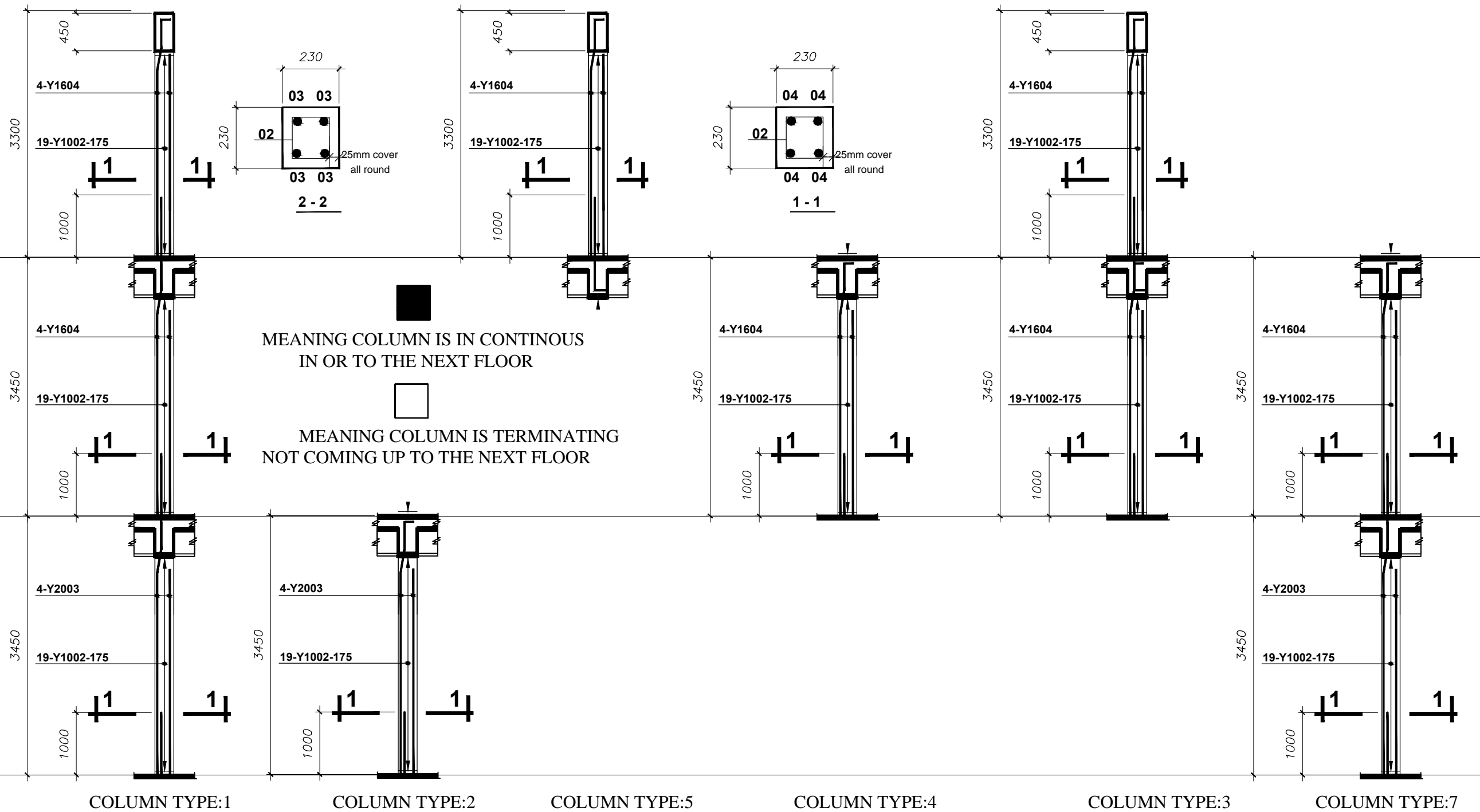
DRAWN :

MOHAMMED

PENT
FLOOR
COLUMN

FIRST
FLOOR
COLUMN

GROUND
FLOOR
COLUMN



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ANGWA RIMI GRA, KADUNA, KADUNA STATE.

SHEET NO.

S03

DESIGNED:

OLUWAFEMI

DRG. TITLE

COLUMNS DETAILS

CHECKED:

ENGR .P. JAYEOLA

SCALE :

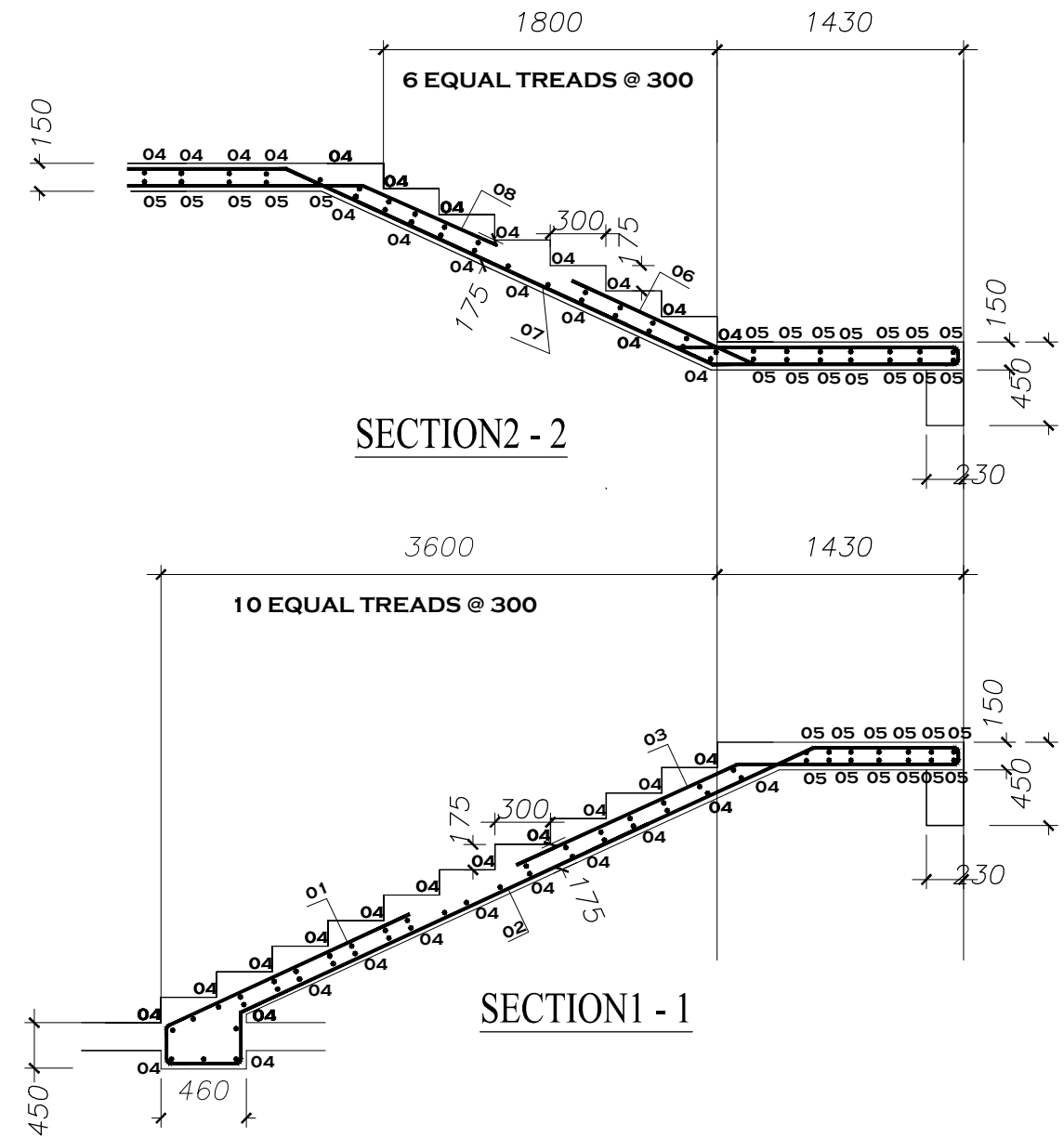
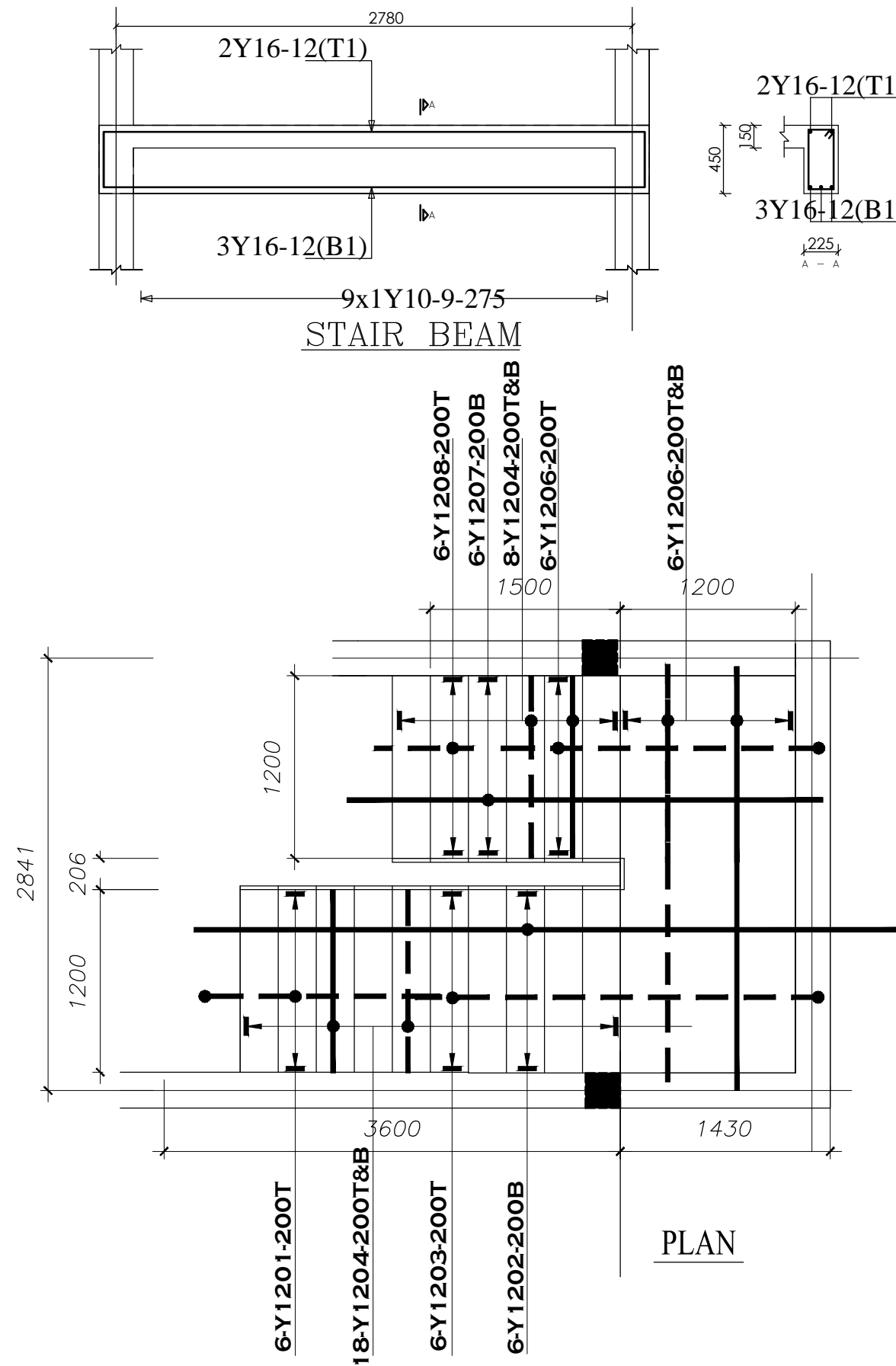
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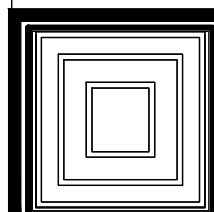
APRIL, 2023

DRAWN :

MOHAMMED



STAIRCASE DETAILS



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SHEET NO.

S04

DESIGNED:

OLUWAFEMI

DRG. TITLE

STAIRCASE DETAILS

CHECKED:

ENGR .P. JAYEOLA

SCALE :

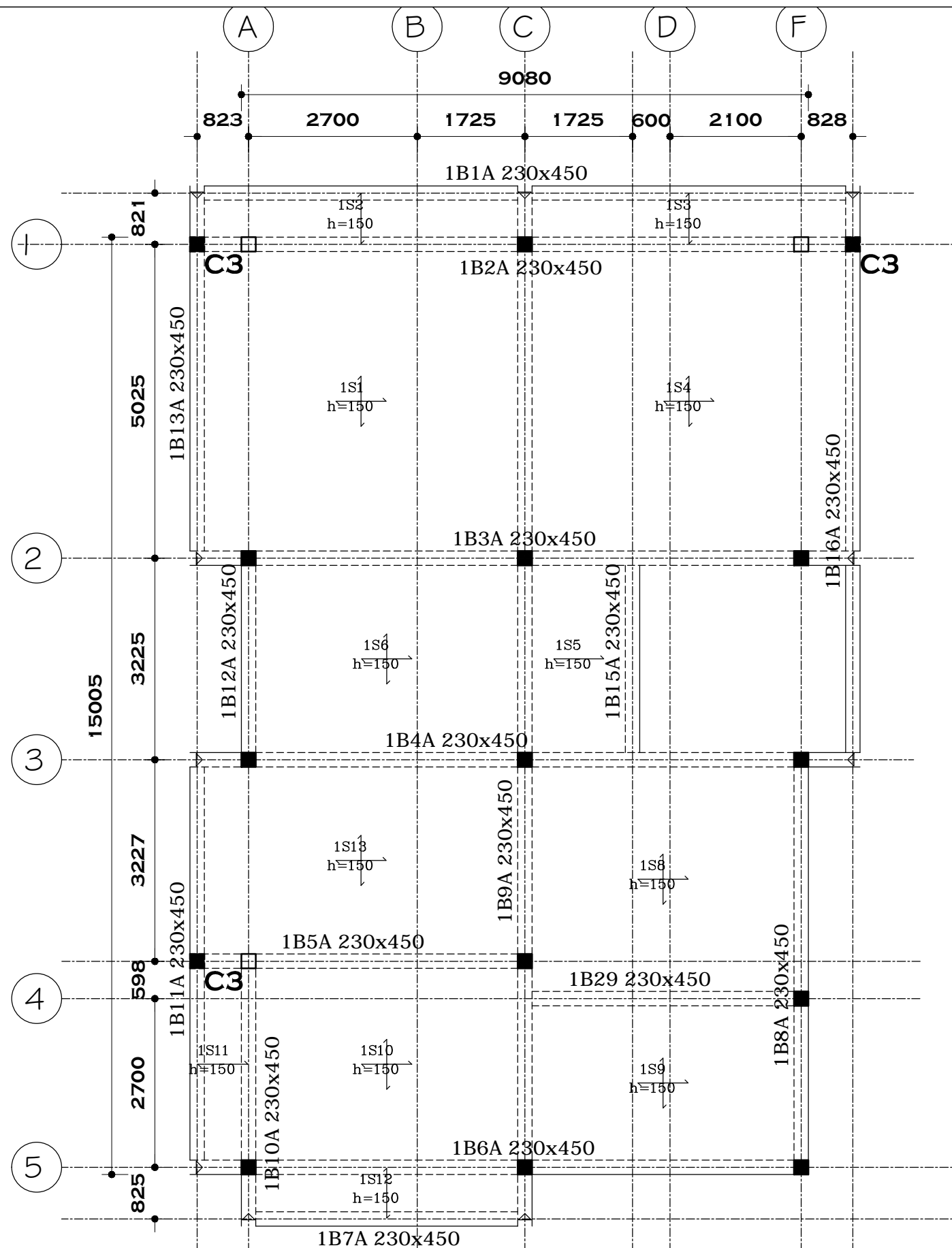
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DATE :

APRIL, 2023

DRAWN :

MOHAMMED



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ANGWA RIMI GRA, KADUNA, KADUNA STATE.

SHEET NO.

S05

DESIGNED:

OLUWAFEMI

DRG. TITLE

FIRST FLOOR BEAM AND SLAB LAYOUT

CHECKED:

ENGR .P. JAYEOLA

SCALE :

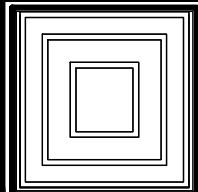
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DATE :

APRIL, 2023

DRAWN :

MOHAMMED

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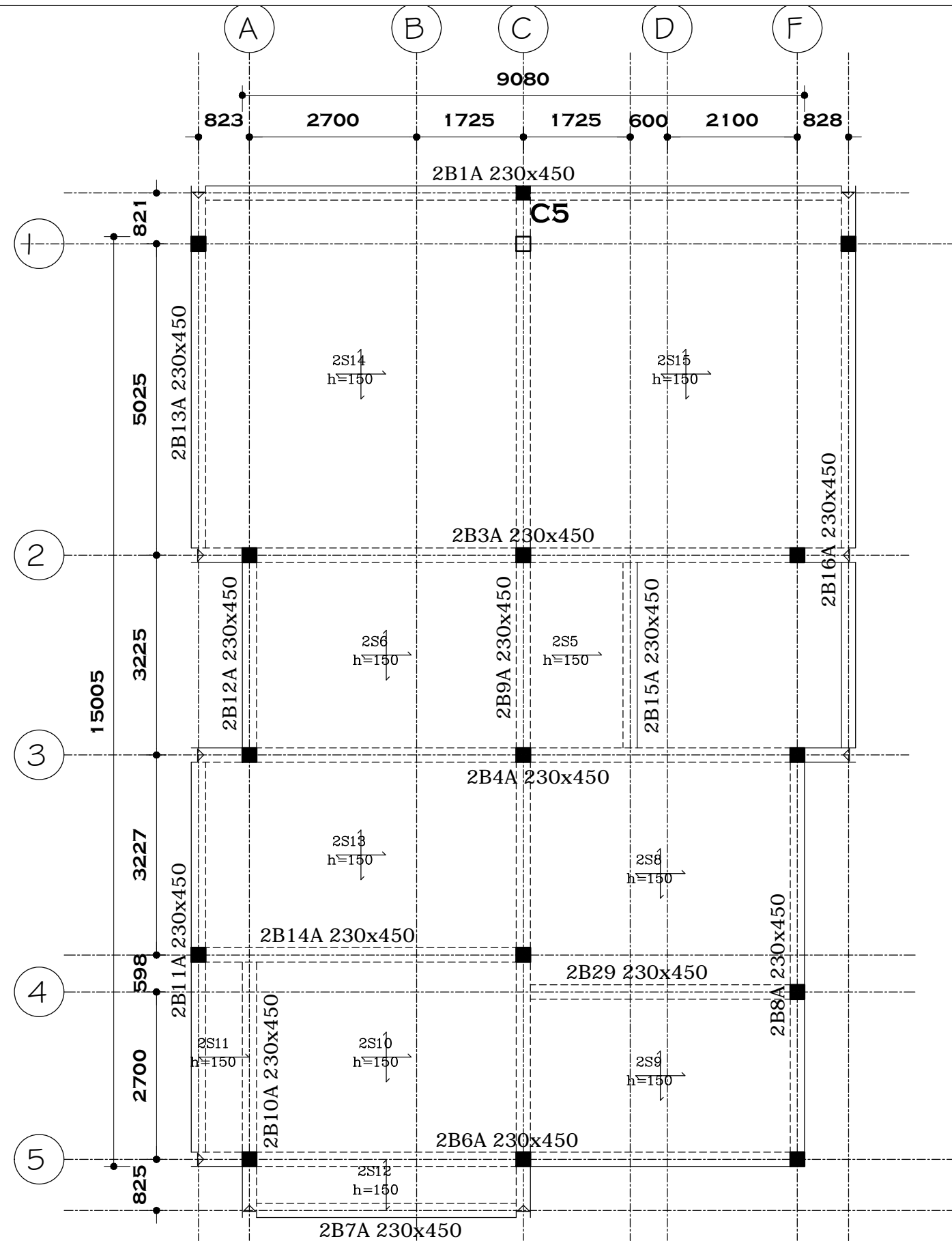
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**PROPOSED RESIDENTIAL DEVELOPMENT ON PLOT 8,
ANGWA RIMI GRA, KADUNA, KADUNA STATE.**

OLUWAFEMI

ENGR .P. JAYEOLA

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SHEET NO.

S08

DESIGNED:

OLUWAFEMI

DRG. TITLE

SECOND FLOOR BEAM & SLAB LAYOUT

CHECKED:

ENGR .P. JAYEOLA

SCALE :

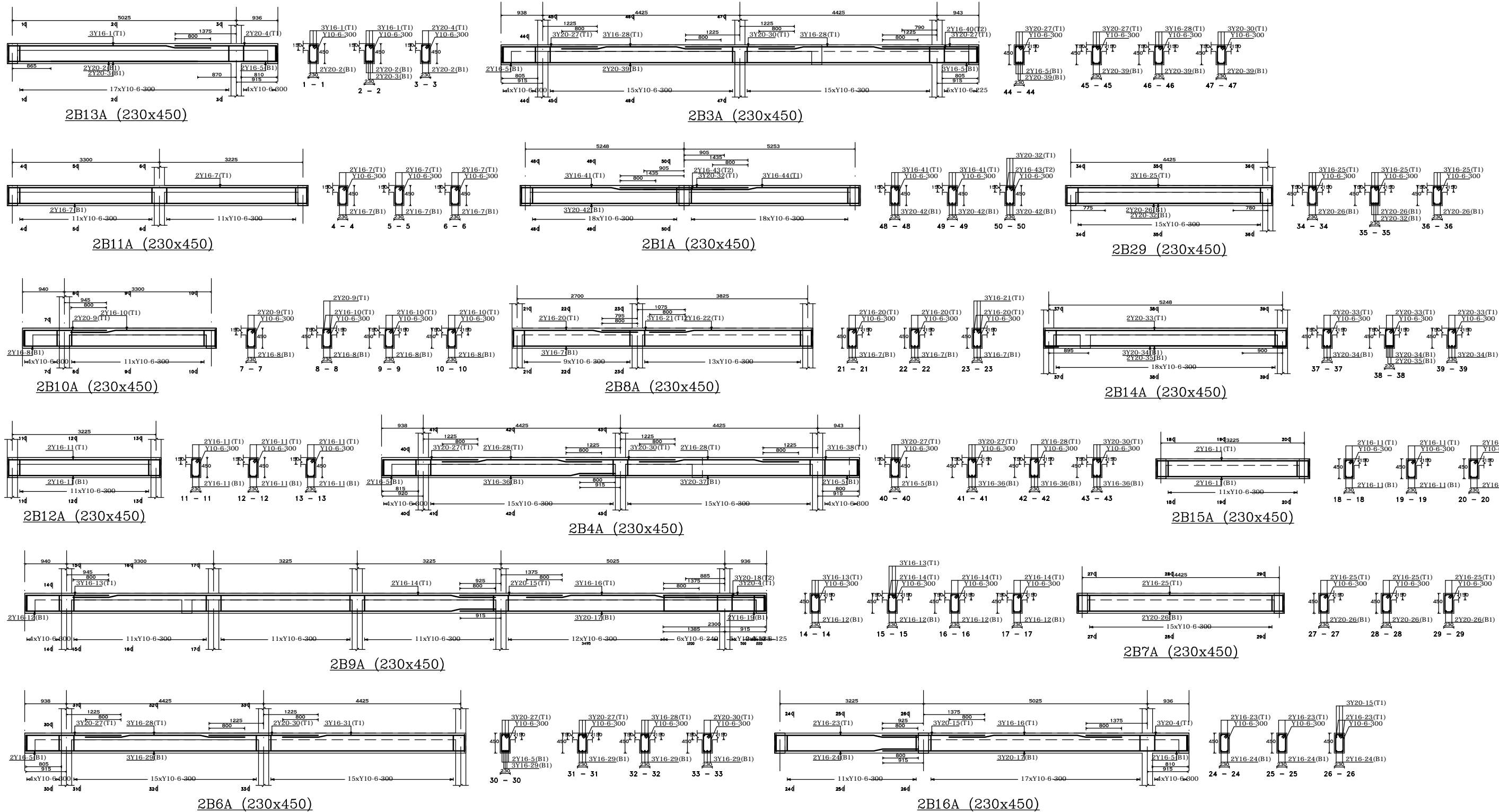
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DRAWN :

MOHAMMED



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SHEET NO.

S09

DESIGNED:

OLUWAFEMI

DRG. TITLE

SECOND FLOOR BEAM DETAILS

CHECKED:

ENGR .P. JAYEOLA

SCALE :

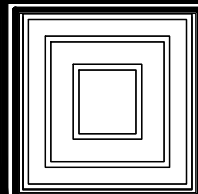
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DRAWN :

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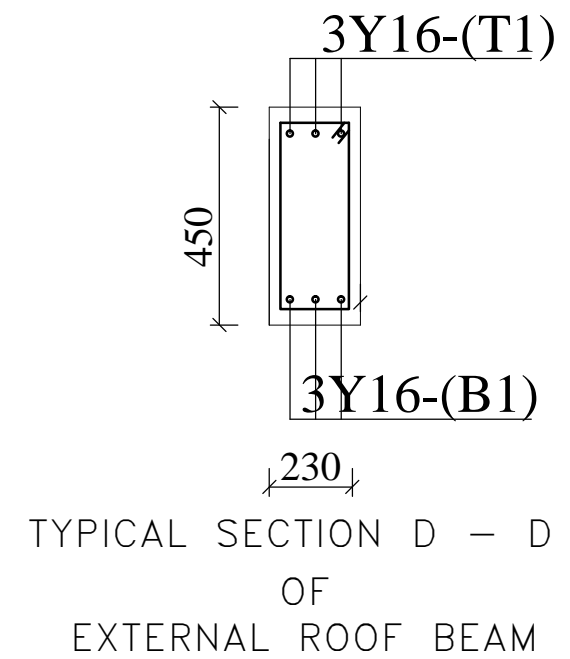
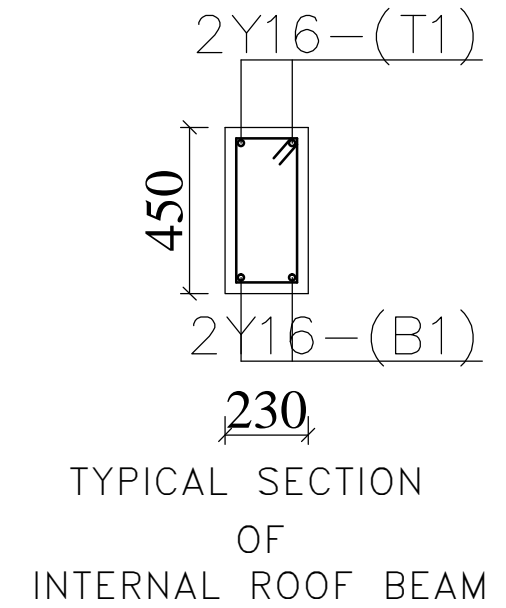
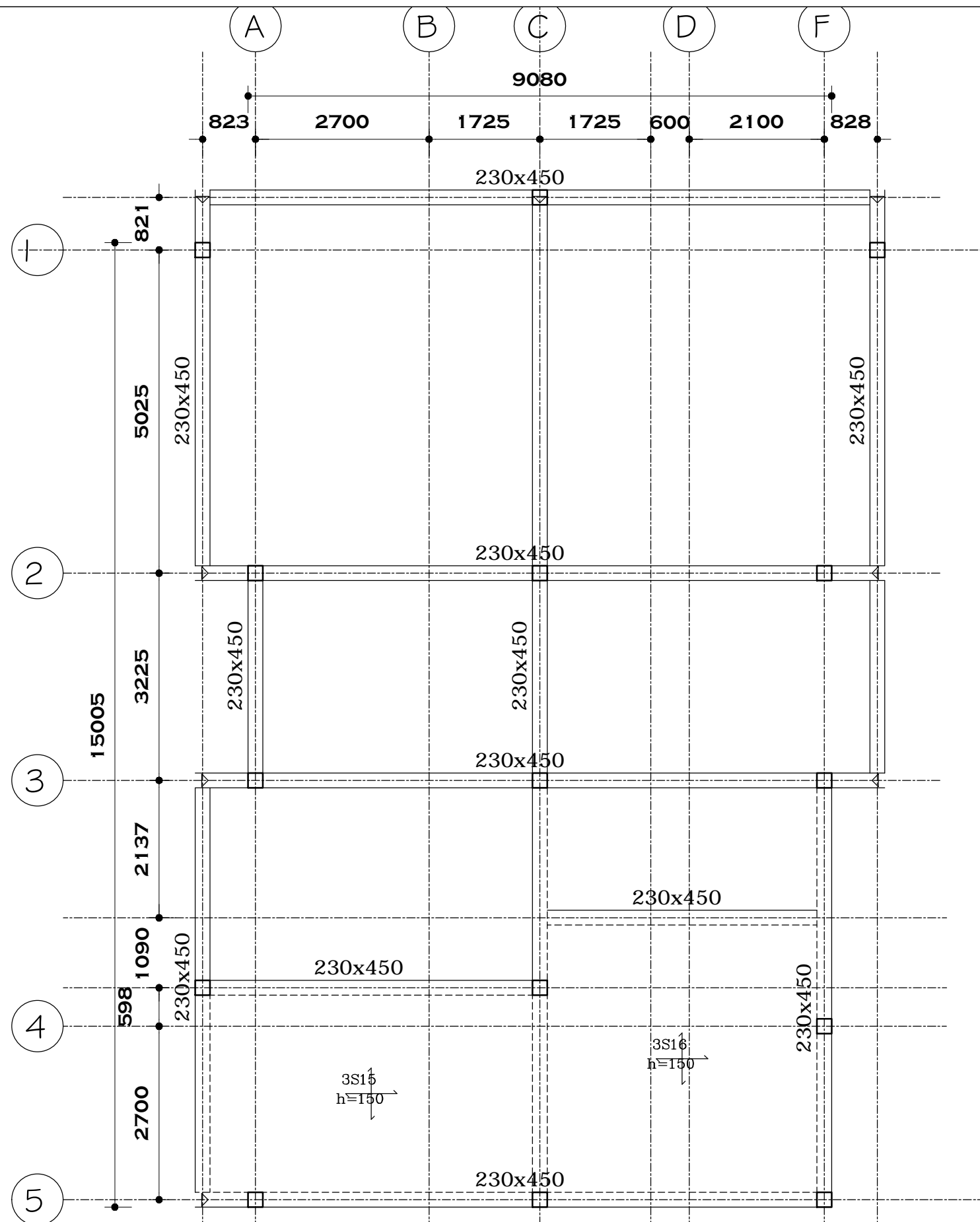
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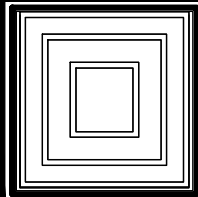
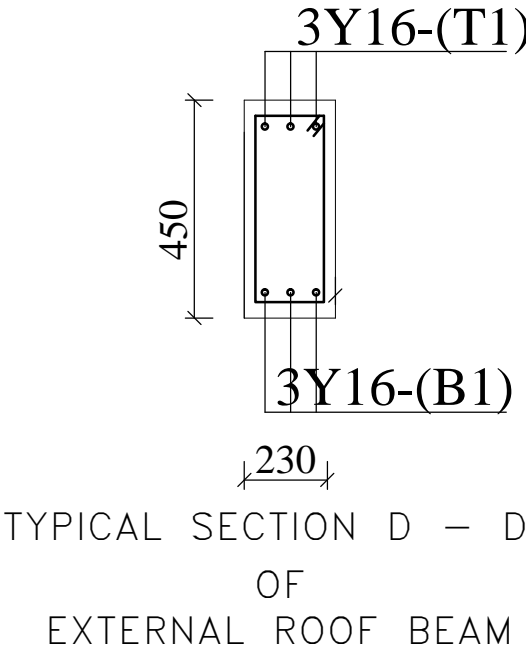
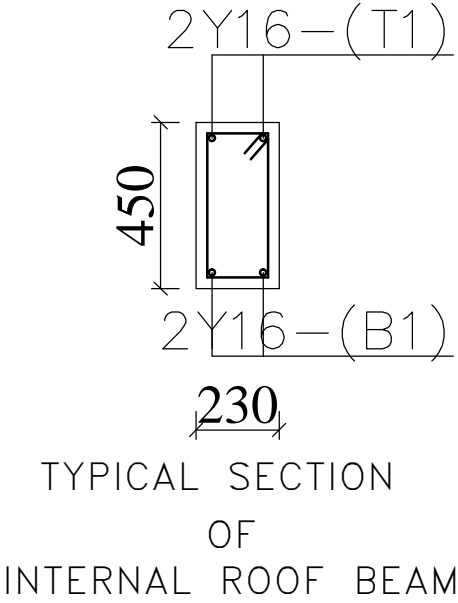
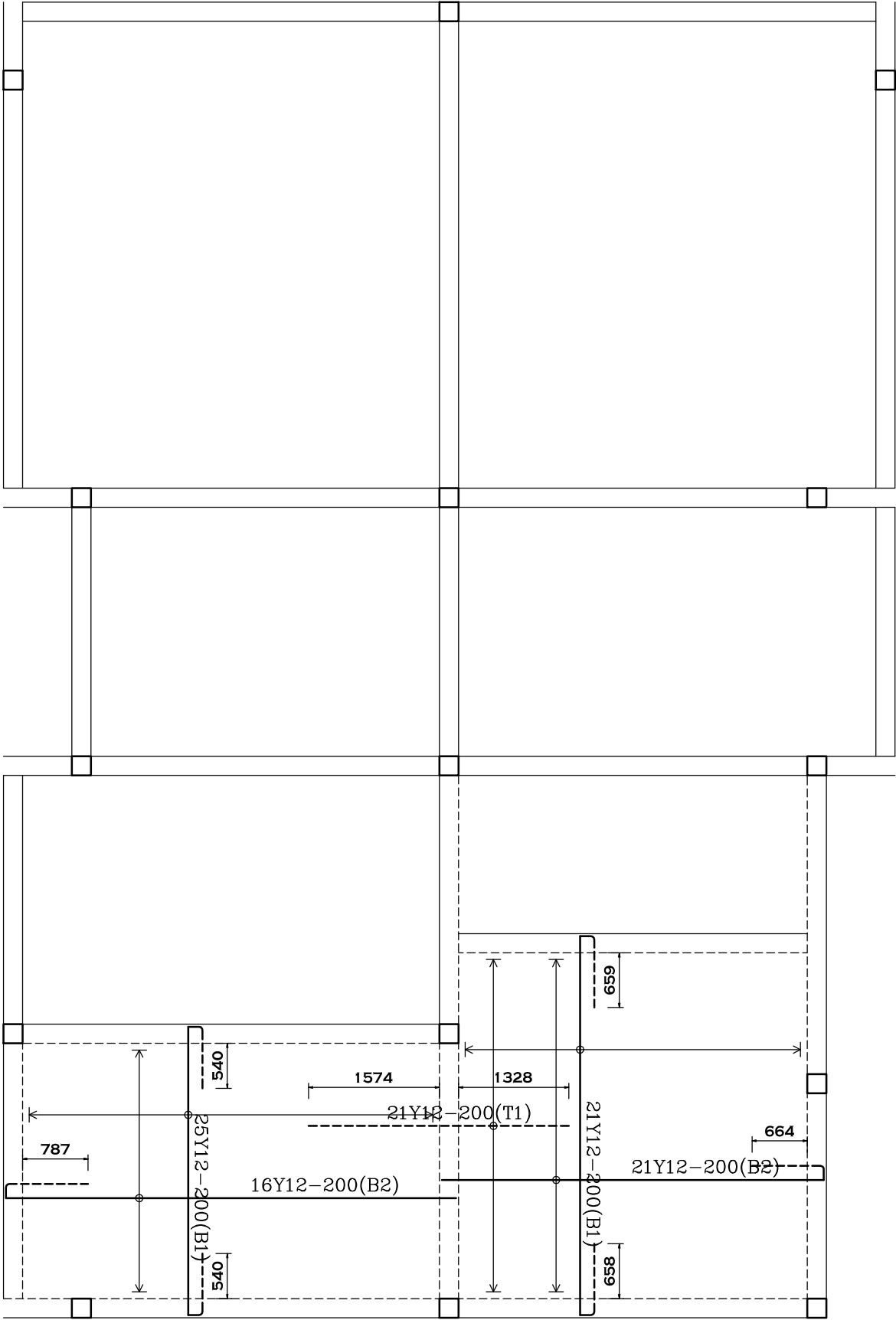
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	PROJECT:		PROPOSED RESIDENTIAL DEVELOPMENT ON PLOT 8, ANGWA RIMI GRA, KADUNA, KADUNA STATE.		DRG. TITLE	CHECKED:
					ROOF FLOOR BEAM LAYOUT / DETAILS	ENGR .P. JAYEOLA
		SCALE :	DATE :	DRAWN :		
		NTS	APRIL, 2023	MOHAMMED		

DISTRIBTION BAR Y 10-200 SHOULD BE PLACED ON ALL TOP REINFORCEMENT



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SHEET NO.

S012

DESIGNED:

OLUWAFEMI

DRG. TITLE

ROOF FLOOR SLAB DETAILS / BEAM DETAILS

CHECKED:

ENGR .P. JAYEOLA

SCALE :

NTS

DATE :

APRIL, 2023

DRAWN :

MOHAMMED