

PERIMETER WALL (BLACK COTTON SOIL)

GENERAL NOTES:



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Rev:	Date	Description:	Approved
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Program



Enhancing Community
Resilience and Local
Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED BOUNDARY WALL (100X80M)

Drawing Tittle

BOUNDARY WALL LAYOUT

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

Approved: ----

Sheet #: 1/8

Scale: AS SPECIFIED

Date: 7 December 2023

Rev: 0

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Program



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Client:

GOVERNMENT OF SOUTH SUDAN

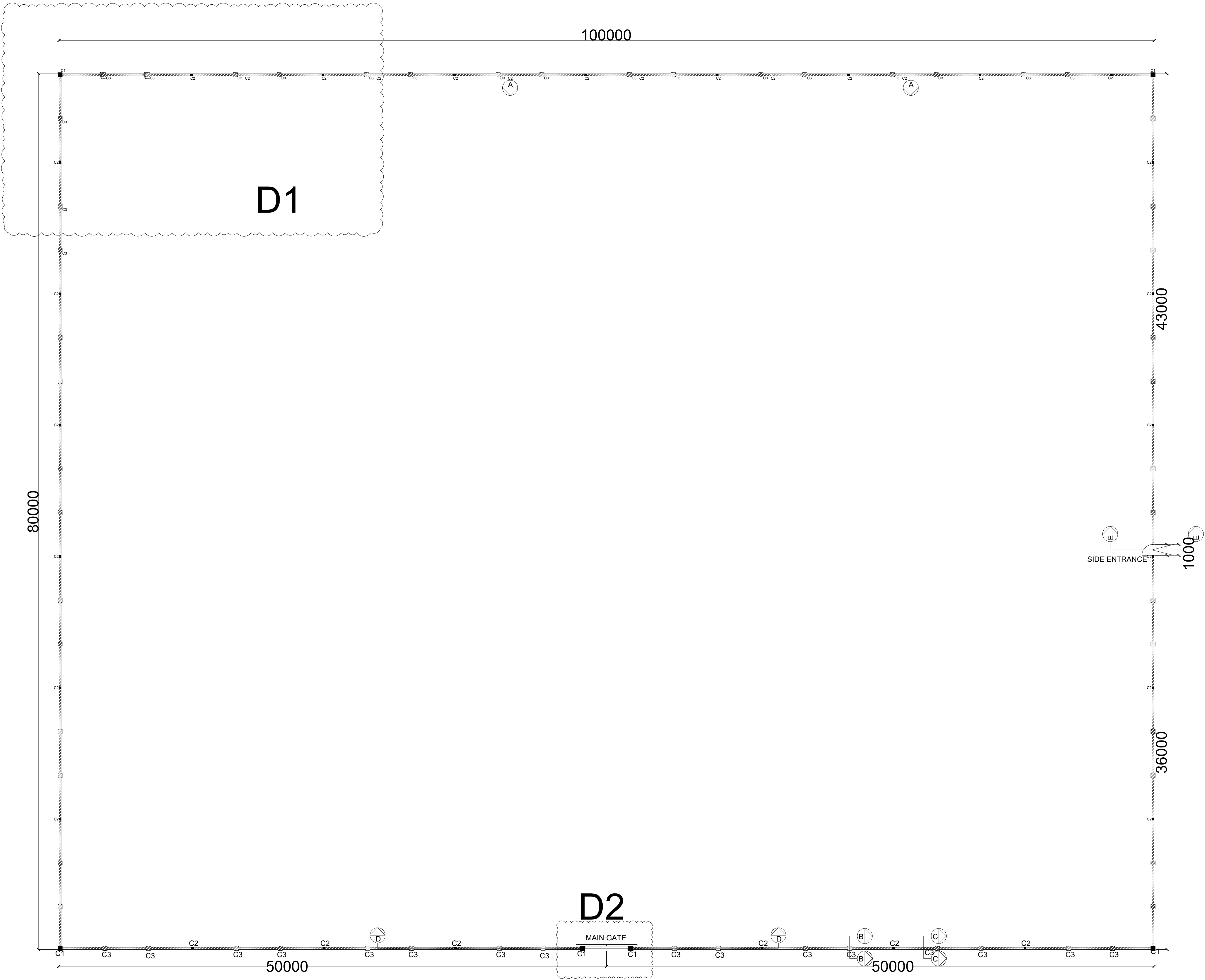
Implemented By:

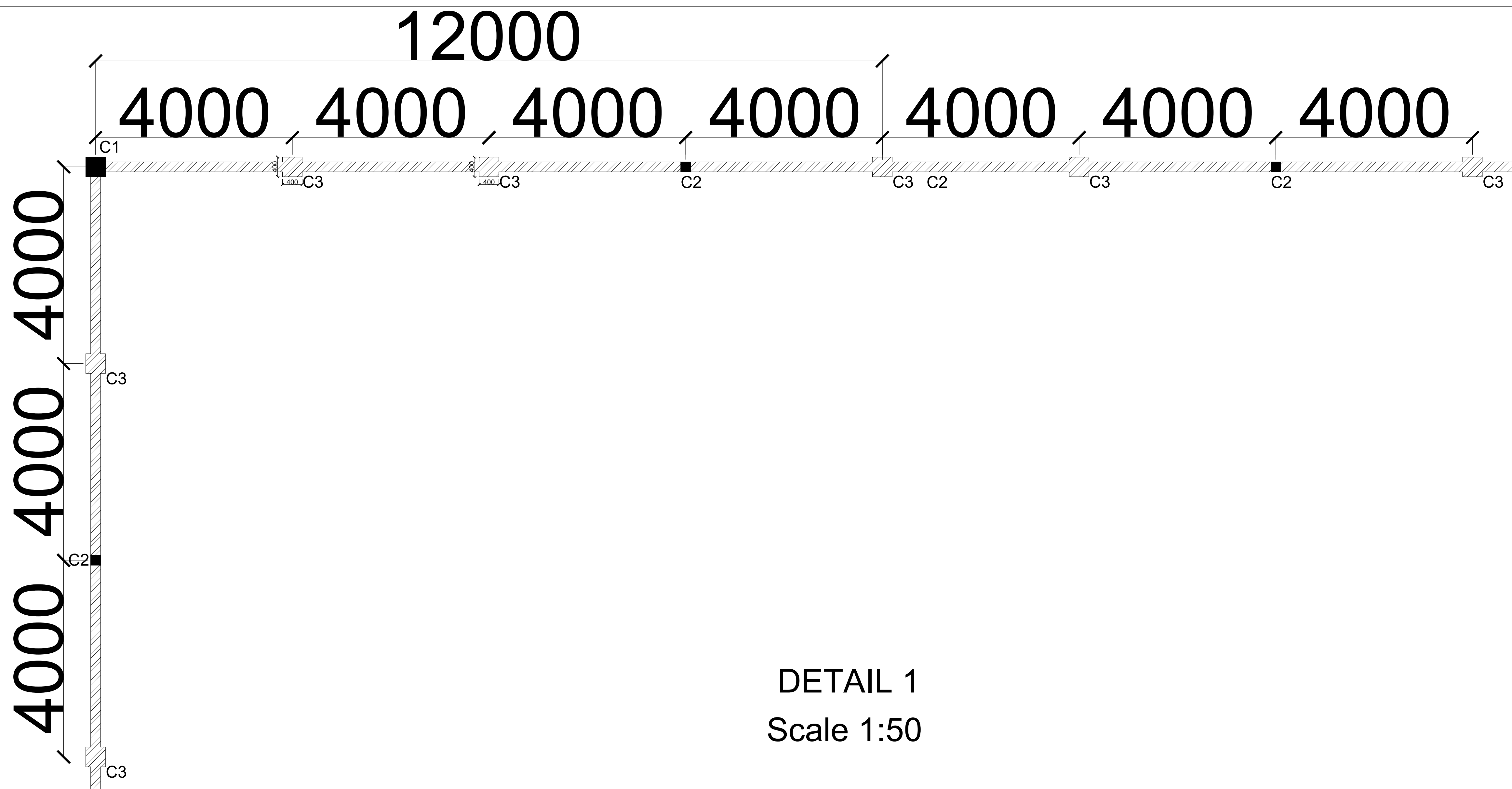


Project:

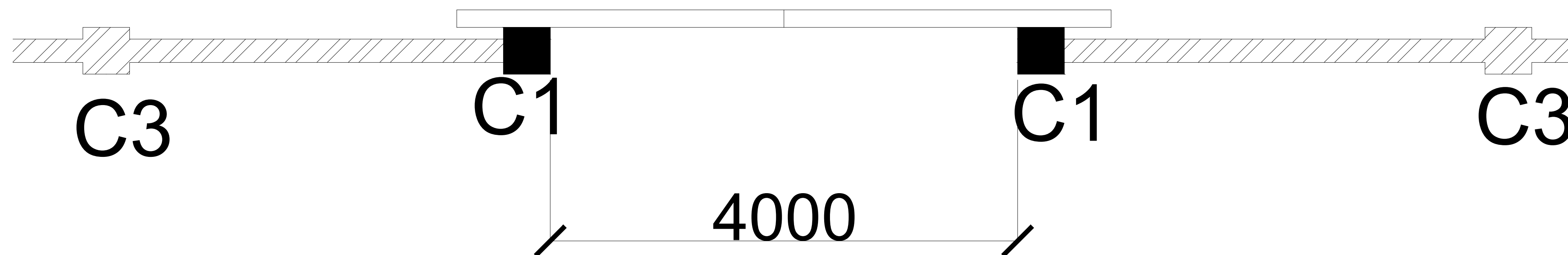
PROPOSED BOUNDARY WALL (100X80M)

Drawing Title			
BOUNDARY WALL LAYOUT			
Designed By: H.A		Drawn by: H.A	
Checked: F.E & G.O		Approved: ----	
Sheet #: 2/8		Scale: AS SPECIFIED	
Date: 7 December 2023		Rev: 0	

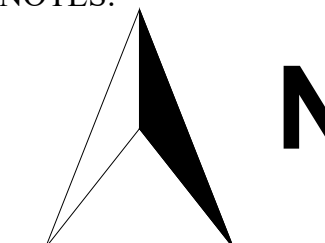




MAIN GATE





GENERAL NOTES:

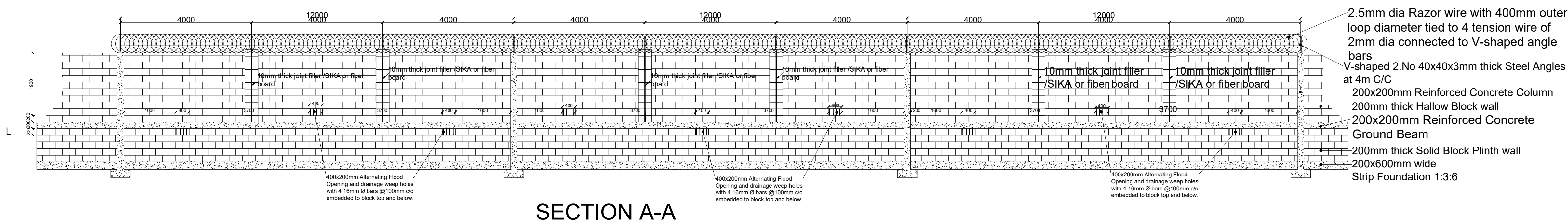
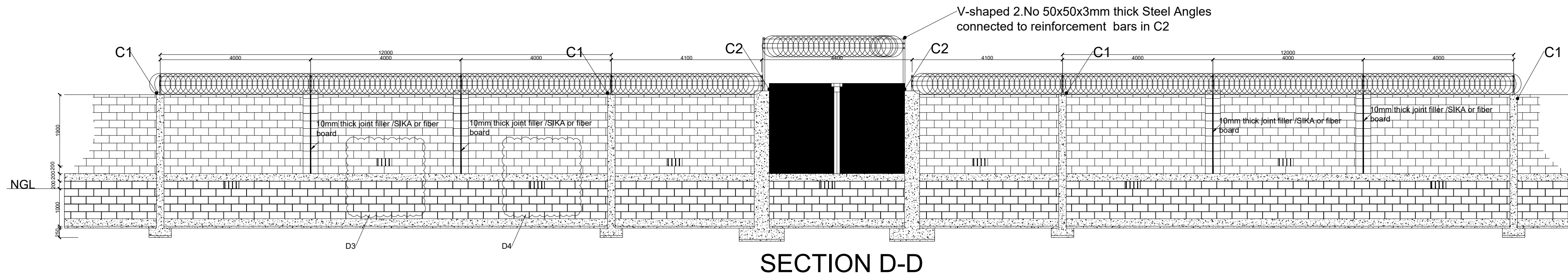


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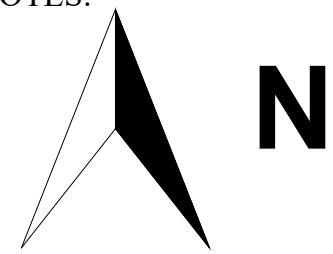
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Program	
 Enhancing Community Resilience and Local Governance Project	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED BOUNDARY WALL (100X80M)	
Drawing Title	
MAIN GATE AND COLUMN-COLUMN SPACING	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 3/8	Scale: 1:50
Date: 7 December 2023	Rev: 0





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Program	
 Enhancing Community Resilience and Local Governance Project	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED BOUNDARY WALL (100X80M)	
Drawing Tittle	
SECTIONS	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: -----
Sheet #: 4/8	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0

STRUCTURAL NOTES:

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- II) Stone masonry foundation shall be placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m2. . The top 500 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 stone masonry 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 floor slab)

B) Concrete reinforcement bar

Grade 460 (Characteristics yield strength of $f_yk = 460$ 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: 25mm
- Columns: 38mm
- All substructure (below the ground level): 50mm

❖ Protection of steel work



- Surface preparation by blast cleaning, pickling process or where approved by wire brushing

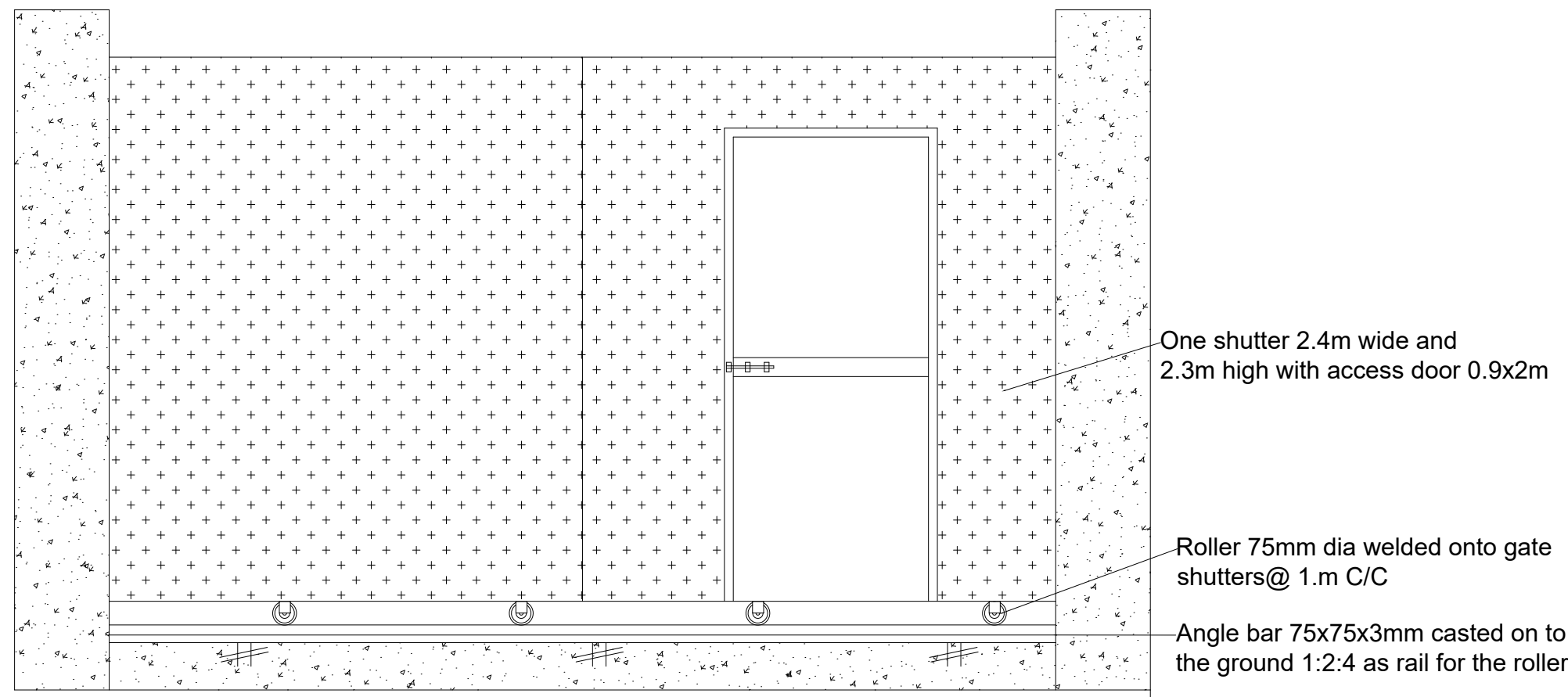
GENERAL NOTES:



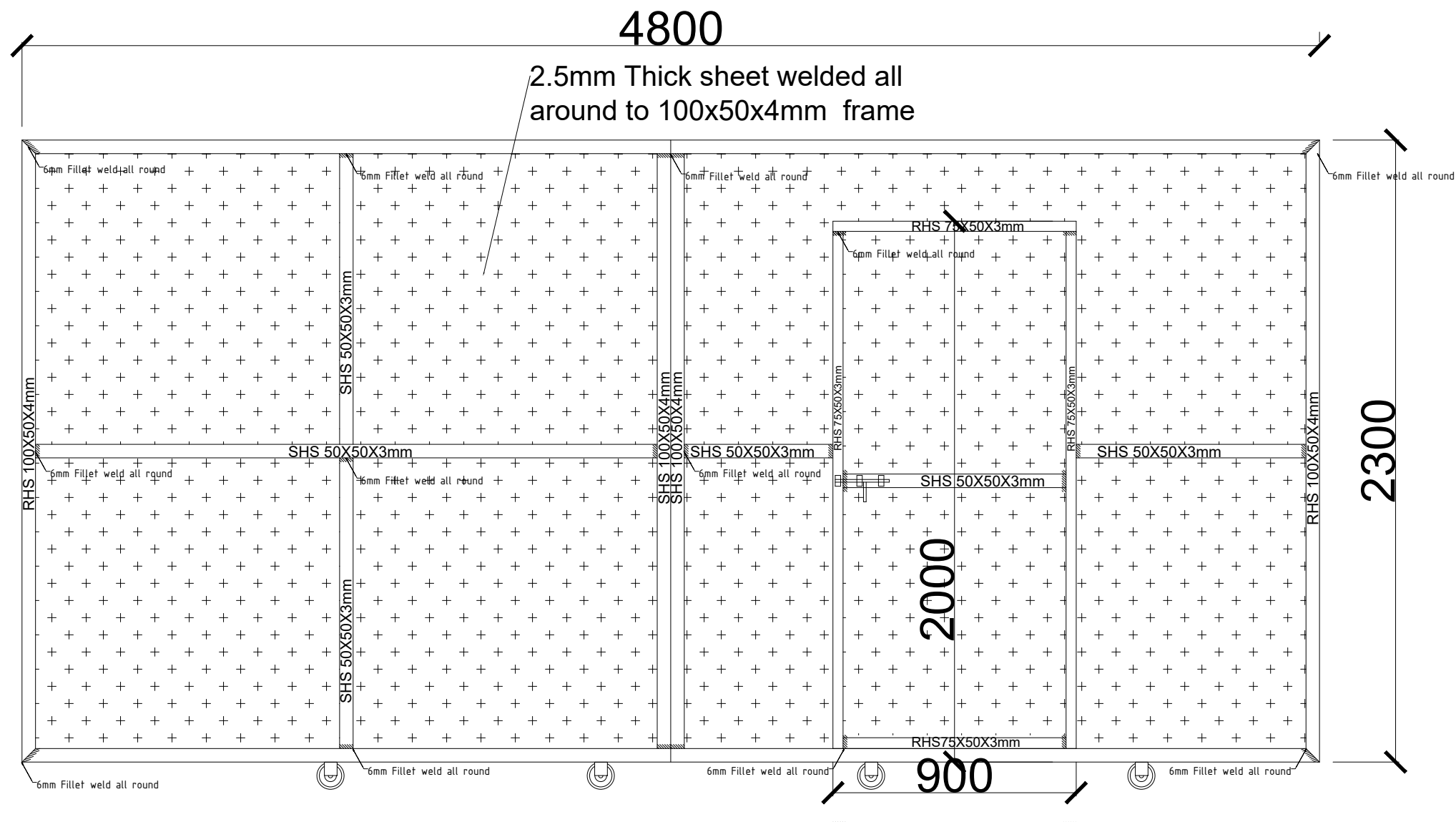
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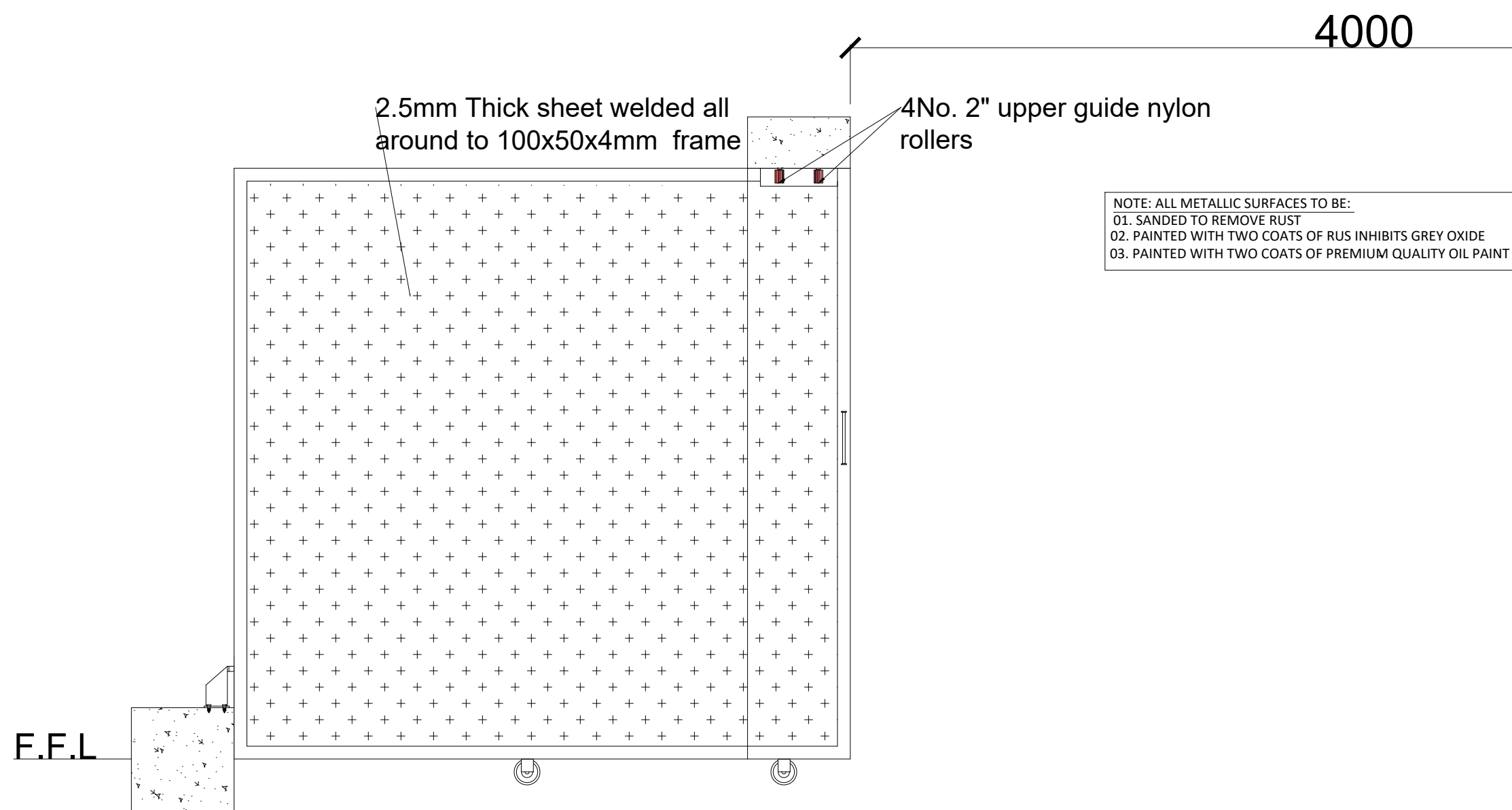
Program	
 Enhancing Community Resilience and Local Governance Project	
Client:	
GOVERNMENT OF SOUTH SUDAN	
Implemented By:	
	
Project:	
PROPOSED BOUNDARY WALL (100X80M)	
Drawing Title	
MAIN GATE DETAILS	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 5/8	Scale: AS SPECIFIED
Date: 7 December 2023	Rev: 0



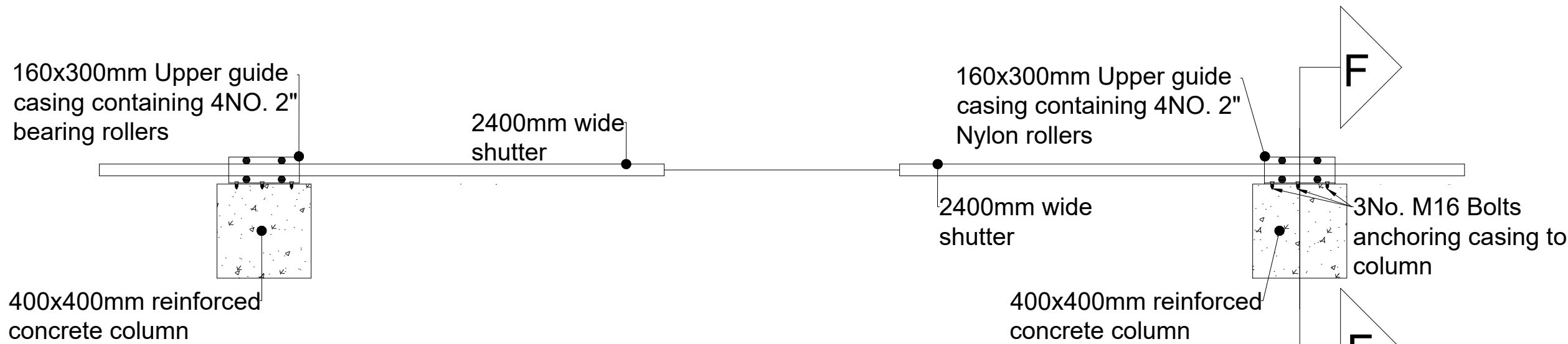
Main Gate
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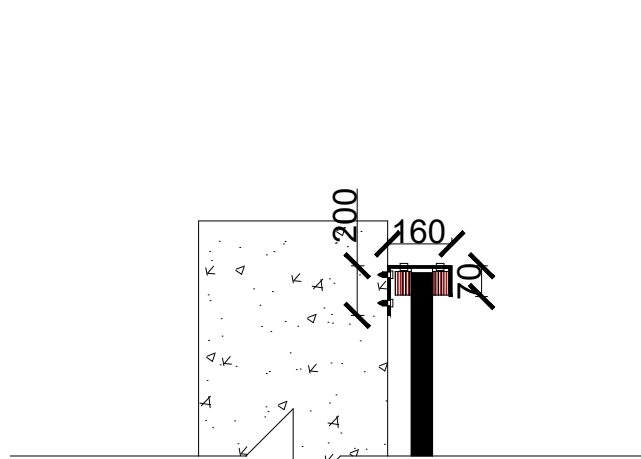
Main Gate Front View
Scale 1:20



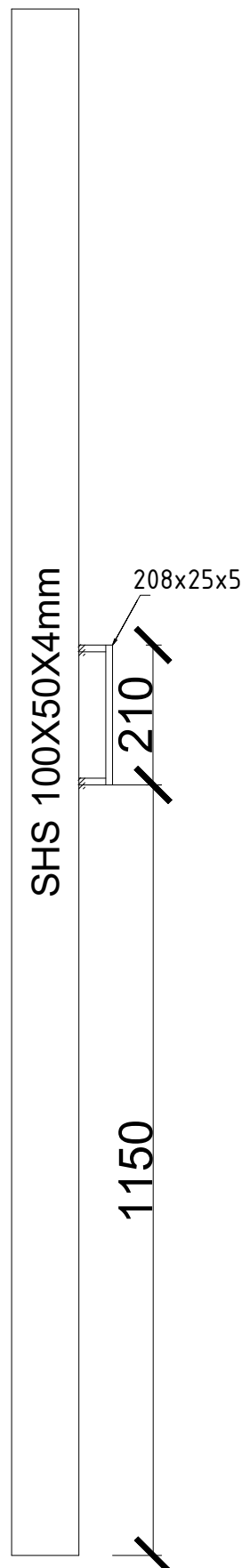
Main Gate Back View
Scale 1:40



Gate Plan
Scale: 1:20

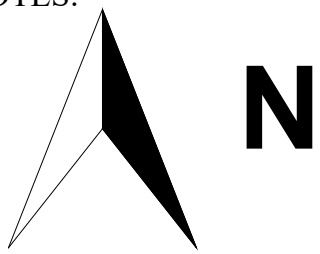


Section F-F
Scale: 1:16



HANDLE BAR
Scale 1:10

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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

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Program



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Resilience and Local
Governance Project

Client:

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Implemented By:



Project:

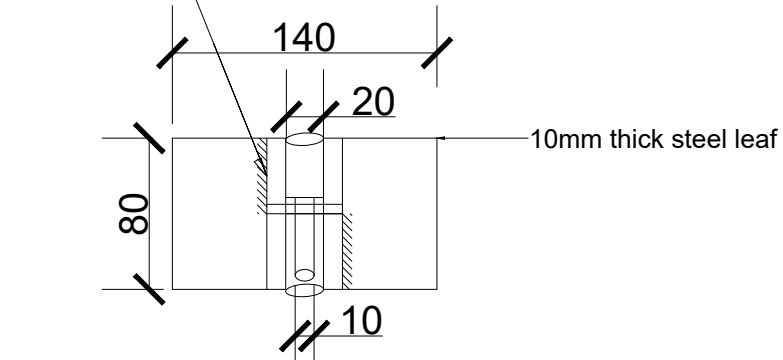
PROPOSED BOUNDARY WALL (100x80M)

Drawing Title

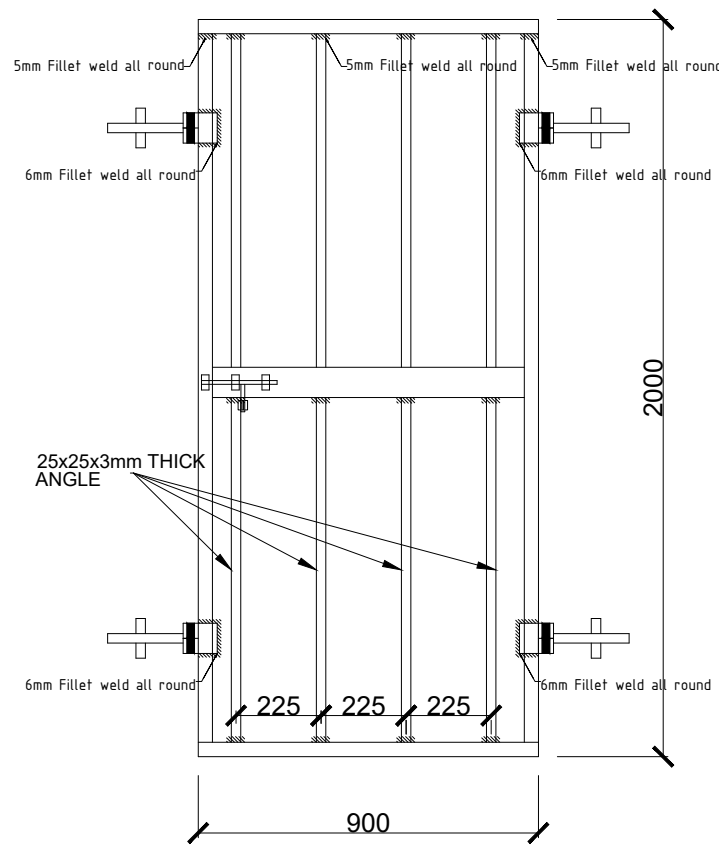
MAIN GATE DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 6/8	Scale: AS SPECIFIED
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6mm Fillet weld all round



TYPICAL HINGE
SCALE 1:4



SIDE ENTRANCE DOOR
Scale: 1:20



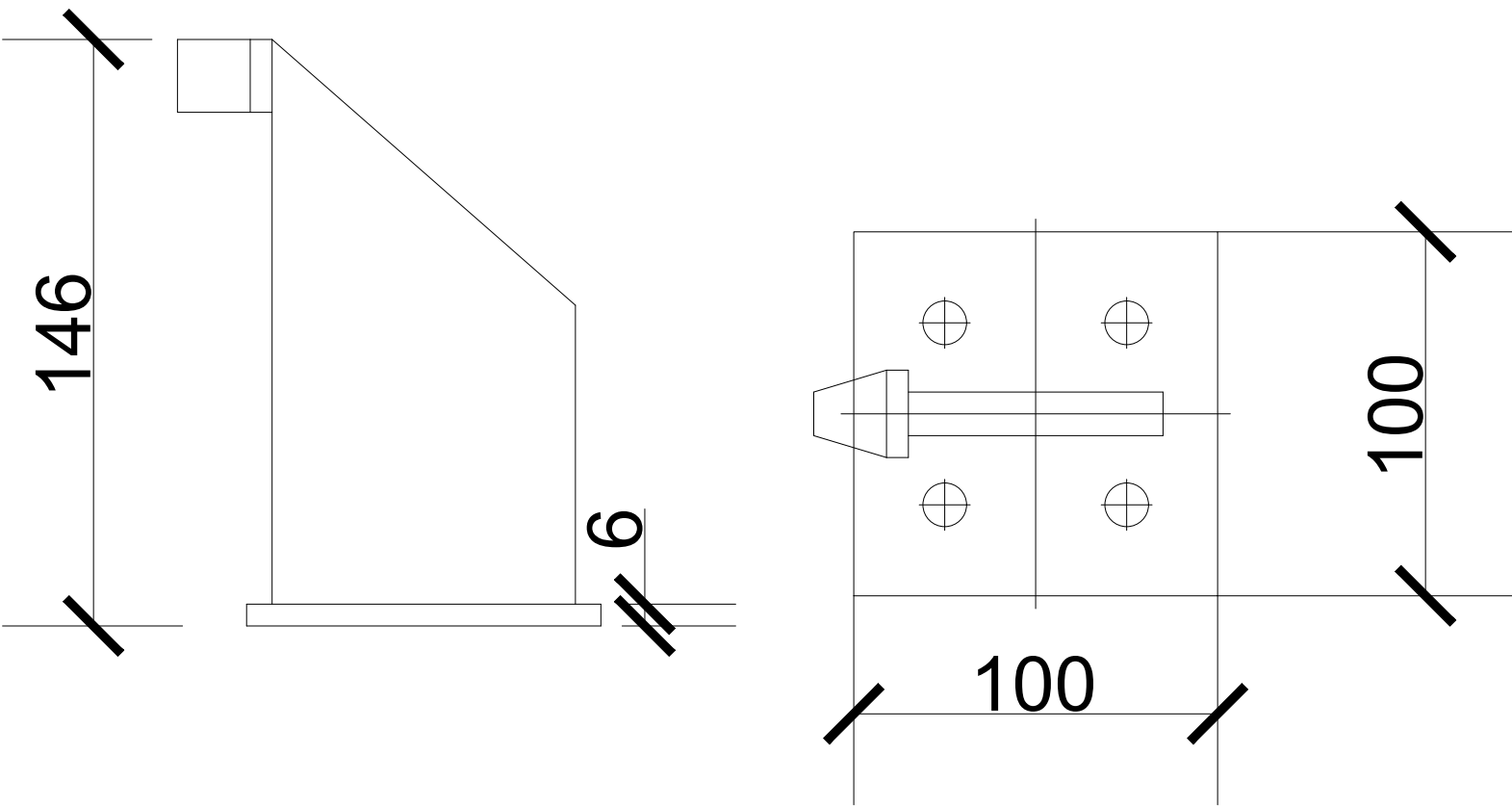
UPPER GUIDE ROLLER



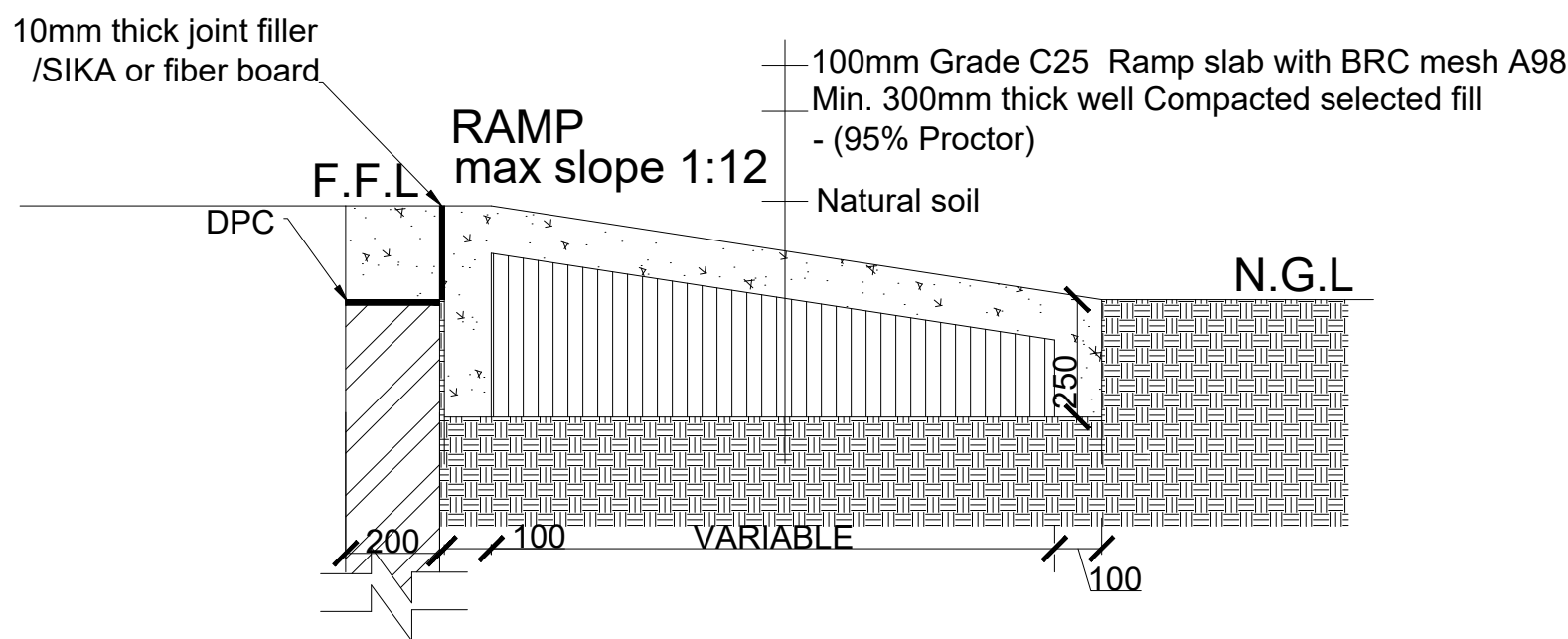
TRACK ROLLER



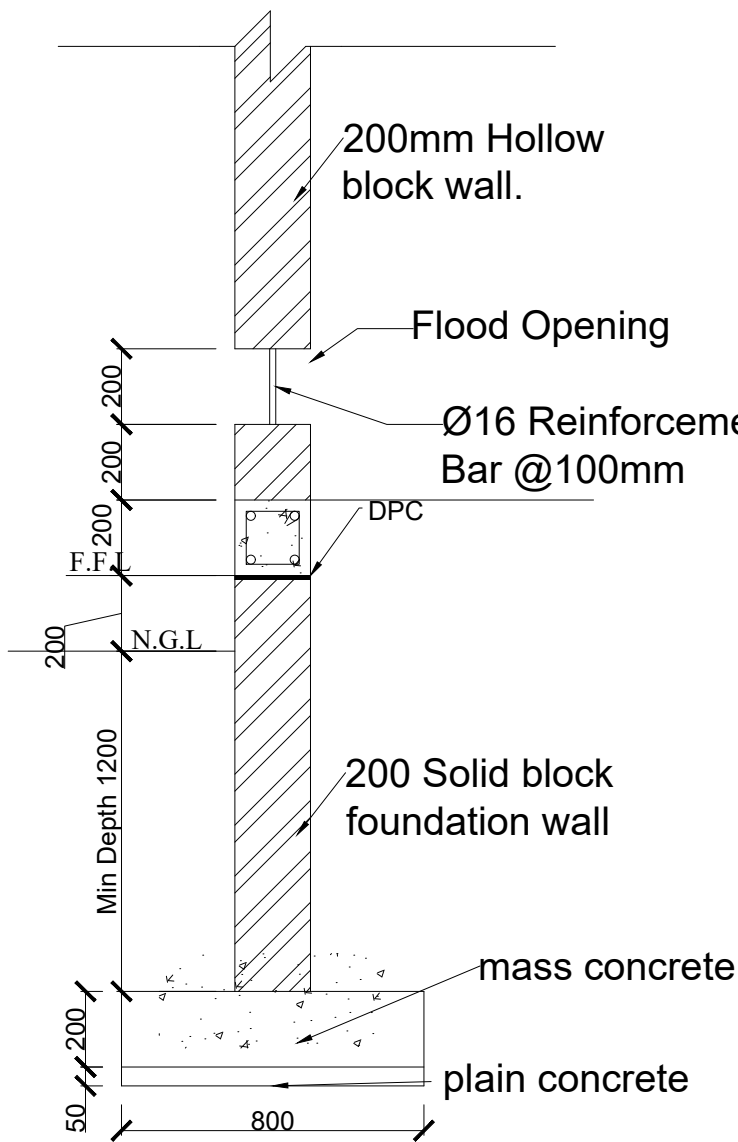
STOPPER



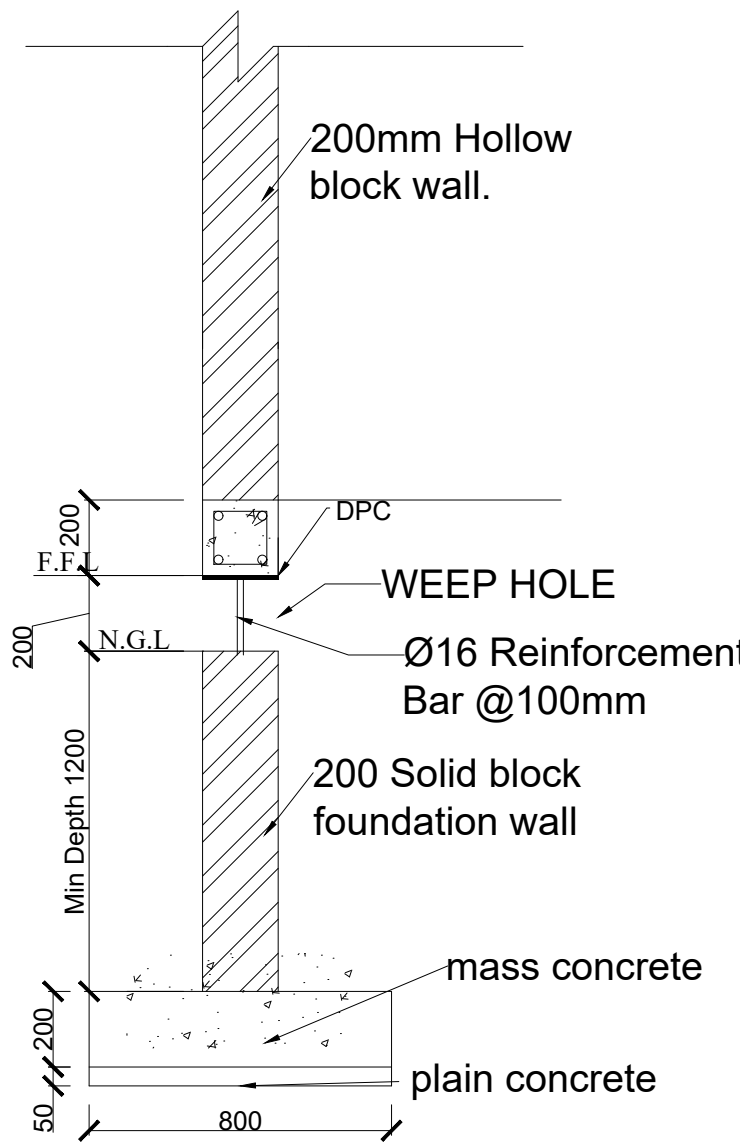
TYPICAL STOPPER
SCALE 1:2



SECTION E-E
Scale 1:16



DETAIL 3
Scale 1:20



DETAIL 4
Scale 1:20

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Client:

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Implemented By:



Project:

PROPOSED BOUNDARY WALL (100X80M)

Drawing Title

RAMP, FLOOD OPENING AND ACCESSORY DETAIL

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

Approved: ----

Sheet #:

7/8

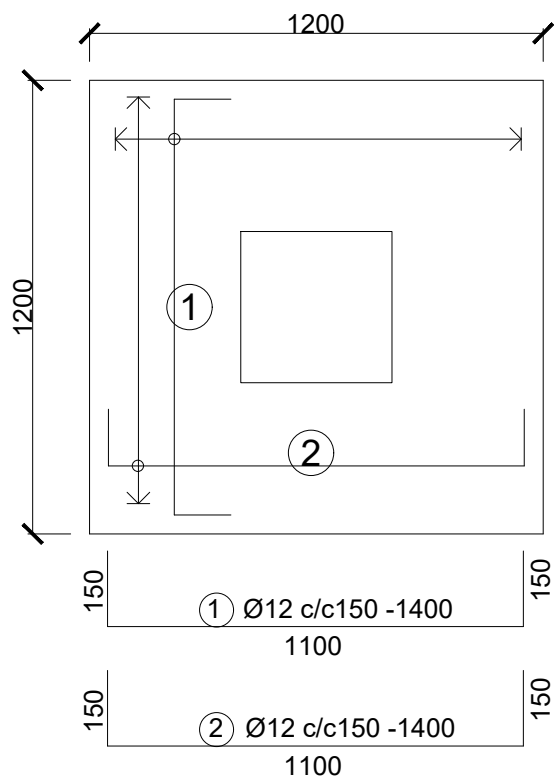
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Date:

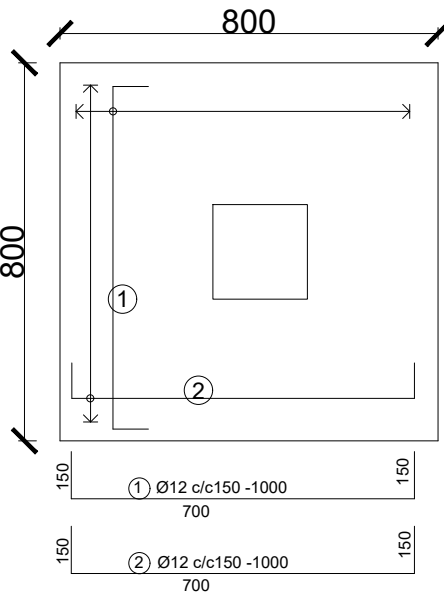
7 December 2023

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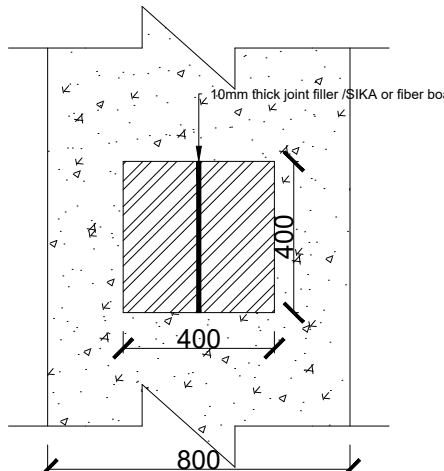
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C1 - Footing Details
Scale: 1:20

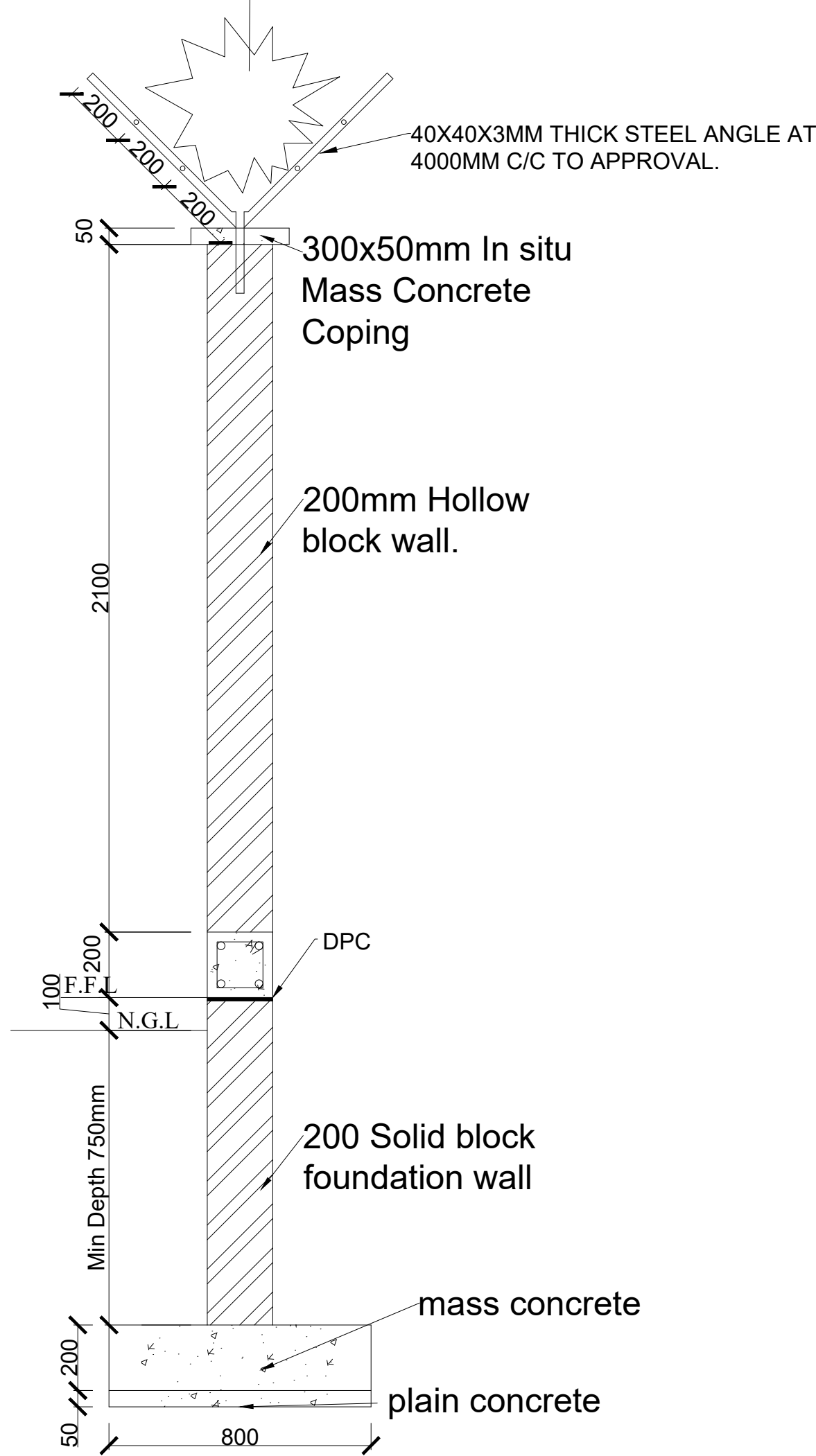


C2 - Footing Details
Scale: 1:20

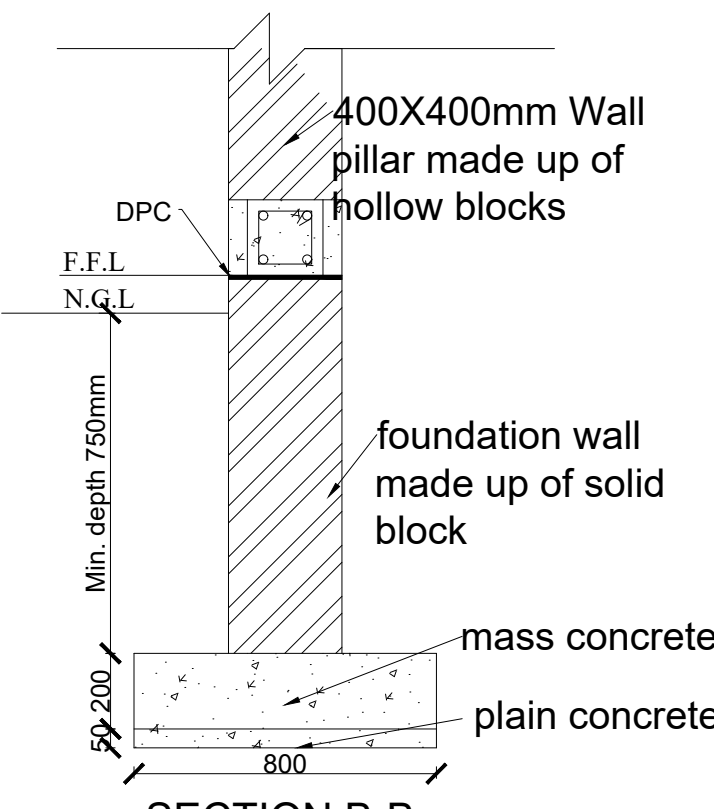


C3 PLAN VIEW
Scale: 1:20

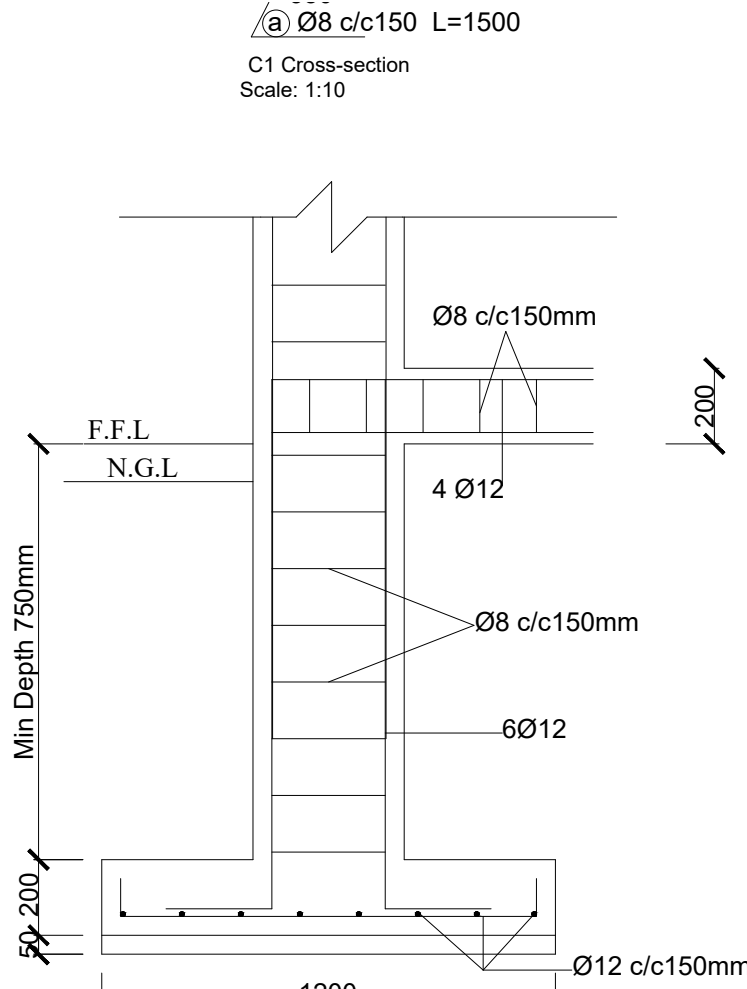
ONE ROLE OF RAZOR WIRE
TIED TO 4 TENSION WIRES TO
APPROVAL.



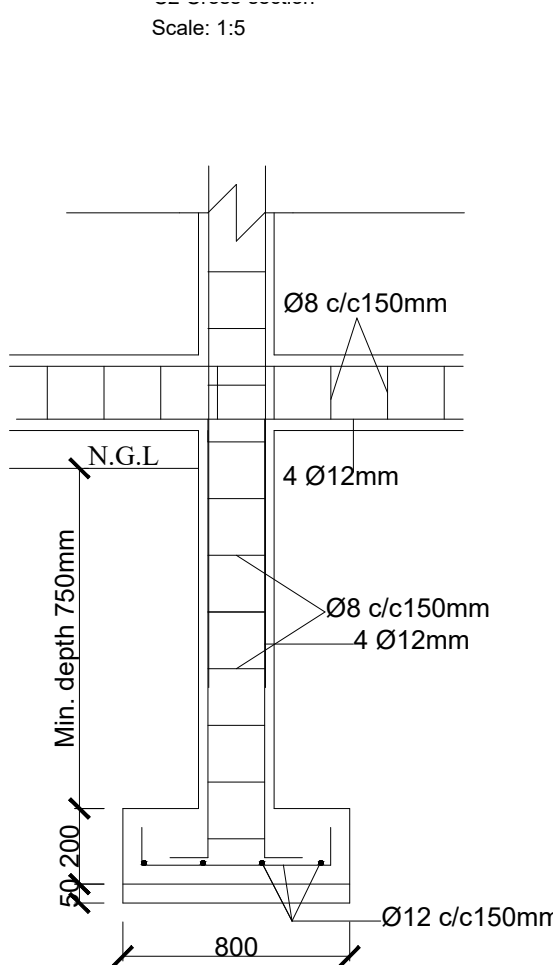
SECTION C-C
Scale: 1:16



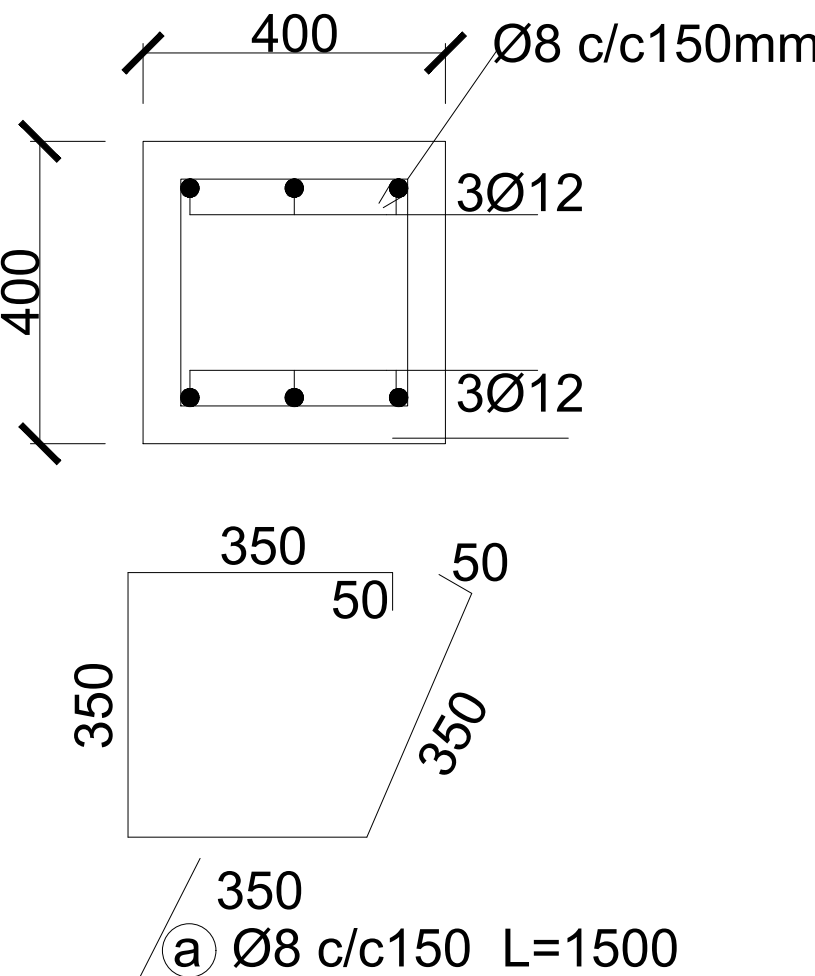
SECTION B-B
Scale: 1:20



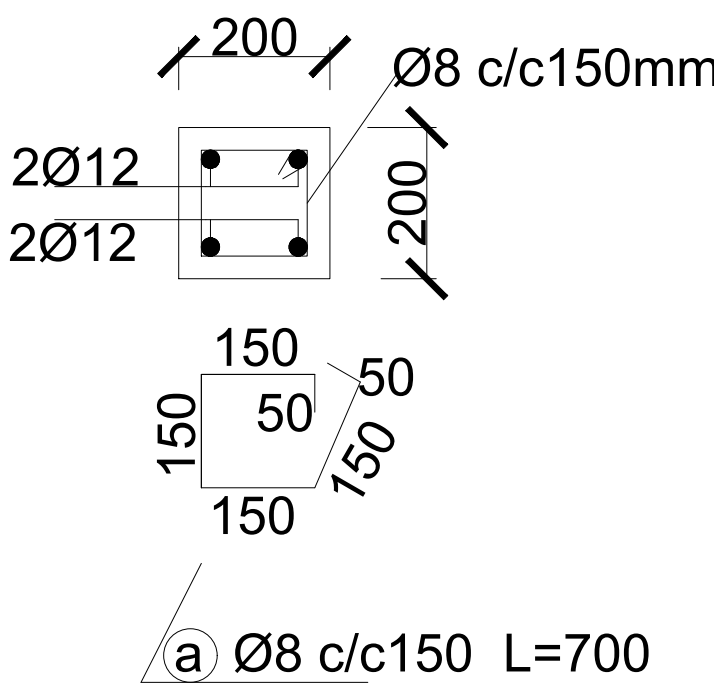
Column C1 Details
Scale: 1:20



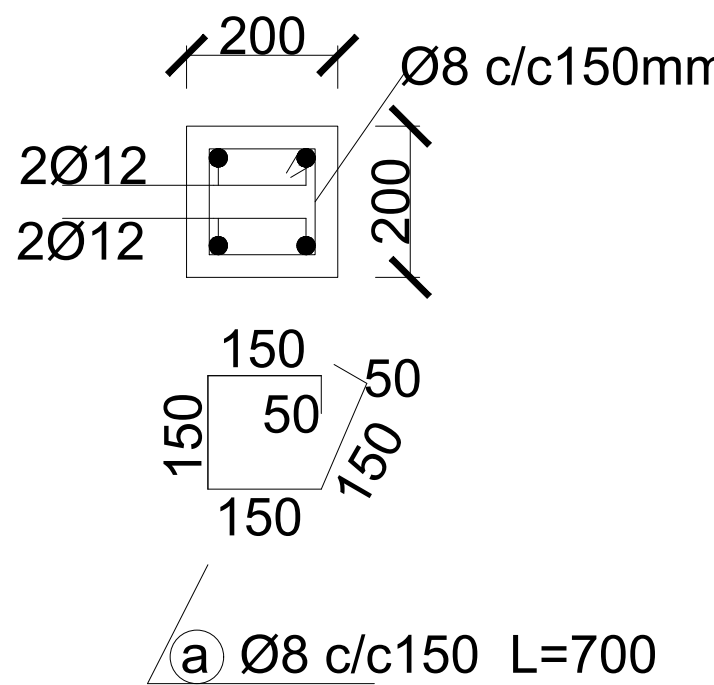
Column C2 Details
Scale: 1:20



C1 Cross-section
Scale: 1:10



C2 Cross-section
Scale: 1:5



Beam Cross-section
Scale: 1:5

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PROPOSED BOUNDARY WALL (100X80M)

Drawing Title

STRUCTURAL DETAIL

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Sheet #: 8/8	Scale: AS SPECIFIED
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