

PERIMETER WALL

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 - 2. ALL DIMENSIONS TO BE CHECKED ON AND CONFIRMED ON SITE BE COMMENCEMENT OF ANY WORK.
 - 3. WRITTEN DIMENSIONS OVERRIDES SCALED DIMENSIONS, THUS ALL DIMENSIONS ARE TO BE READ AND NOT AT ALL ANY TIME SCALED FROM THE DRAWING.
 - 4. ANY DISCREPANCY TO BE REPORTED TO THE IOM SITE ENGINEER/PROJECT MANAGER BEFORE PROCEEDING.



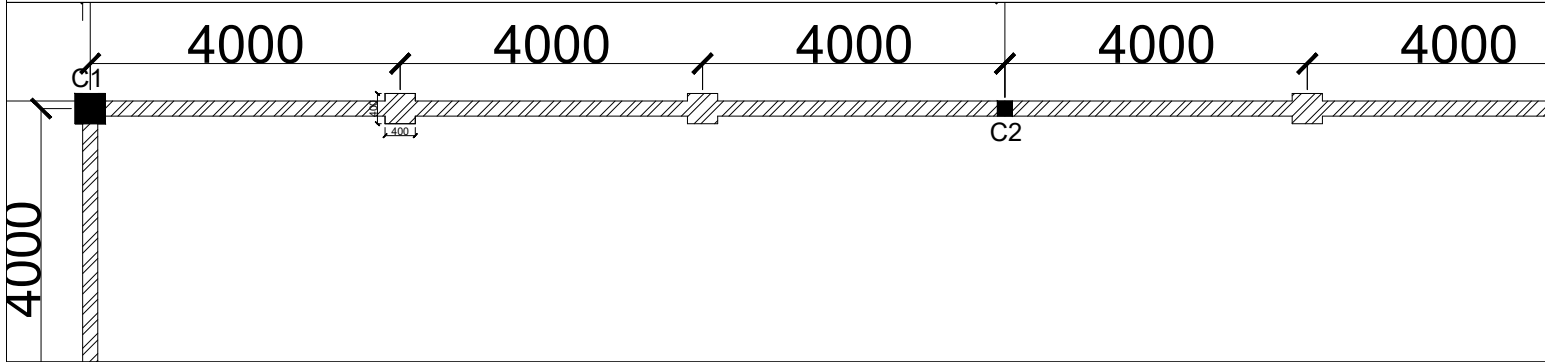
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DRAWING TITLE:
PERIMETER WALL

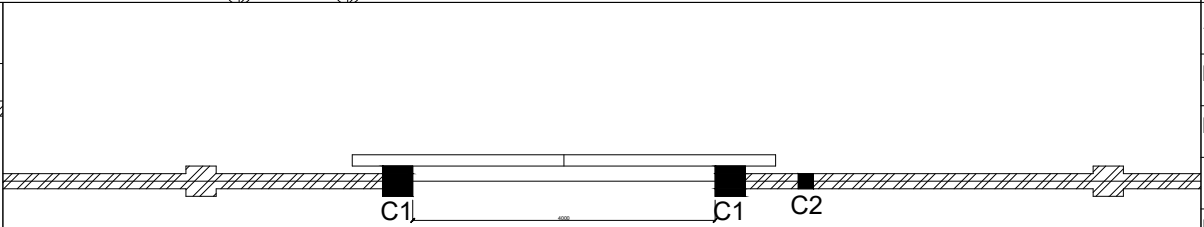
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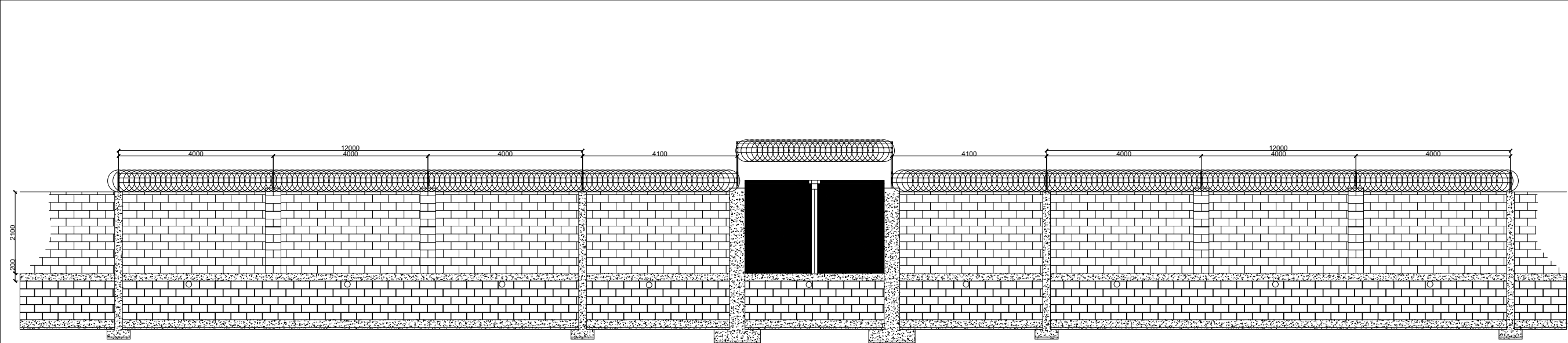
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DRAWN BY: Haybe Abdi
APPROVED BY: Margaret Suen
DATE : 4TH MARCH 2022
REVISED BY:
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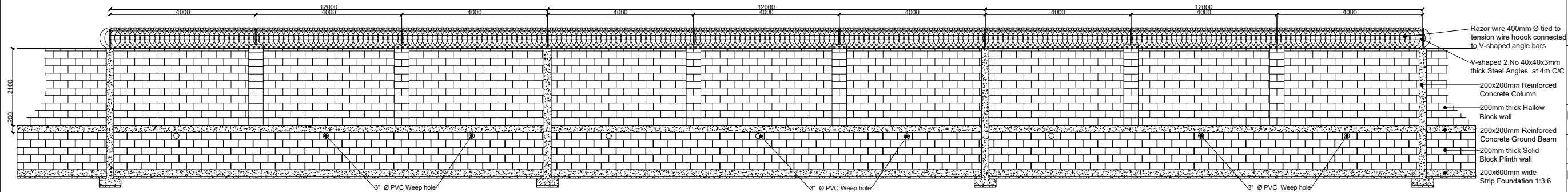


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SECTION D-D



SECTION A-A

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PERIMETER WALL - SECTIONS

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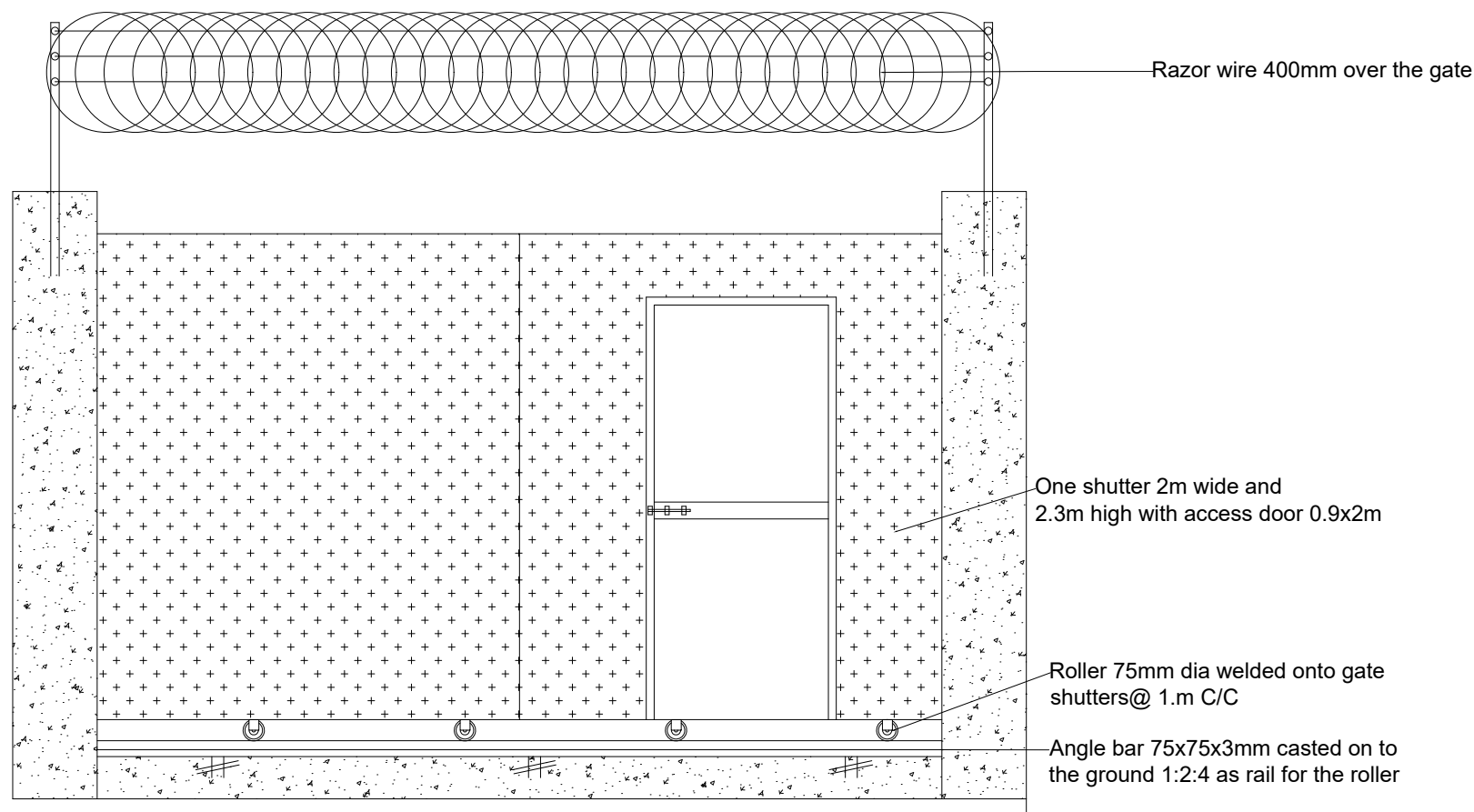
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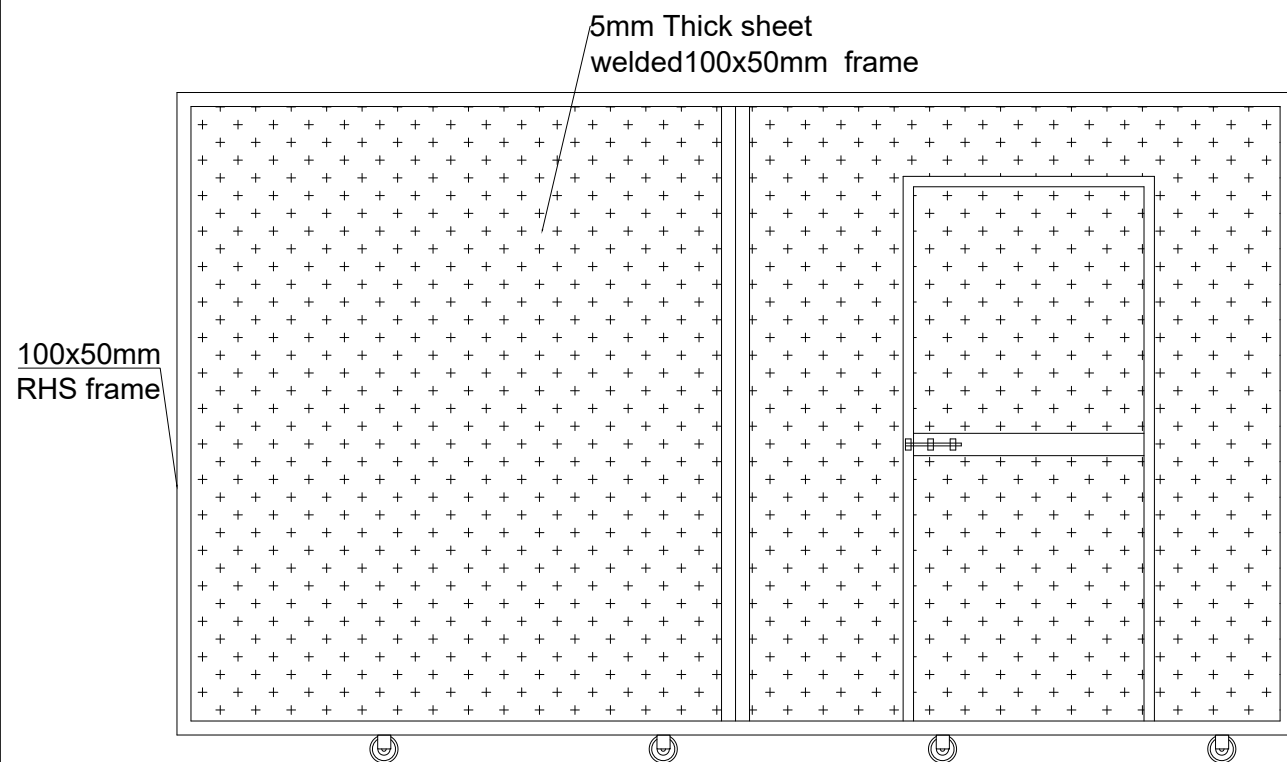
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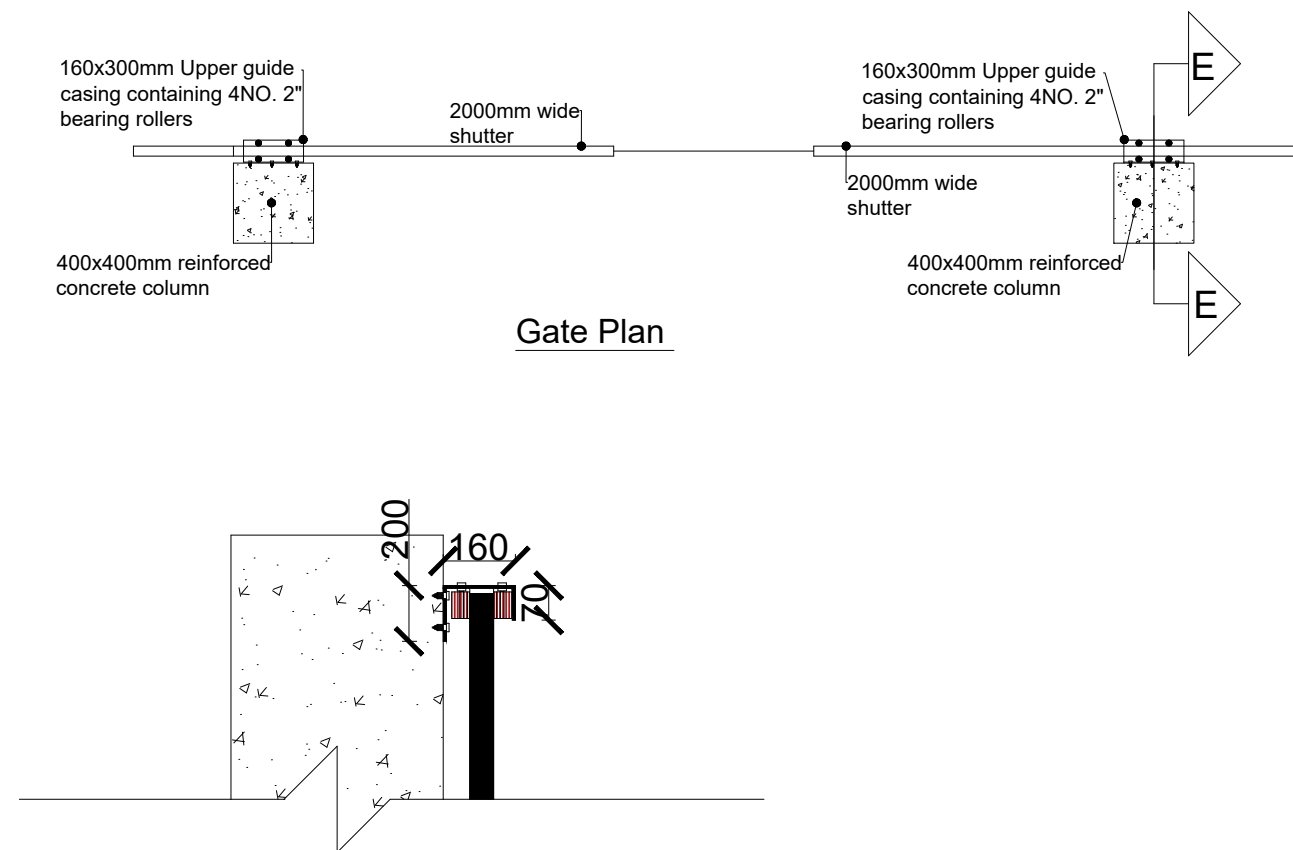
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Main Gate Details



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PERIMETER WALL - GATE DETAILS

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Structural Notes:

- i) Perimeter wall shall be founded on a strip footing supporting load bearing block masonry wall having a depth of 1500mm from the floor finish level with bottom of excavation compacted prior to laying the foundation wall.
- ii) Strip footing shall be placed on the natural normal soil layer and achieve a minimum bearing capacity of 150 KN/m² . The top 300 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
- iii) Foundation trench excavation to be approved by the Engineer prior to the construction of the foundation.
- iv) Material Specification
 - a) Grade of Structural Concrete
 - C-25 (Cube characteristics strength of 25 MPa) for columns and beams;
 - C-20 (Cube characteristics strength of 20 MPa) for footings)
 - b) Concrete reinforcement bar
 - Grade 460 (Characteristics yield strength of fyk = 460 MPa)
 - c) Steel hollow section for roofing system , verandah column and plates
 - Grade- C : Tensile Strength = 375 Mpa
Yield Strength = 275 Mpa
 - d) Grade of Bolts
 - Grade 4.6: Yield Strength = 240 Mpa
Tensile Strength = 400 Mpa
- v) Durability Requirements
 - ❖ Concrete Cover to Reinforcement
 - Floor slabs :25mm;
 - Beams: 38mm
 - Columns; 38mm
 - All substructure (below ground level): 50mm
 - ❖ Protection of Steelwork
 - Surface preparation by blast cleaning, pickling process or where approved by wirebrushing;
 - Application of one coat of an approved pre-fabrication primer e.g. Zinc chromate;
 - Application of one coat of approved primer after fabrication;
 - Two coats of an approved paint system to be proposed by the Architect, one applied in the shop and the other applied on site after erection.

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PERIMETER WALL - NOTES

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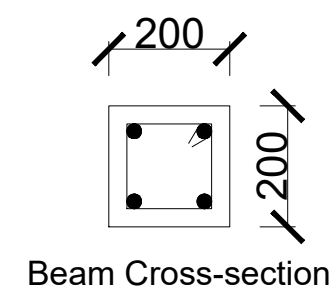
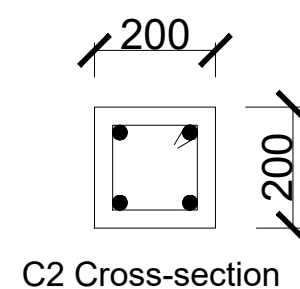
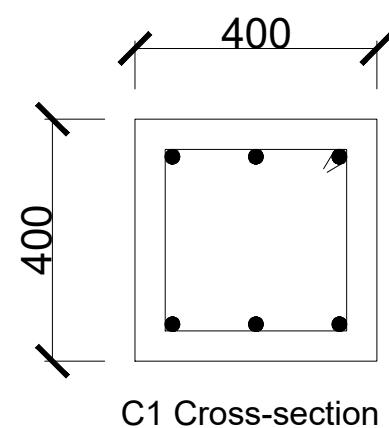
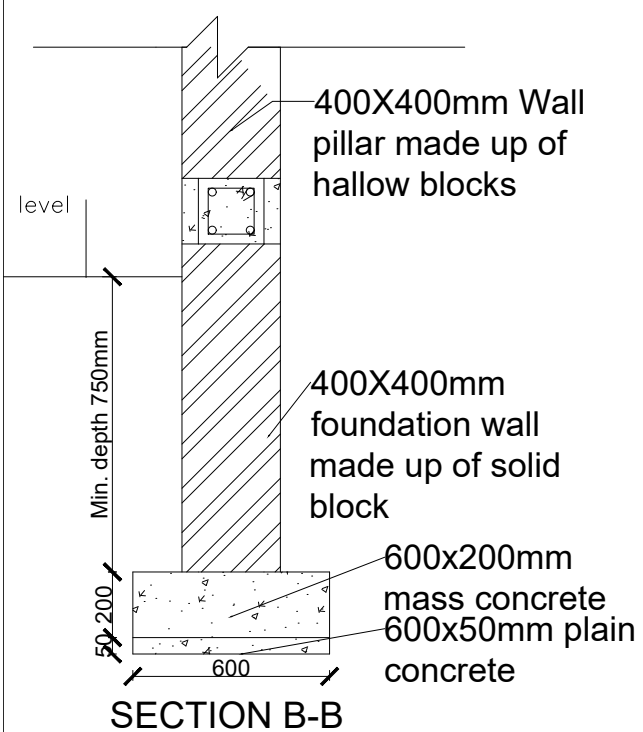
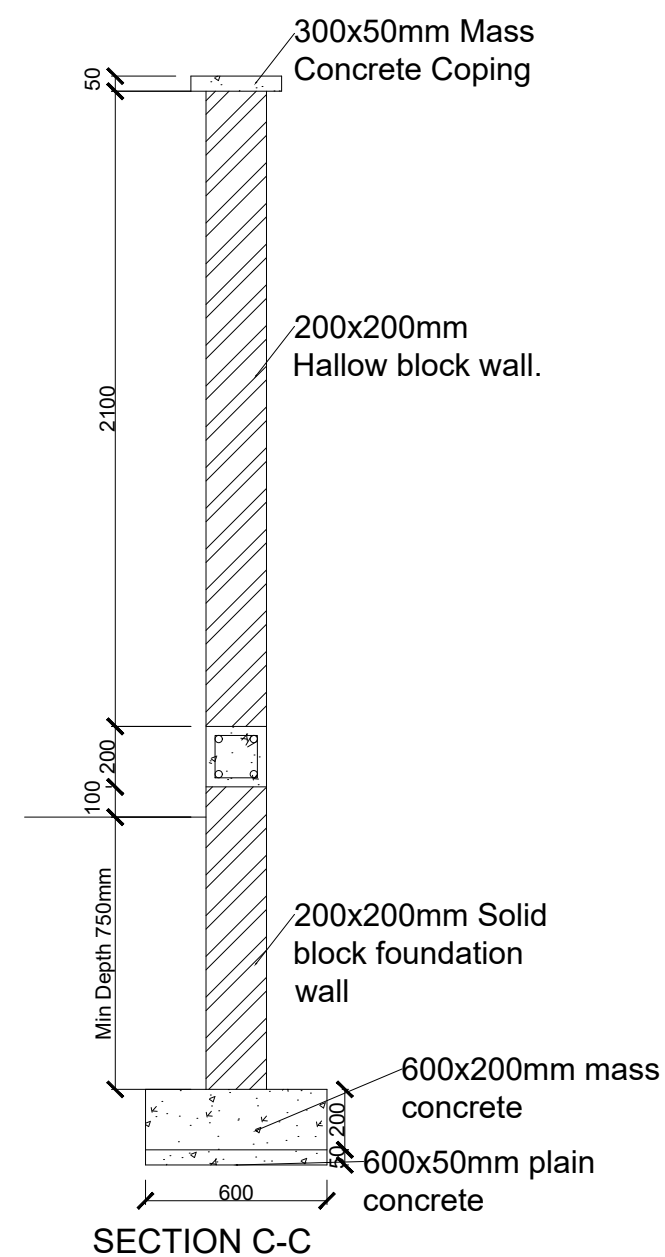
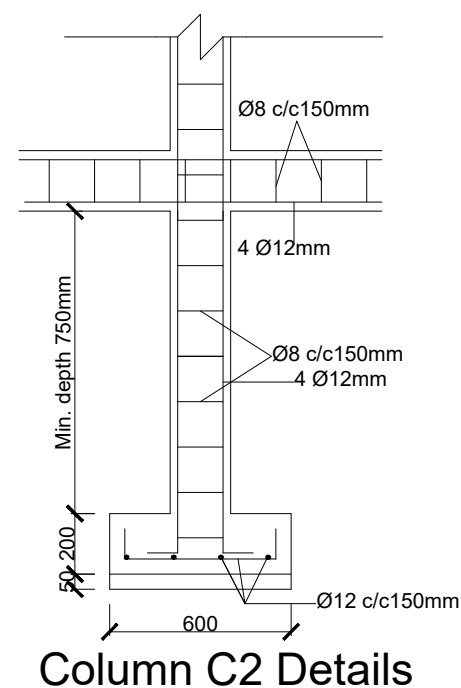
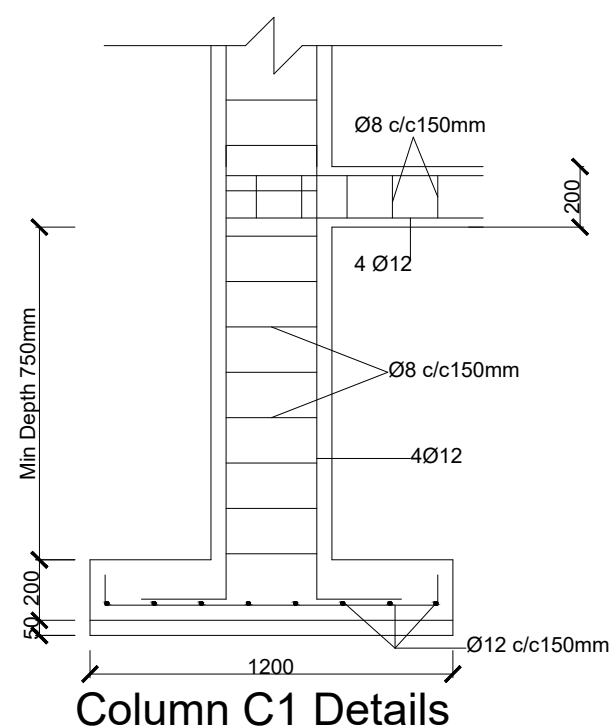
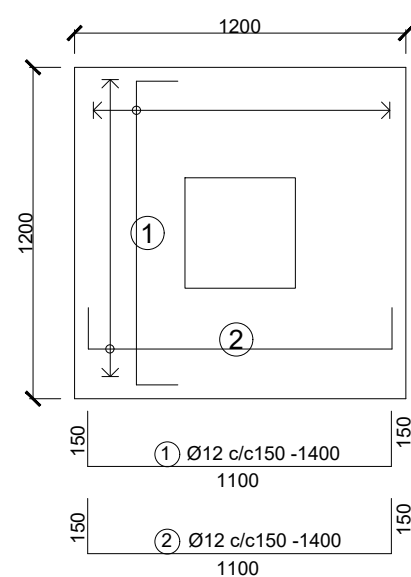
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PERIMETER WALL - STRUCTURAL DETAILS

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