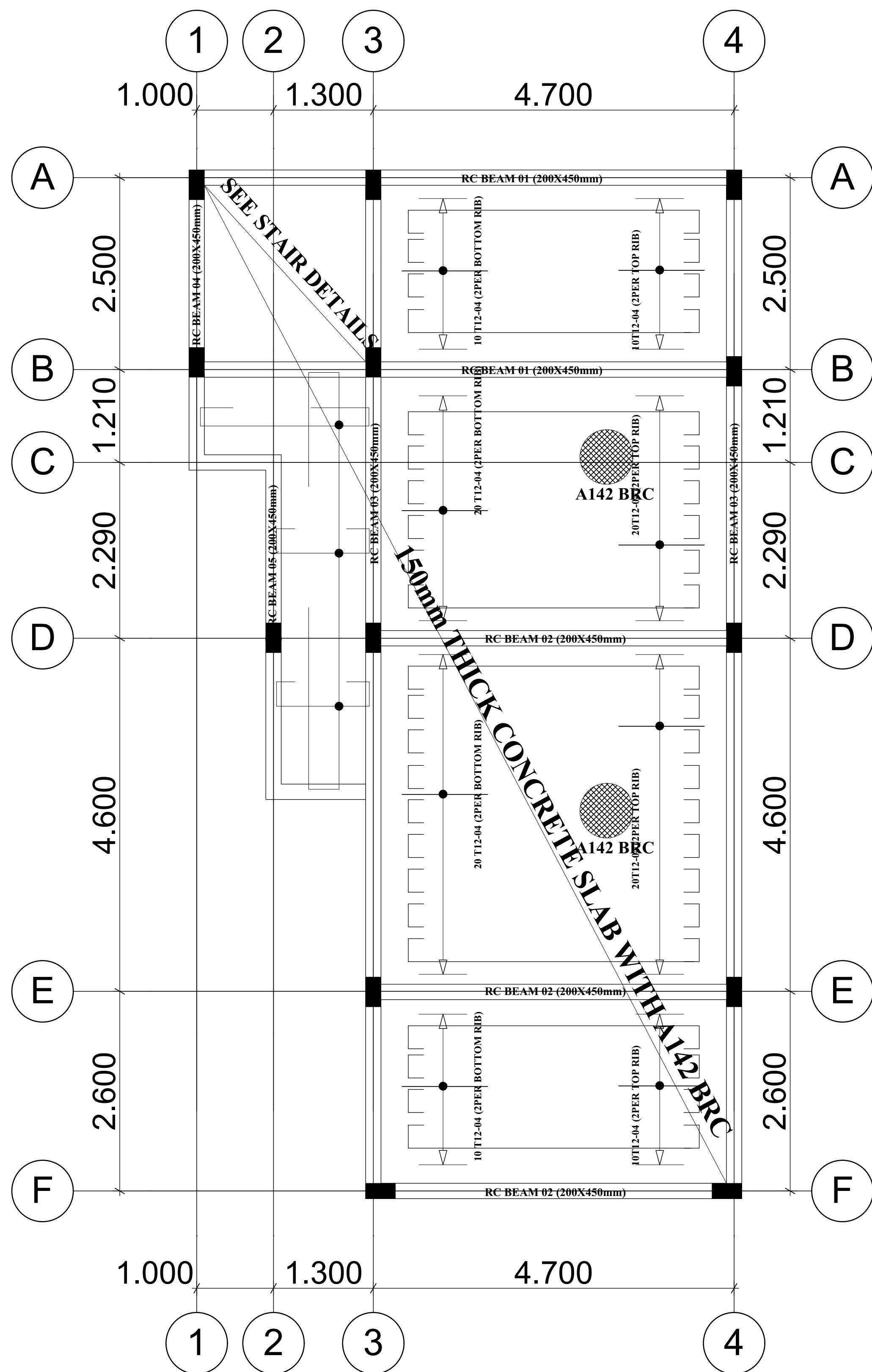
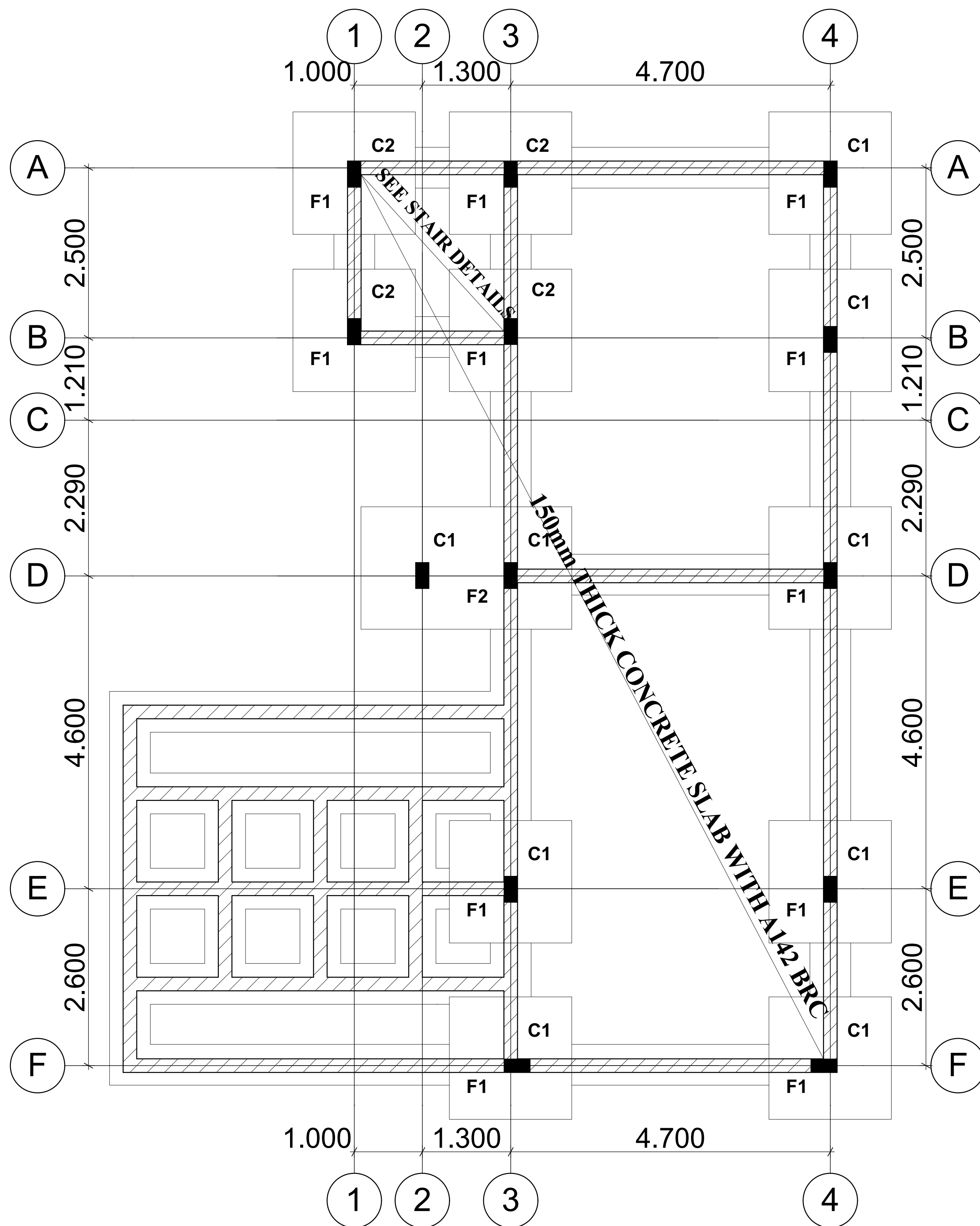




**TYPICAL FIRST, SECOND AND THIRD FLOOR
BEAM & SLAB LAY OUT:**



FOUNDATION LAY-OUT:

- | ITEM | NOTES |
|------|--|
| 1 | |
| 2 | ALL DIMENSIONS ARE mm UNLESS OTHERWISE STATED, AND SHOULD NOT BE SCALED BUT READ FROM DRAWINGS. |
| 3 | REINFORCEMENT SHOULD BE IN ACCORDANCE WITH THE ENGINEER'S BAR BENDING SCHEDULE. |
| 4 | COVER TO REINFORCEMENT IN FOUNDATIONS IS 50mm AGAINST BLINDING, AND 75mm AGAINST EARTH SIDES. |
| 5 | COVER TO REINFORCEMENT IS 25mm IN COLUMNS, BEAMS AND SLABS. |
| 6 | ALL FINE AND COURSE AGGREGATES IN CONCRETE ARE TO BS 882. |
| 7 | GROUND FLOOR SLAB TO BE CAST WITH MASS CONCRETE OF CLASS 15. OTHER REINFORCED ELEMENTS ARE TO BE CAST WITH CONCRETE CLASS 25. PRECAST ELEMENTS AND LINTELS TO BE CAST WITH CONCRETE CLASS 30 |
| 8 | R-MEANS ROUND MILD STEEL BARS OF 250N/mm ² YIELD STRESS. |
| 9 | T-MEANS HIGH YIELD RIBBED BARS OF 460N/mm ² YIELD STRESS. |
| 10 | SOIL BEARING PRESSURE IS 200KN/mm ² . |
| 11 | BLINDING CONCRETE SHALL BE CLASS 15/20 (1:2.5:5) |
| 12 | REINFORCEMENT BARS SHALL BE HIGH YIELD RIBBED BARS TO BS 4449 |
| 13 | WALLING SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 5.6kN/mm ² AT 28 DAYS. |
| 14 | STRUCTURAL TIMBER SHALL BE WELL SEASONED, WITH A MOISTURE CONTENT NOT EXCEEDING 15%. |
| 15 | APPROVED PRESERVATIVE SHALL BE PRESSURE IMPREGATED TO ALL STRUCTURAL TIMBER. |

NOMINAL MIXES, CUBE STRENGTH, WATER/CEMENT RATIO, AND WORKABILITY.

GRADE	MIX	7 DAYS	28 DAYS	BS CODE	AGGT SIZE
C30	1:1:2	30.0	30.0	BS 882	12mm-20mm
C25	1:1.5:3	19.0	25.0		
C20	1:2:4	15.0	20.0		
C15	1:2.5:5	10.0	15.0		
C10	1:3:6	7.7	11.4	BS 882	12mm-20mm

Maximum water/cement ratio is 0.60 and medium workability of 75 for all specified grades.

STRUCTURAL ENGINEER:

PROJECT DETAILS:

**PROPOSED PRIMARY
SCHOOL**

CLIENTS DETAILS

MERCY PRIMARY SCHOOL

STRUCTURAL DRAWINGS BY:



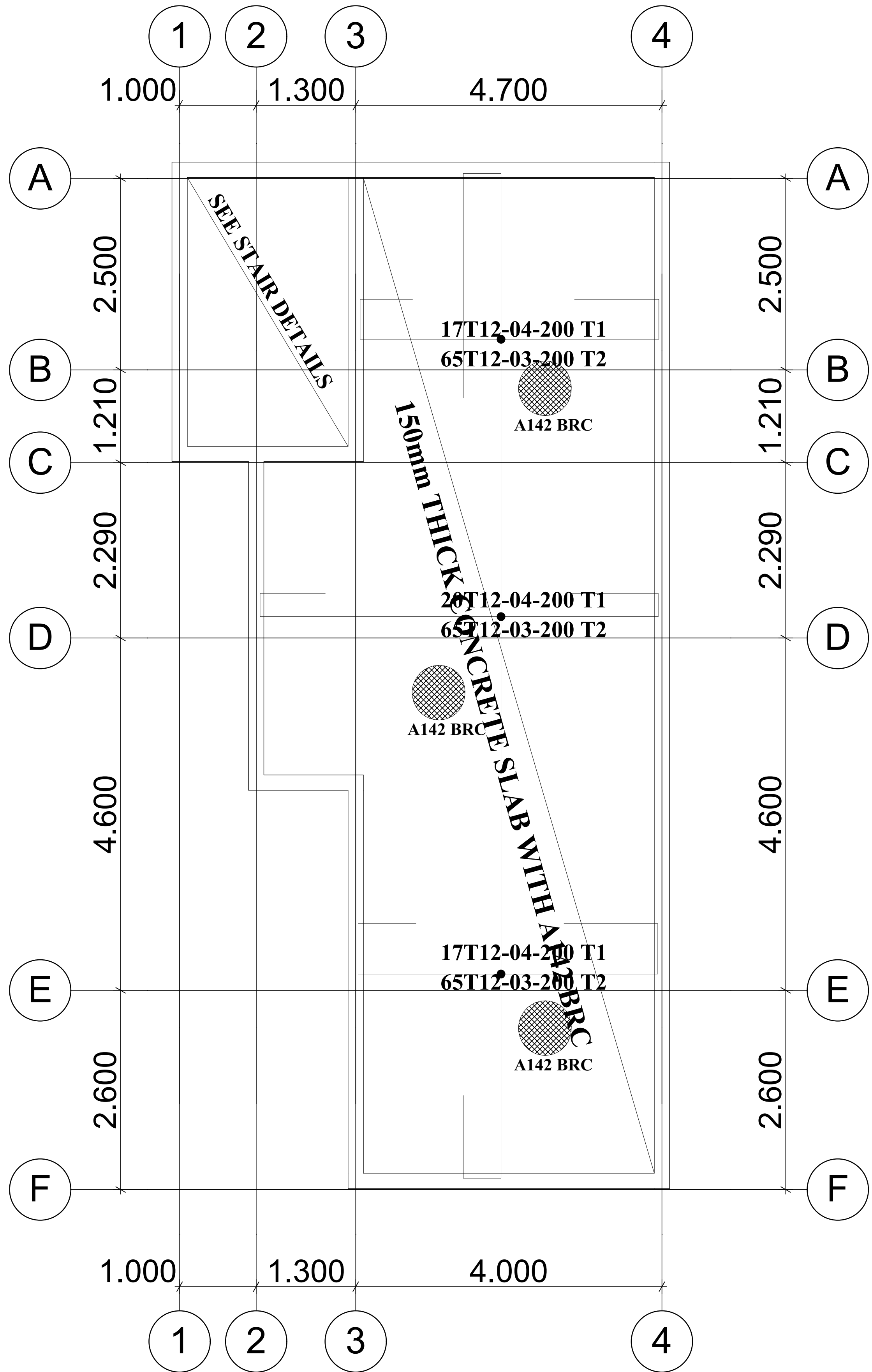
SMEGE INVESTMENTS LTD
0757752337 / 0786375209

Scale: As indicated

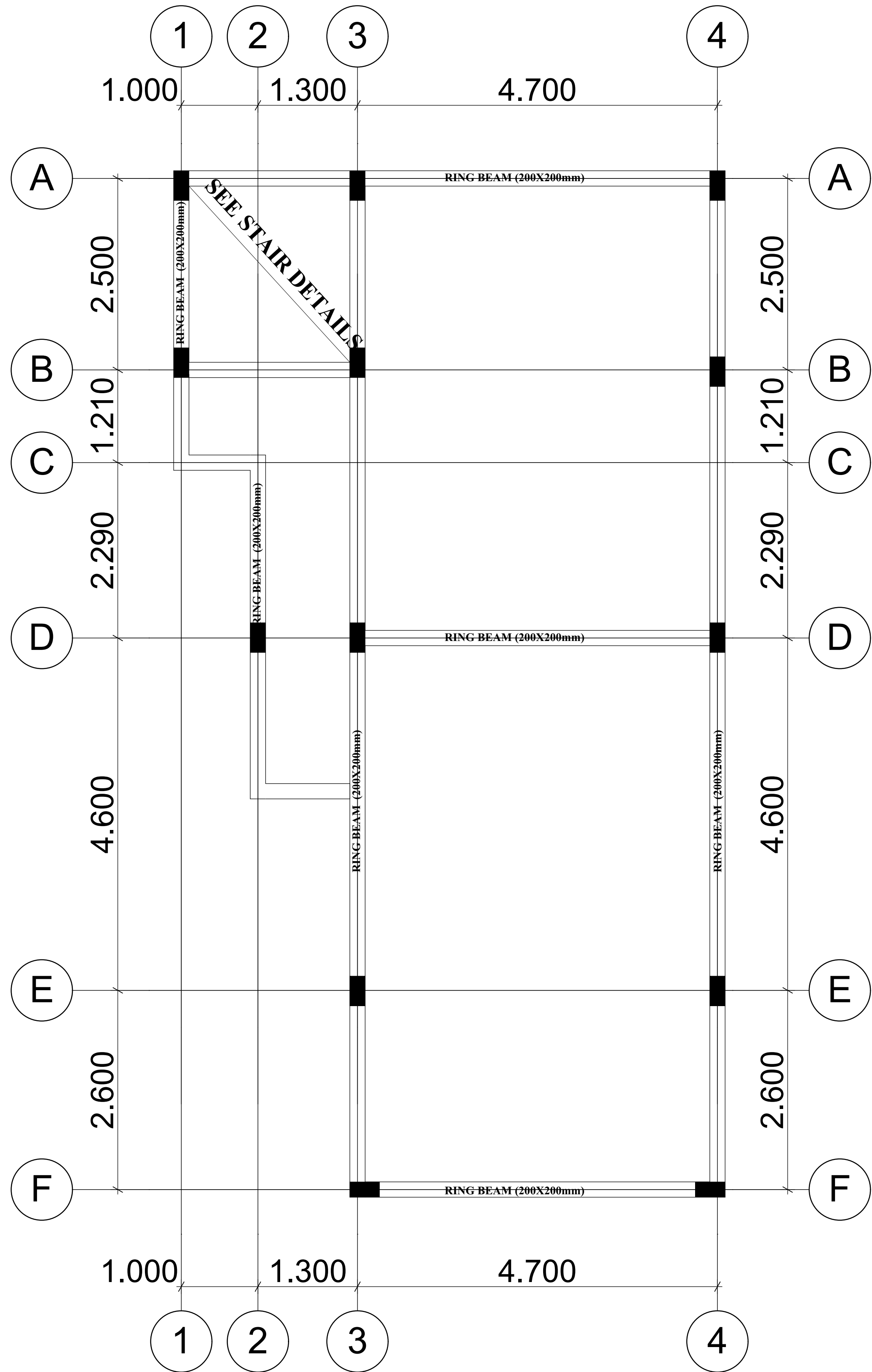
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APRIL 2026

Checked by:



**TYPICAL TERRACCE FLOOR BEAM & SLAB LAY
OUT:**



TYPICAL RING-BEAM LAY OUT:

ITEM	NOTES
1	
2	ALL DIMENSIONS ARE mm UNLESS OTHERWISE STATED, AND SHOULD NOT BE SCALED BUT READ FROM DRAWINGS.
3	REINFORCEMENT SHOULD BE IN ACCORDANCE WITH THE ENGINEER'S BAR BENDING SCHEDULE.
4	COVER TO REINFORCEMENT IN FOUNDATIONS IS 50mm AGAINST BLINDING, AND 75mm AGAINST EARTH SIDES.
5	COVER TO REINFORCEMENT IS 25mm IN COLUMNS, BEAMS AND SLABS.
6	ALL FINE AND COURSE AGGREGATES IN CONCRETE ARE TO BS 882.
7	GROUND FLOOR SLAB TO BE CAST WITH MASS CONCRETE OF CLASS 15. OTHER REINFORCED ELEMENTS ARE TO BE CAST WITH CONCRETE CLASS 25. PRECAST ELEMENTS AND LINTELS TO BE CAST WITH CONCRETE CLASS 30
8	R-MEANS ROUND MILD STEEL BARS OF 250N/mm ² YIELD STRESS.
9	T-MEANS HIGH YIELD RIBBED BARS OF 460N/mm ² YIELD STRESS.
10	SOIL BEARING PRESSURE IS 200KN/mm ² .
11	BLINDING CONCRETE SHALL BE CLASS 15/20 (1:2.5:5)
12	REINFORCEMENT BARS SHALL BE HIGH YIELD RIBBED BARS TO BS 4449
13	WALLING SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 5.6KN/mm ² AT 28 DAYS.
14	STRUCTURAL TIMBER SHALL BE WELL SEASONED, WITH A MOISTURE CONTENT NOT EXCEEDING 15%.
15	APPROVED PRESERVATIVE SHALL BE PRESSURE IMPREGATED TO ALL STRUCTURAL TIMBER.

NOMINAL MIXES, CUBE STRENGTH, WATER/CEMENT RATIO, AND WORKABILITY.

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Maximum water/cement ratio is 0.60 and medium workability of 75 for all specified grades.

STRUCTURAL ENGINEER:

PROJECT DETAILS:

PROPOSED PRIMARY SCHOOL

CLIENTS DETAILS:

MERCY PRIMARY SCHOOL

STRUCTURAL DRAWINGS BY:

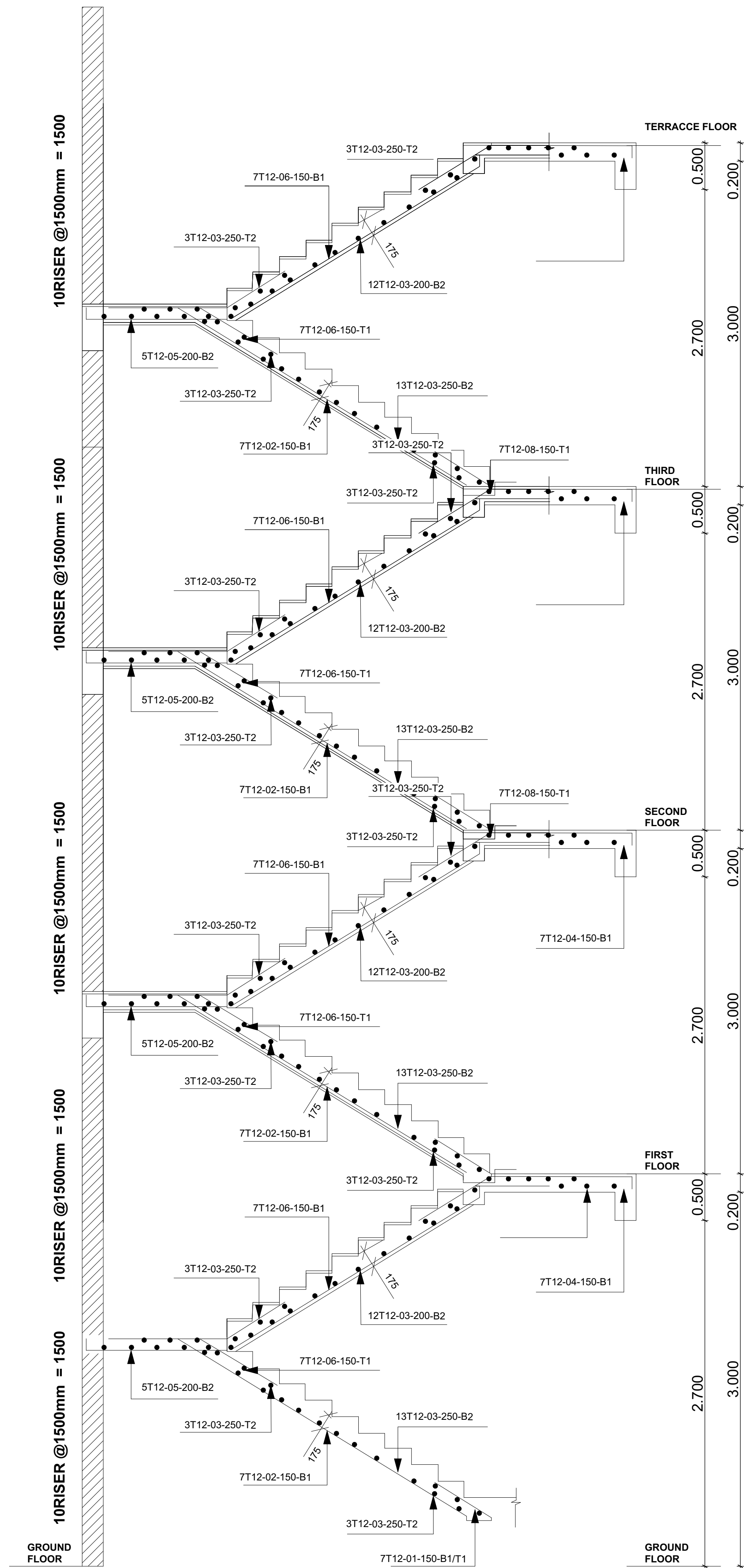
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Scale: As indicated

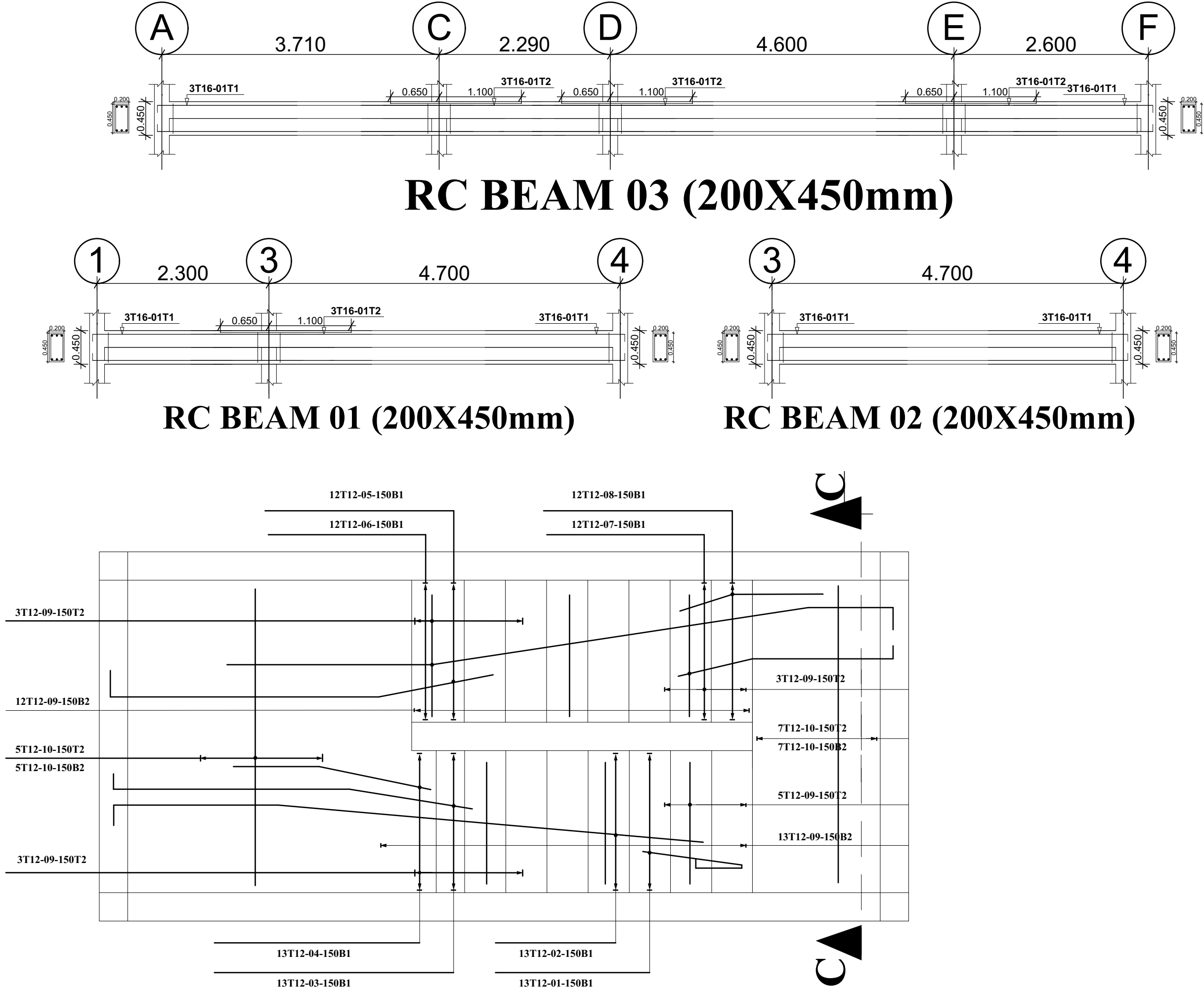
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APRIL 2026

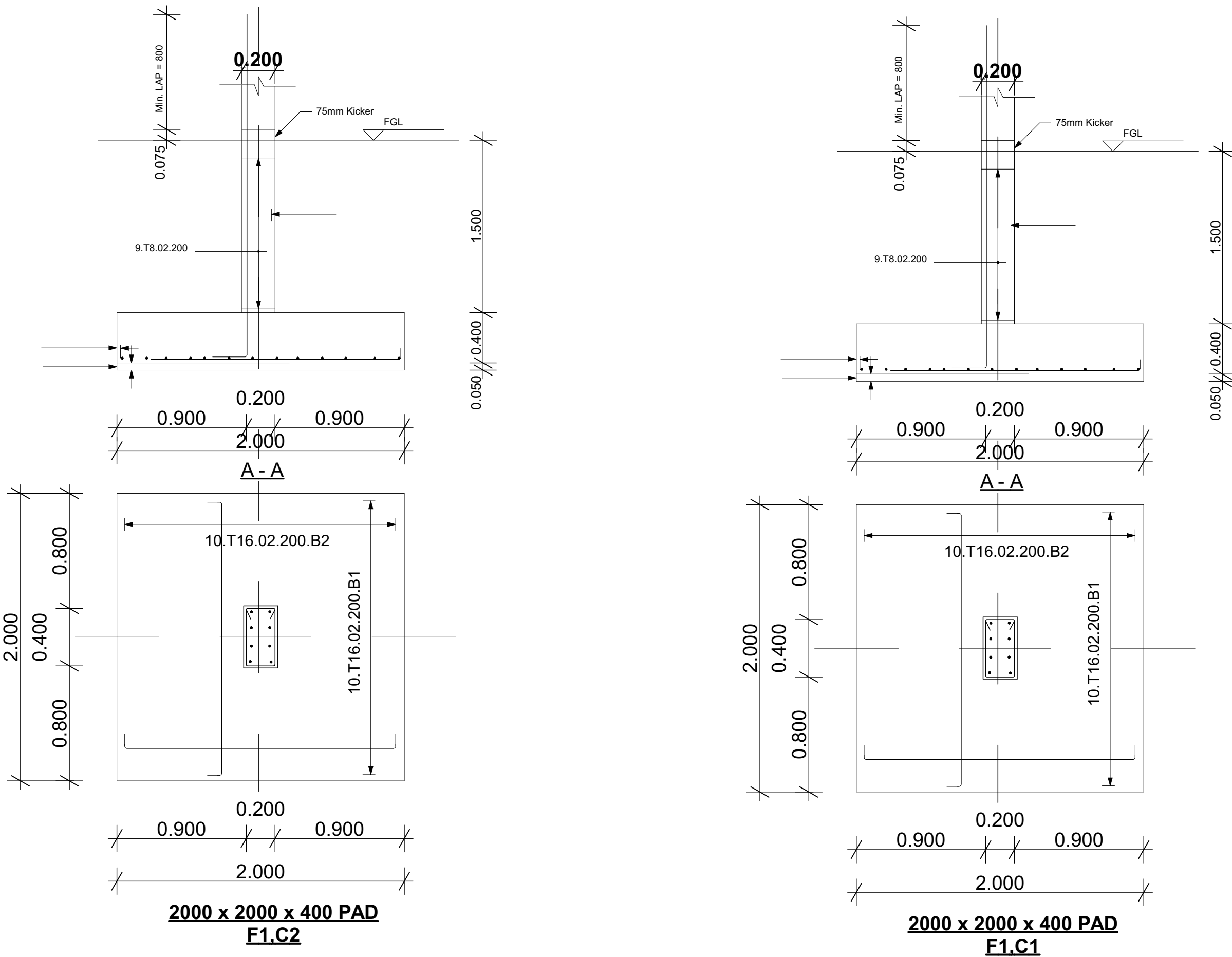
Checked by:



Section through the Staircase



STAIRCASE - FLOOR PLAN



- ITEM NOTES
- 1
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 - 10 SOIL BEARING PRESSURE IS 200kN/mm².
 - 11 BLINDING CONCRETE SHALL BE CLASS 15/20 (1:2.5:5)
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Maximum water/cement ratio is 0.60 and medium workability of 75 for all specified grades.

STRUCTURAL ENGINEER:

PROJECT DETAILS:

PROPOSED PRIMARY SCHOOL

CLIENT'S DETAILS

MERCY PRIMARY SCHOOL

STRUCTURAL DRAWINGS BY:



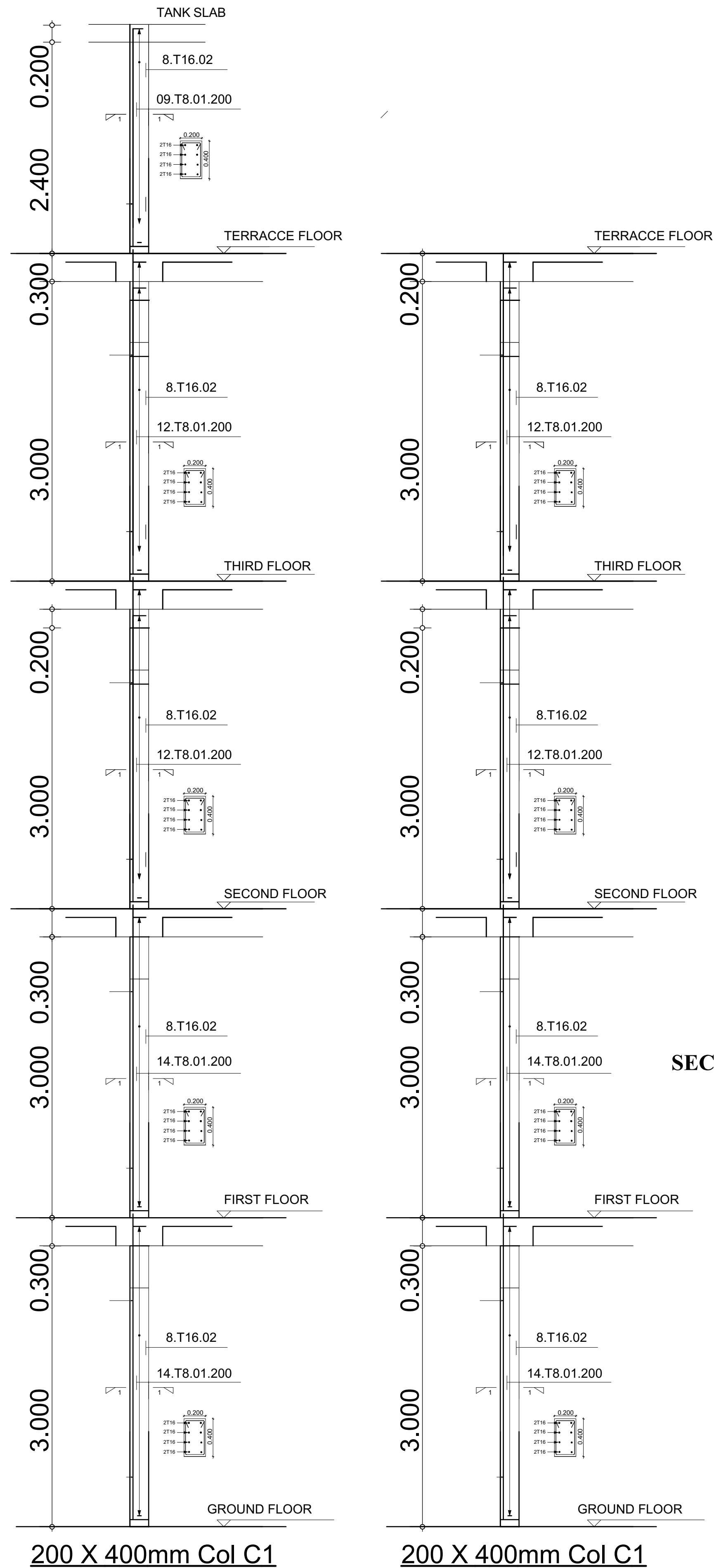
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Scale: As indicated

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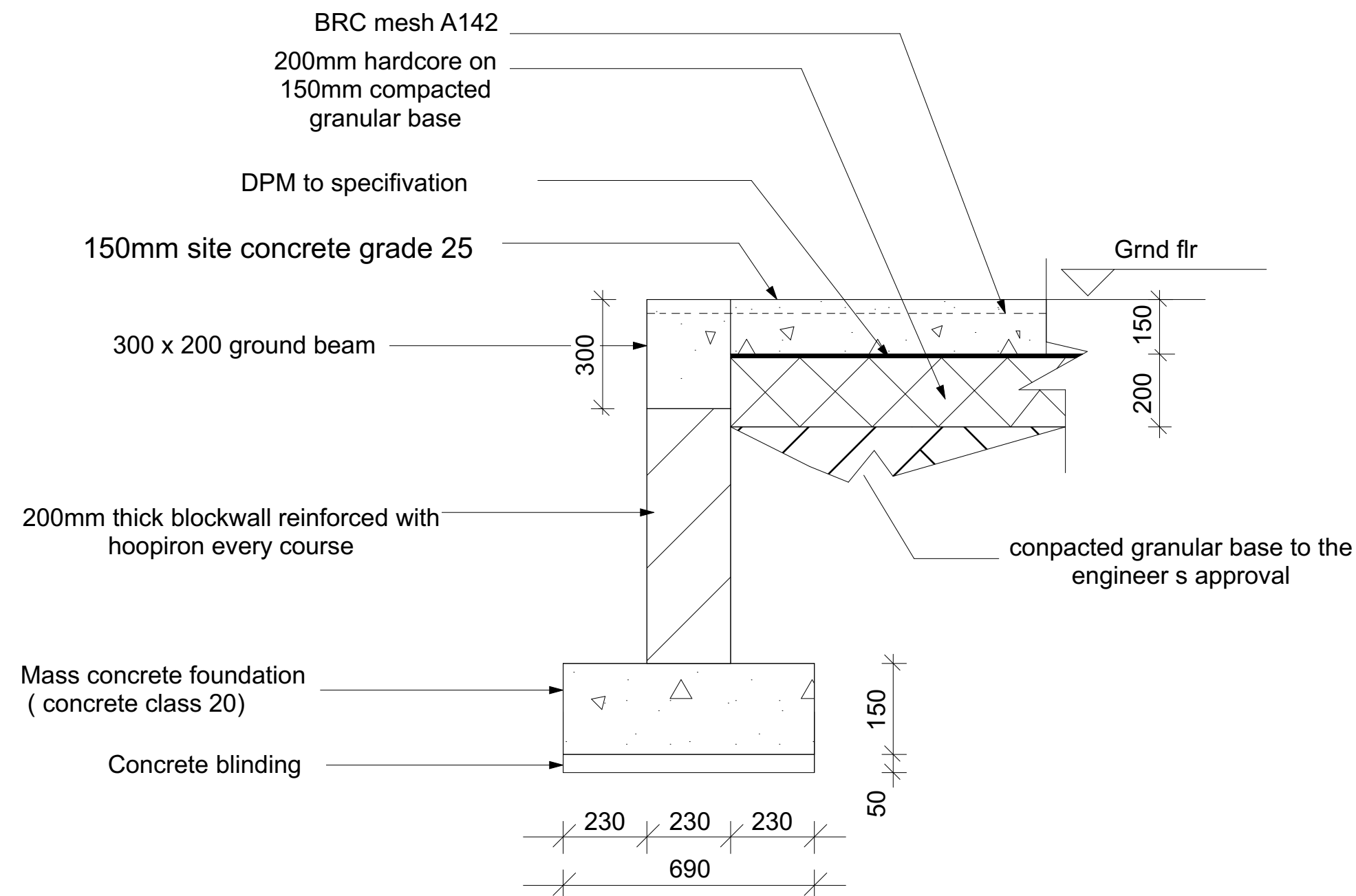
APRIL 2026

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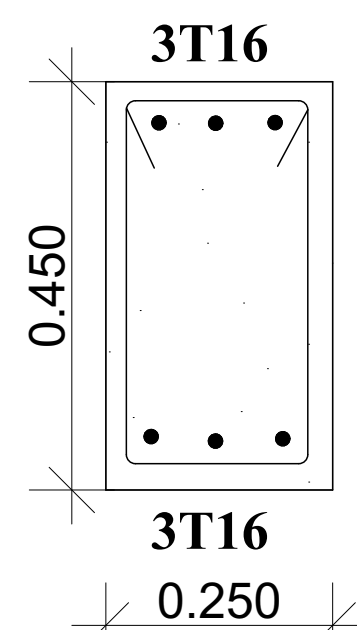


200 X 400mm Col C1

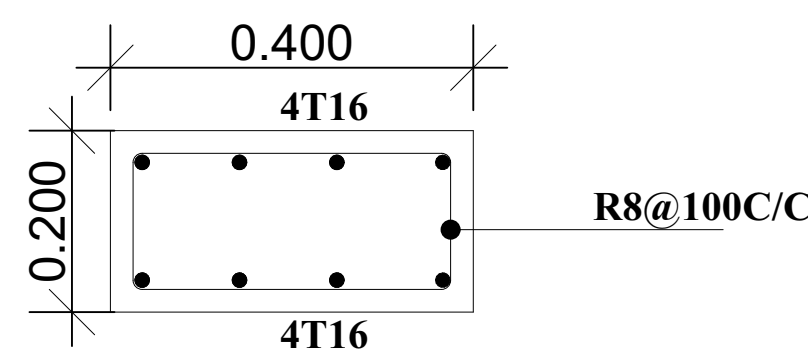
200 X 400mm Col C1



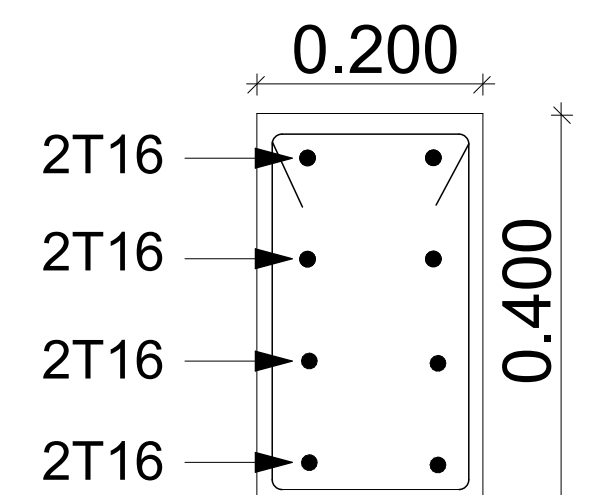
Section through footing



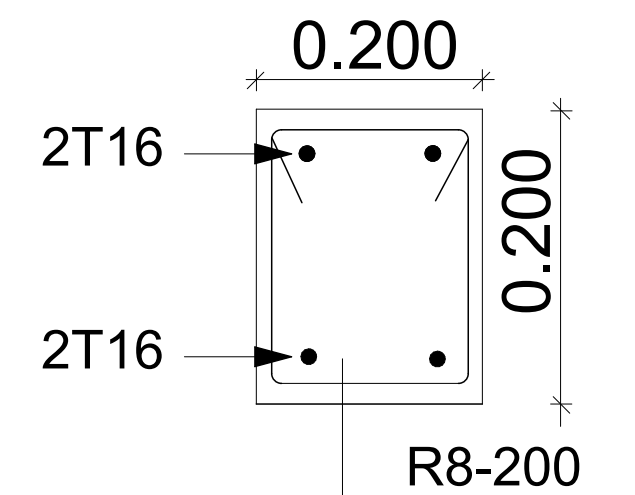
SECTION R-R THRU RING BEAM, 1:20



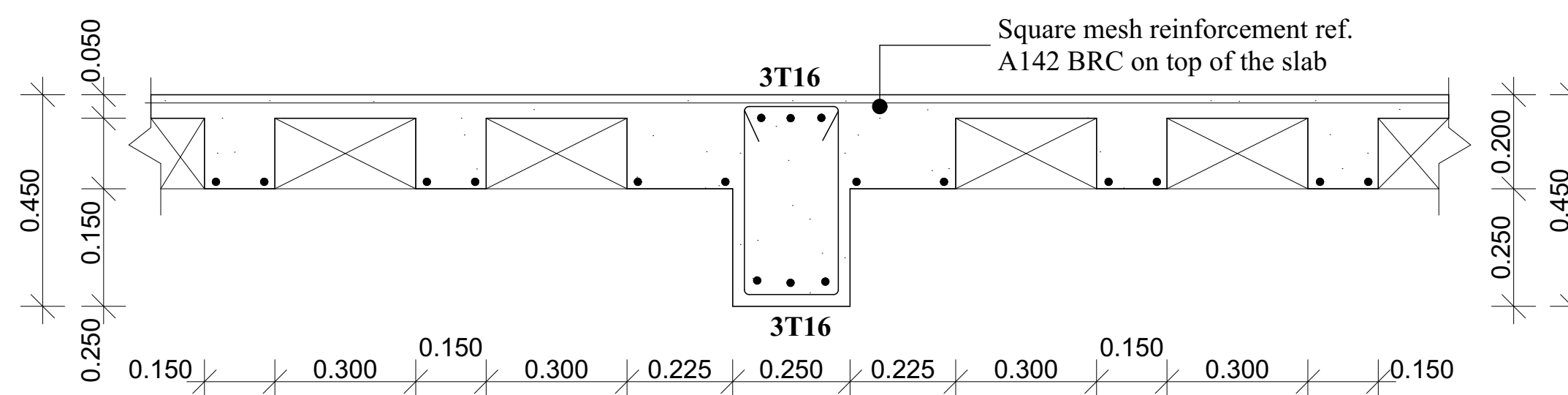
SECTION THRU' SLAB BEAM, 1:20



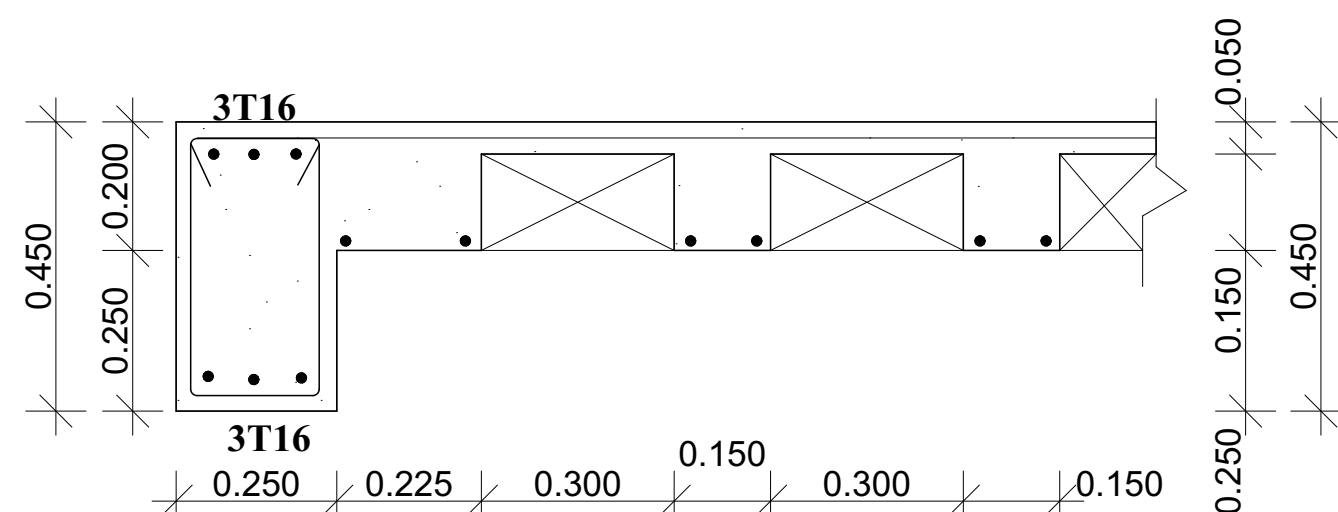
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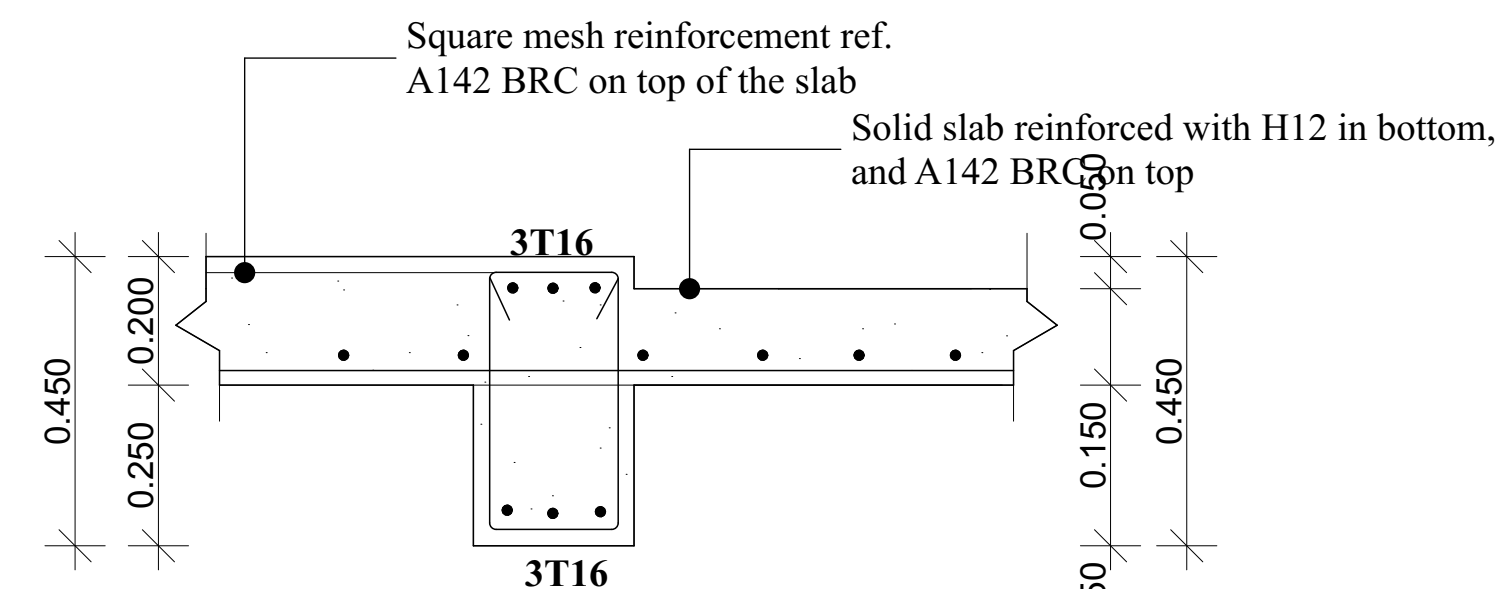
TYPICAL SECTION P-P THROUGH THE RING BEAM



SECTION S-S THRU FLOOR SLAB, 1:20



SECTION E-E THRU SLAB EDGE, 1:20



SECTION J-J THRU' SLABS AT THE BALCONY, 1:20

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STRUCTURAL ENGINEER:

PROJECT DETAILS:

PROPOSED PRIMARY SCHOOL

CLIENTS DETAILS

MERCY PRIMARY SCHOOL

STRUCTURAL DRAWINGS BY:



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Scale: As indicated

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