

STRUCTURAL DRAWINGS INDEX

MINISTRY OF FOREIGN AFFAIRS -
ITALIAN AGENCY FOR DEVELOPMENT COOPERATION
REPUBLIC OF ITALY

EXPANSION AND STRENGTHENING OF KIDANE
MIHRET CATHOLIC GENERAL HOSPITAL

SALESIAN SISTERS ADWA

DRAWING INDEX

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Structural Notes:

- i) Building shall be founded on isolated footings having a minimum depth of 2000mm from the floor finish level with bottom of excavation compacted prior to laying the foundation.
- ii) Foundation shall be placed on the natural normal soil and achieve a minimum bearing capacity of 250 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
 - C25/30 for columns, floor slab and beams; (for office building)
 - C20/25 for columns, floor slab and beams; (for storage and ambulance depot building)
 - C25/30 for reinforced concrete retaining wall; (for storage and ambulance depot building)
 - fck (MPa) = 20 (Cylinder characteristics strength);
 - fck, cube (MPa) = 25 (Cylinder characteristics strength);

b) Concrete reinforcement bar

All steel reinforcement bars shall comply with the requirements of ES EN 1992:2105 Class B.

 - Characteristics yield strength of fyk = 460 MPa)
 - Minimum value of "k = f(t /fy)k" > 1.08)
 - Characteristics Tensile strength of ftk > 500 MPa)
 - Characteristics strain at maximum force > 5%)

c) Steel hollow section for roofing system , verandah column and plates
 - Grade- C : Tensile Strength = 415 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
 - Reinforced concrete retaining wall; 50mm
 - 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.

vi) Steel Truss manufacturing inspection, by visual examination, must cover most aspects: bending, groove preparation, alignment before and after welding, welding process, penetration, tolerances for circumference, straightness and circularity, - double sided welds, heat treatment, small diameter welds around the nozzles, detecting of undercut, excessive convexity, distortions, etc. Defects acceptance criteria shall be in accordance with ES ISO 5817:2014
- Vii) Protection of soil from collapsing :
 - The contractor shall secure side walls from collapse during excavation of depth exceeding of 1.0m. It shall provide steel struts and/or steel panels properly secured and well anchored in the firm soil to provide lateral stability . the techniques and methodology to be provided to the site supervisor's approval.

Viii) Construction joint for concrete :
 - Whenever concrete casting is discontinued, a wrinkled concrete joint, moistened just before the next concrete, which will have to be provided to ensure continuity.
 - Construction joints shall get prior approval by the site supervisor.

ix) Site Welding :
 - Site welding should be carried out by qualified specialist with proof of training and experience. A method statement for site welding shall be prepared and submitted to the UNOPS Engineer for approval.
 - Use 3mm fillet weld throat thickness.The welding shall have a minimum ultimate tensile strength of 415Mpa
 - Welding shall be in accordance with EN 1993-1-8:2005. Electrodes type shall be E6010 OR E6011.

x) Shop Drawings for Steel Structure:
 - Shop Drawings for the structural parts of the steel truss and purlins shall be prepared by the Contractor before commencement and submitted to the UNOPS Site Engineer for approval.
 - The shop drawing shall clearly indicate detail of fabrication including plates and connections, welding, bolts, cutting dimensions and angles including truss arrangements & the method statement for assembling and mounting.

Xi) Anti-Termite Treatment :

Treat surface of hardcore, sides and bottom of excavation with "Aldrex 48" or other equivalent anti-termite solution in accordance with manufacturers instruction and approval of the UNOPS site Engineer.

Xii) Stiffeners & Lintel Details for HCB Masonry wall:

-VERTICAL & HORIZONTAL RC STIFFENERS FOR ALL HCB WALLS SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAILS GIVEN BELOW :

RC MEMBERS	REINFORCEMENT DETAILS	
	200 mm HCB WALL	
VERTICAL STIFFENERS	@ 4000 C/C linear length WITH 4 Ø10 & R6-150 C/C LINKS @ End & Intersection of Walls and Openings of Door and Windows	
HORIZONTAL STIFFENERS	@ 3000 C/C Vertical length with 4Ø10 & R6-200 C/C LINKS	

SCHEDULE OF LINTELS

LOCATION	MAIN R/F	STIRRUPS	SECTION
OPENINGS UPTO 1m FOR 200mm WALLS	2Ø12	--	
OPENINGS 1.0m TO 1.8m FOR 200mm WALLS	4Ø12	R6-150 C/C	
OPENINGS 1.8m TO 3m FOR 200mm WALLS	4Ø12	R6-150 C/C	

Xiii) Backfill Compaction

Backfill under hardcore and around foundations shall be compacted to a minimum of 95% standard maximum density (ASTM 698) at the optimum moisture content to the approval of the UNOPS site Engineer.
- GENERAL NOTES:
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- KEY PLAN
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| Program: | | | Implemented By: | | | | | |
| EXPANSION AND STRENGTHENING OF
KIDANE MIHRET CATHOLIC GENERAL
HOSPITAL | | | UNOPS - ETMCO | | | | | |
| Project Name: | | | Design: | | | | | |
| EXPANSION AND STRENGTHENING OF
KIDANE MIHRET CATHOLIC GENERAL
HOSPITAL | | | UNOPS-ETMCO
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| Drawing Title: | | | | | | | | |
| (ADMINISTRATION BUILDING) | | | | | | | | |
| FLOOR AND ROOF PLANS | | | | | | | | |
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| FA | AG | ST | 01 | 29 | R0 | | | |
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Structural Notes:

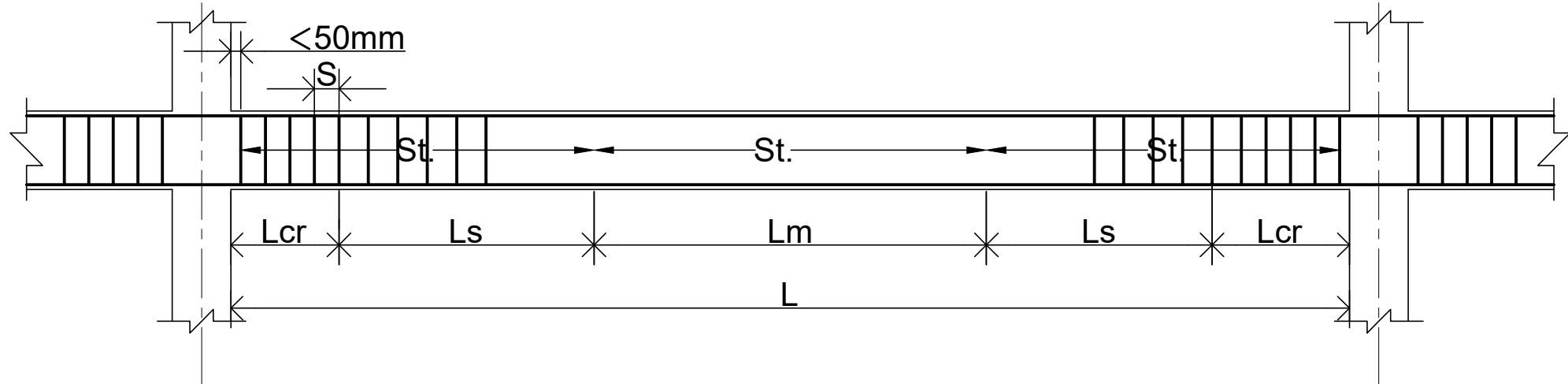
XIV) Structural & Non-Structural Members

- a) Load Bearing and Primary Seismic Members:
- Reinforced Concrete Columns;
 - Reinforced Concrete ground and top Ties Beams;
- b) Load Bearing and Non Seismic Members
- Stone Masonry Walls below Grade;
- c) Non Load Bearing Members
- Internal and External Hollow Block Walls
- d) Structural Bracings
- Vertical and Horizontal stiffeners;
 - Lintels on door and window openings.

XV) Building Codes and Standard

- ES EN 1990:2015 - Basis of Structural Design
- ES EN 1991:2015 –Actions on structures
- ES EN 1992:2015 –Design of Concrete Structures;
- ES EN 1993:2015 –Design of Steel Structures;
- ES EN 1998:2015 –Design of Structures for Earthquake Resistance.

XVI) Confinement Details for Beams



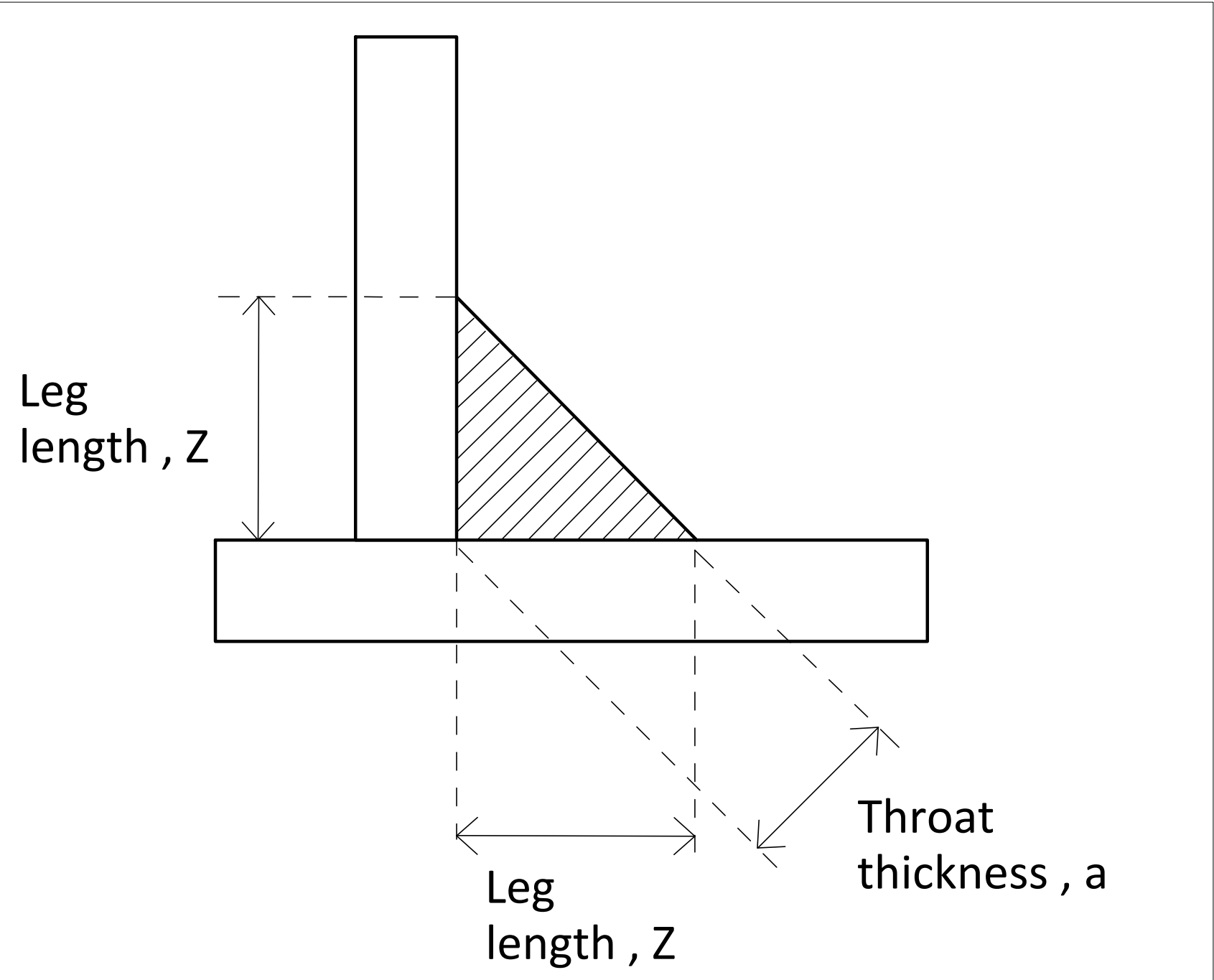
Lcr–Critical Length = Depth of Beam = 400mm, 300mm

S = Hoop spacing Arrangement= 100mm for beam depth of 400mm & 75mm for beams depth of 300mm

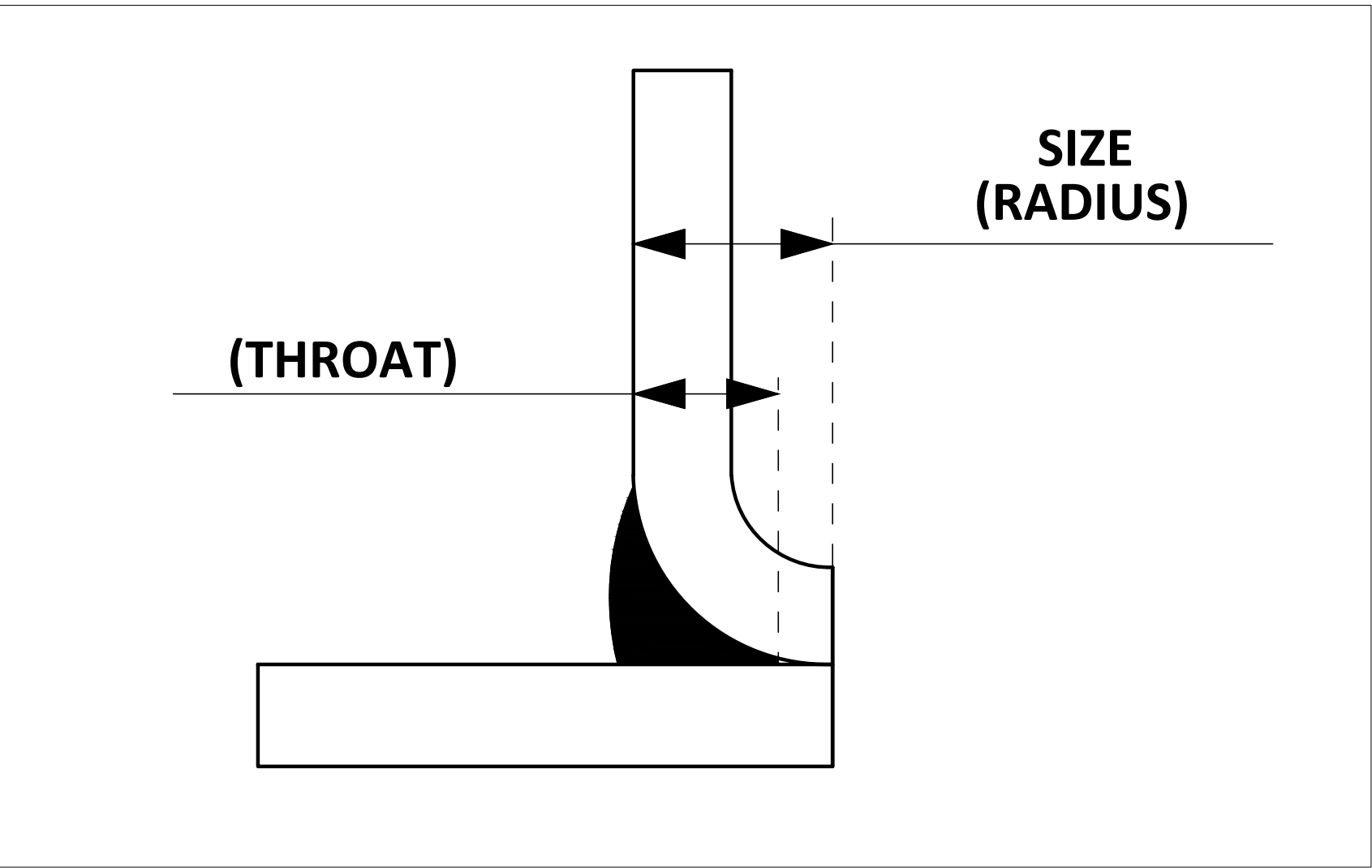
$L_s = \text{Support Length} = \frac{1}{4} L - L_{cr}$
S = detailed on drawing for the respective beam

$L_m = \text{Mid span Length} = \frac{1}{2} L$
S = detailed on drawing to the respective beam

XVII) Fillet Weld Versus Flare Bevel Weld –Throat thickness

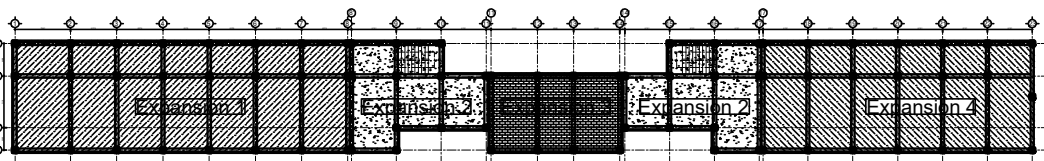


Fillet Weld



Flare Bevel Weld

GENERAL NOTES:



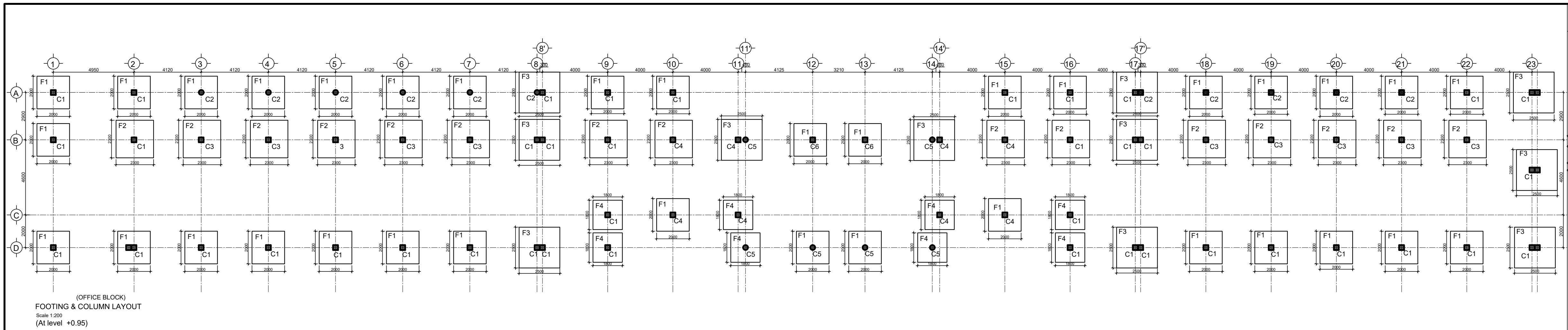
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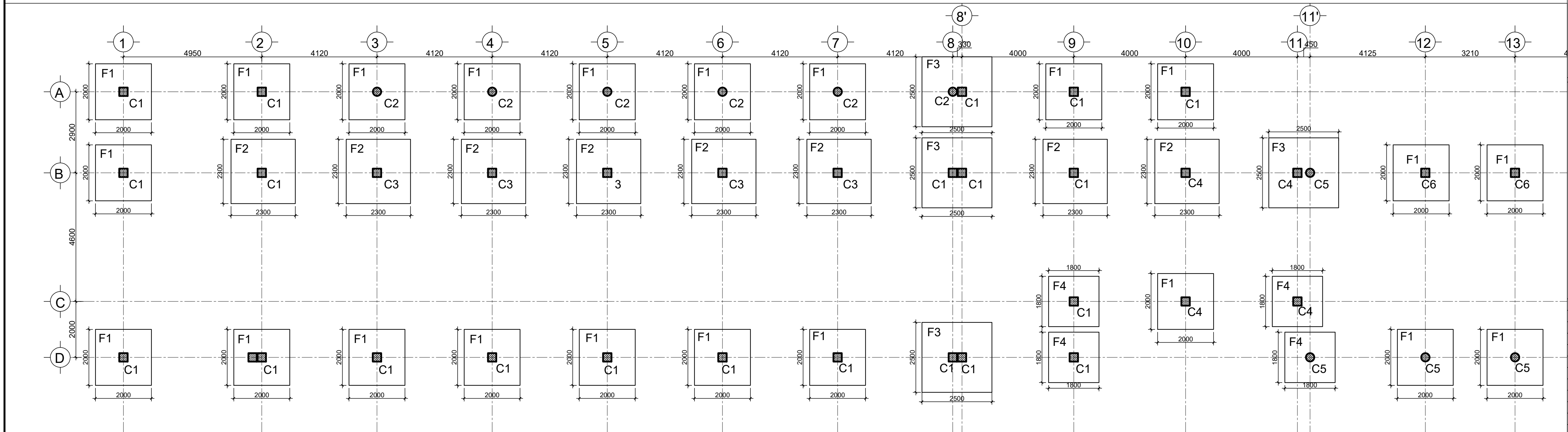
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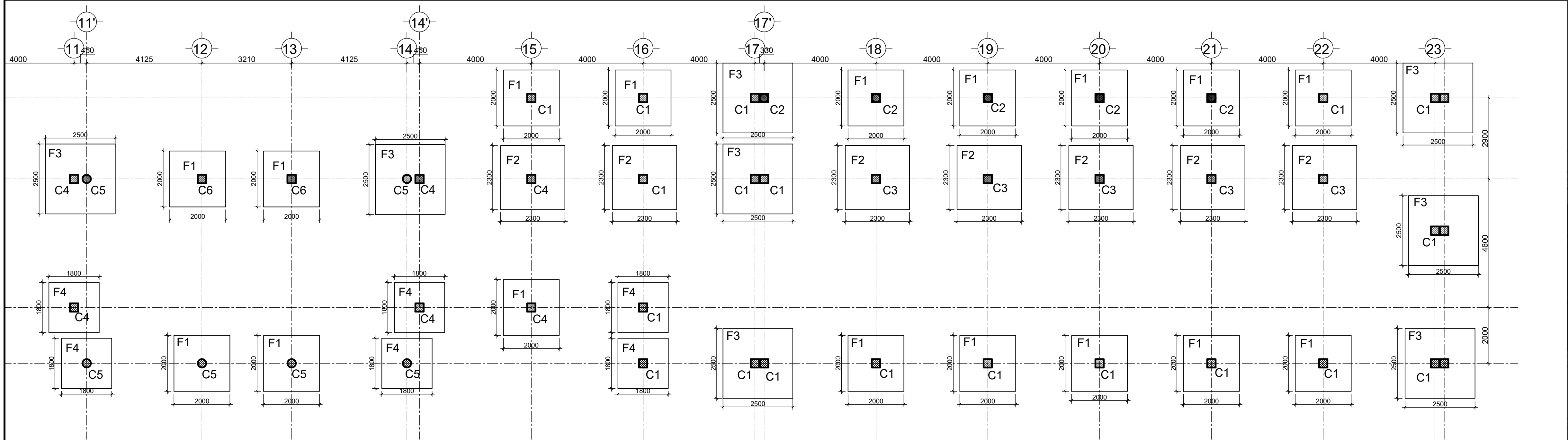
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(OFFICE BLOCK)
FOOTING & COLUMN LAYOUT
Scale 1:200
(At level +0.95)



FOOTING & COLUMN LAYOUT (Partial Layout)
Scale 1:100



FOOTING & COLUMN LAYOUT (Partial Layout)
Scale 1:100

GENERAL NOTES:

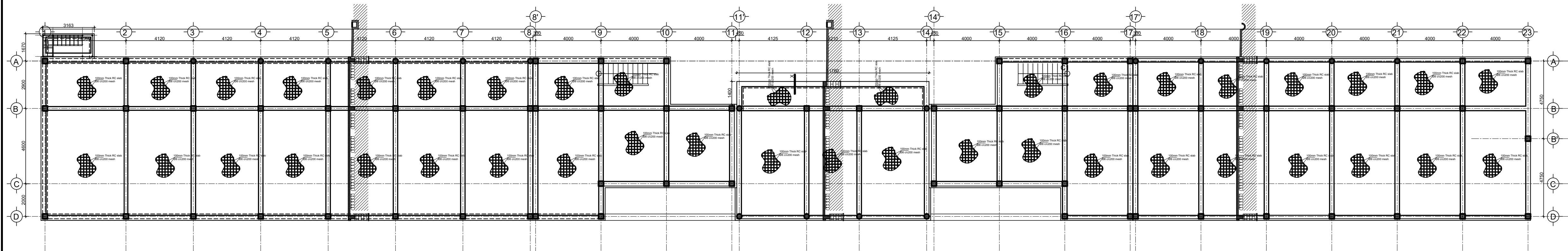
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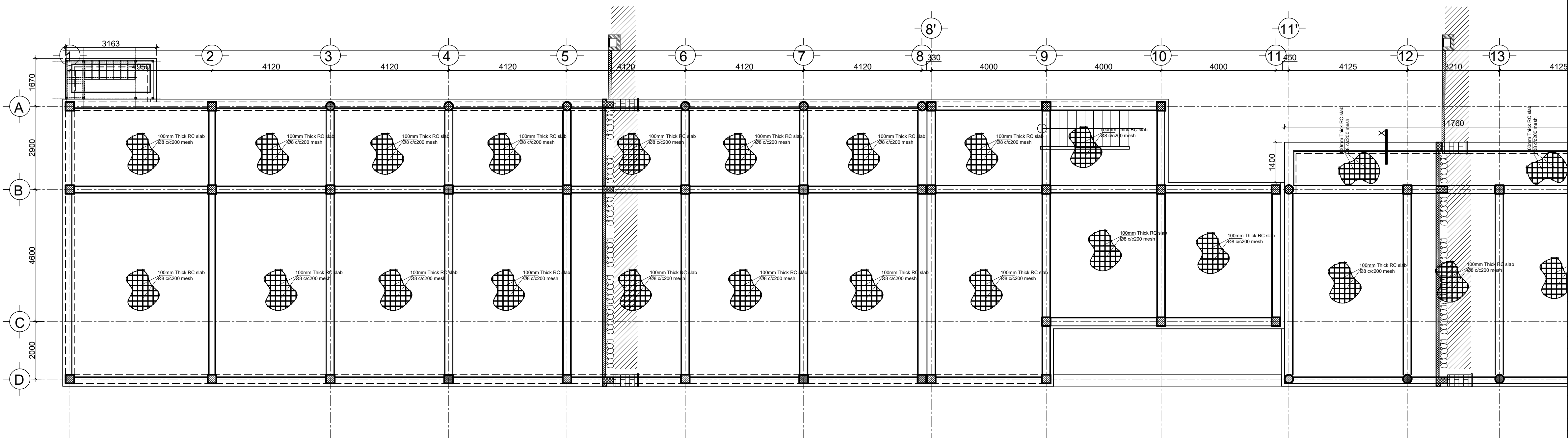
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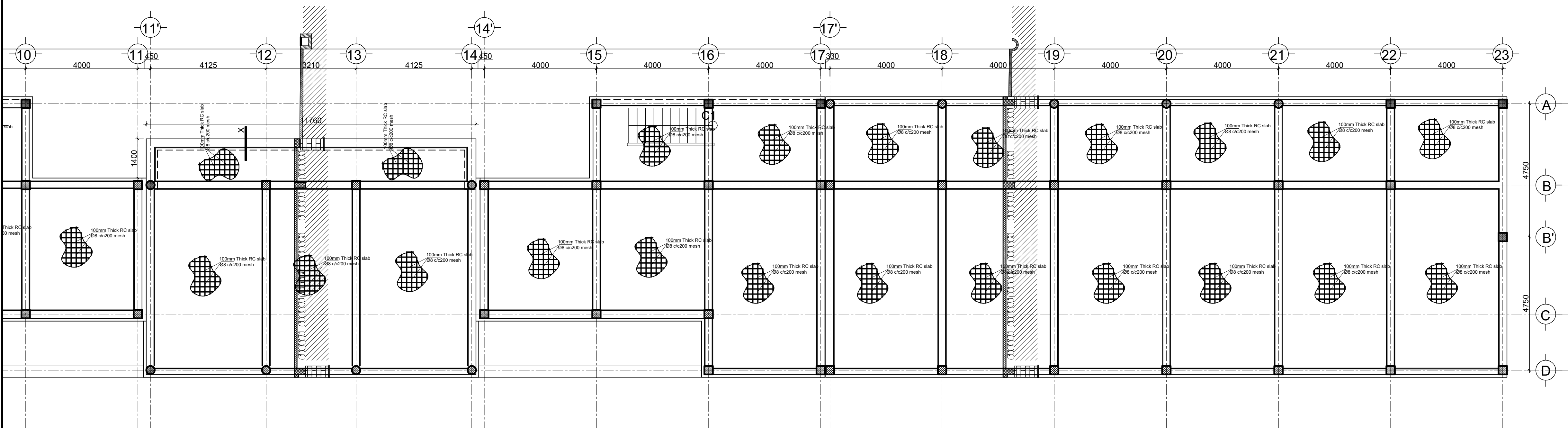
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GROUND FLOOR SLAB REINFORCEMENT PLAN , BEAM & COLUMN LAYOUT
Scale 1:200
(At level +3.85 Slab Thickness 100mm)

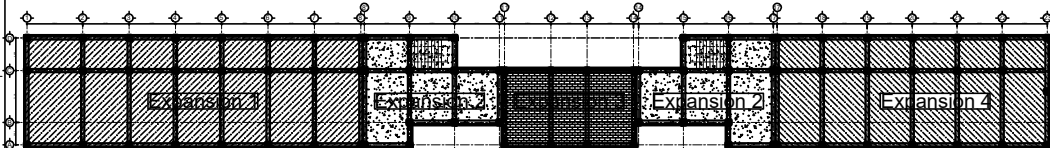


GROUND FLOOR SLAB REINFORCEMENT PLAN , BEAM & COLUMN LAYOUT (Partial Layout)
Scale 1:100



GROUND FLOOR SLAB REINFORCEMENT PLAN , BEAM & COLUMN LAYOUT (Partial Layout)
Scale 1:100

GENERAL NOTES:



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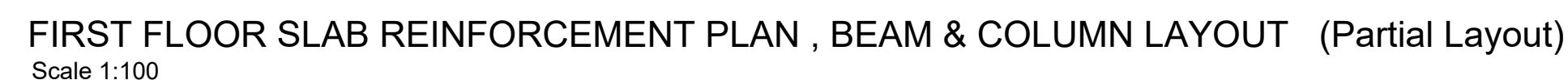
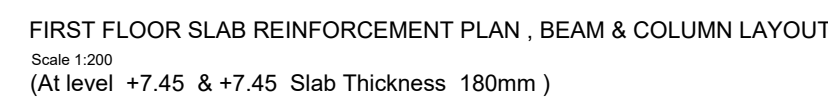
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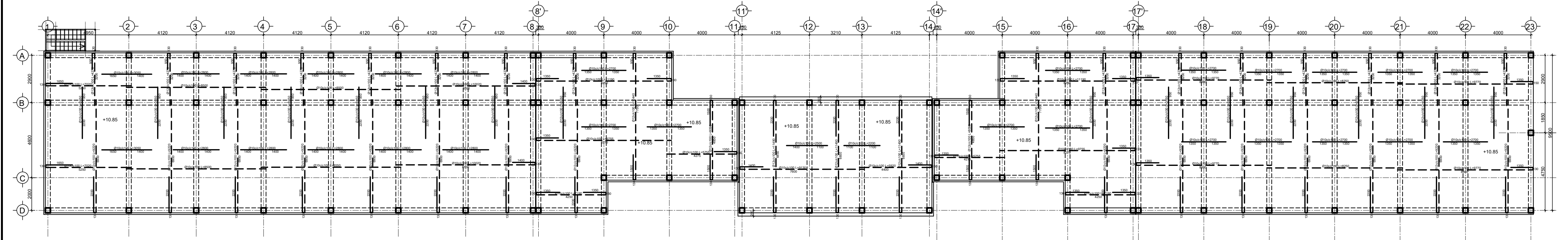
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(ADMINISTRATION BUILDING)
GROUND FLOOR SLAB REINFORCEMENT PLAN ,
BEAM & COLUMN LAYOUT

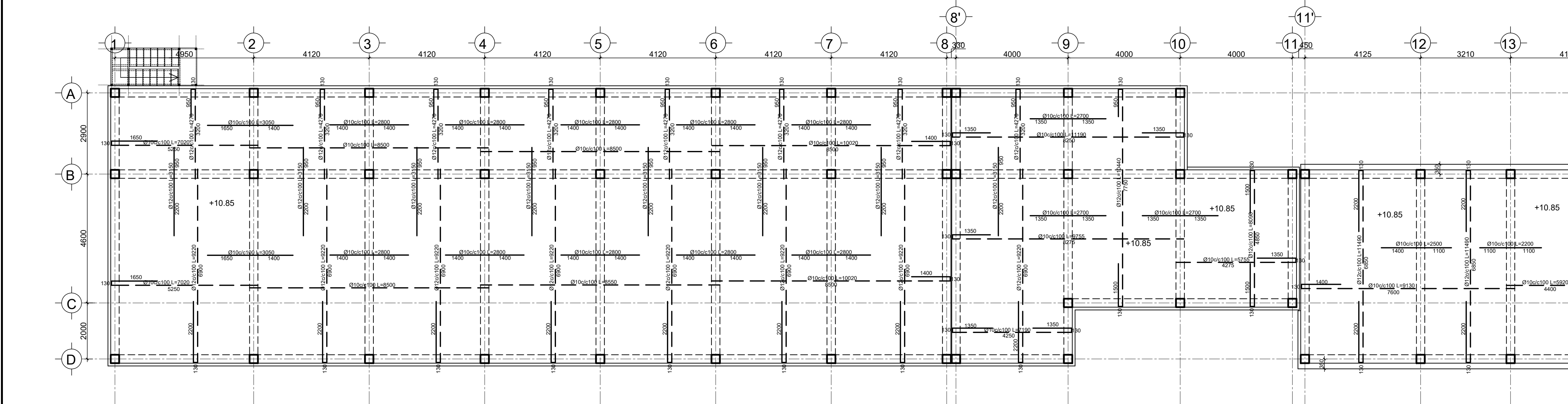
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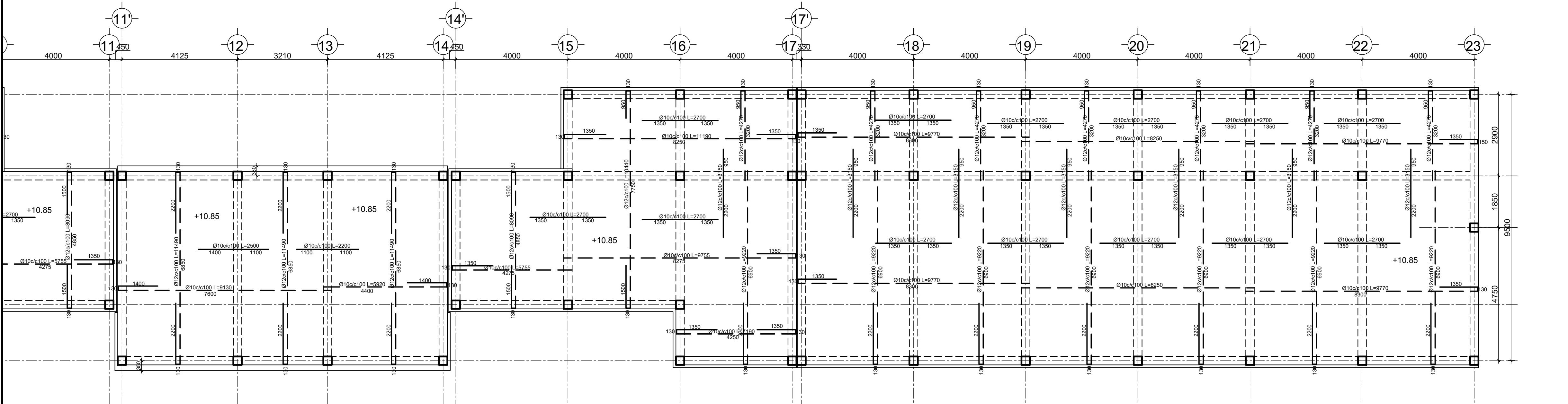
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ROOF SLAB REINFORCEMENT PLAN & BEAM LAYOUT
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(At level +10.85 Slab Thickness 180mm)

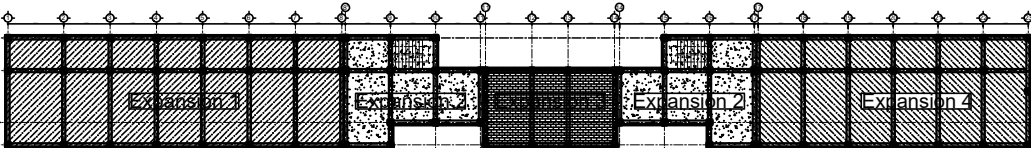


ROOF SLAB REINFORCEMENT PLAN & BEAM LAYOUT (Partial Layout)
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ROOF SLAB REINFORCEMENT PLAN & BEAM LAYOUT (Partial Layout)
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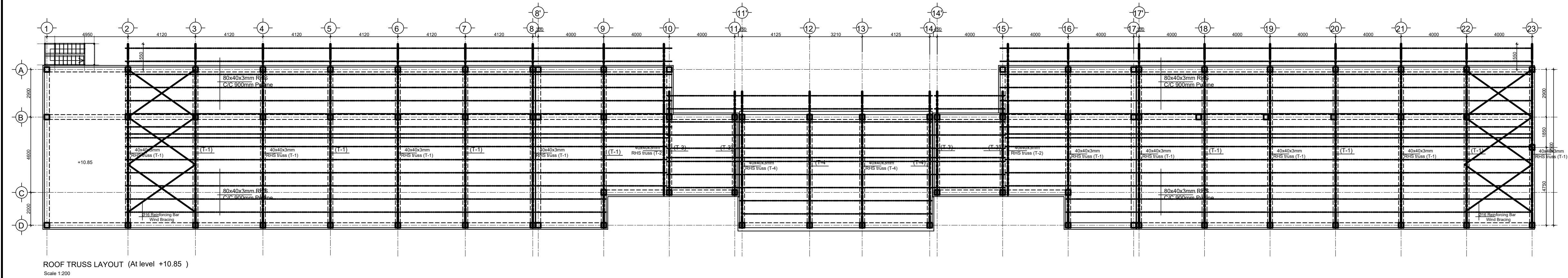
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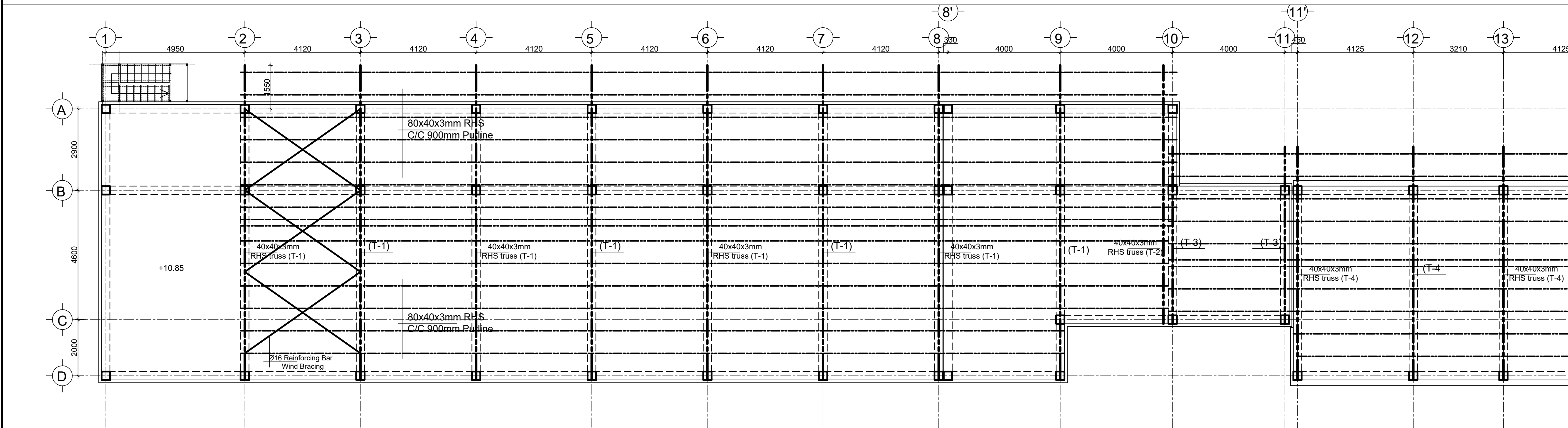
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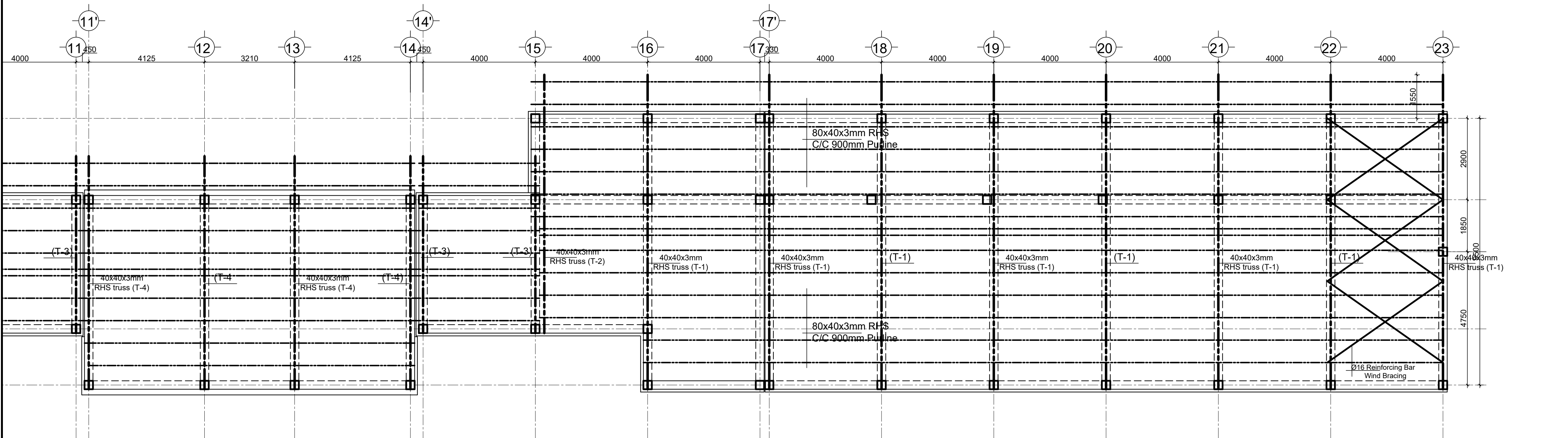
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ROOF TRUSS LAYOUT (At level +10.85)
Scale 1:200

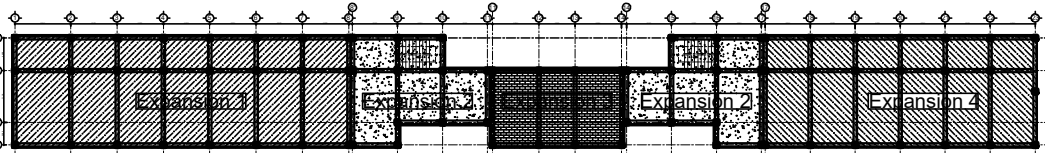


ROOF TRUSS LAYOUT (Partial Layout)
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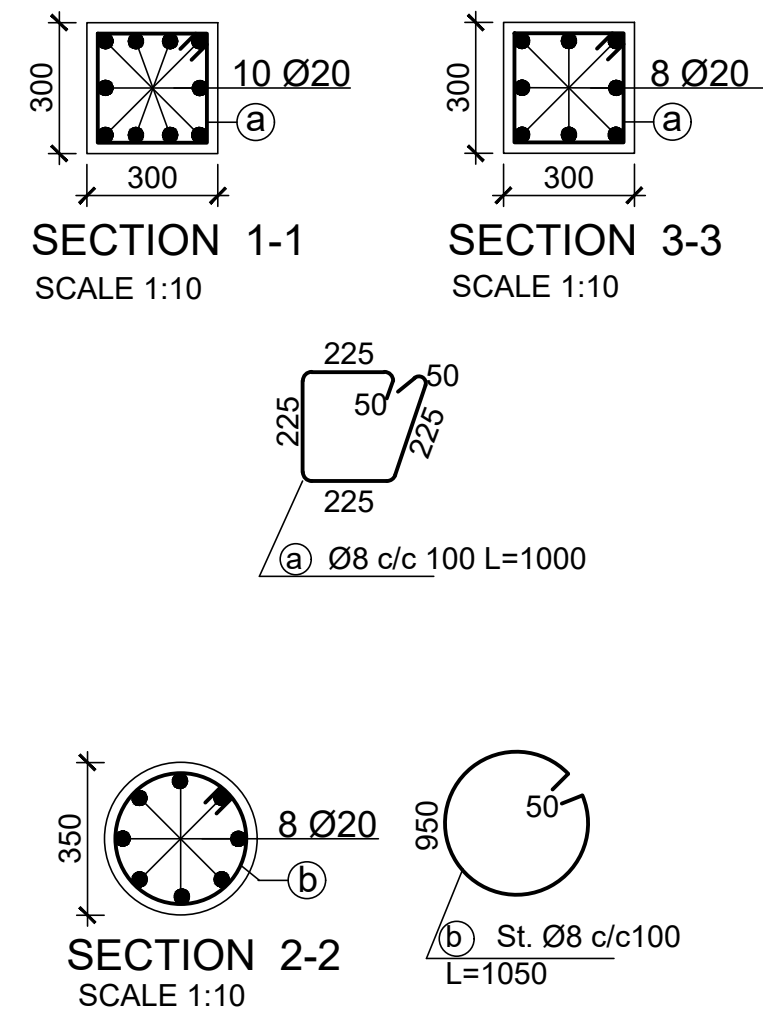
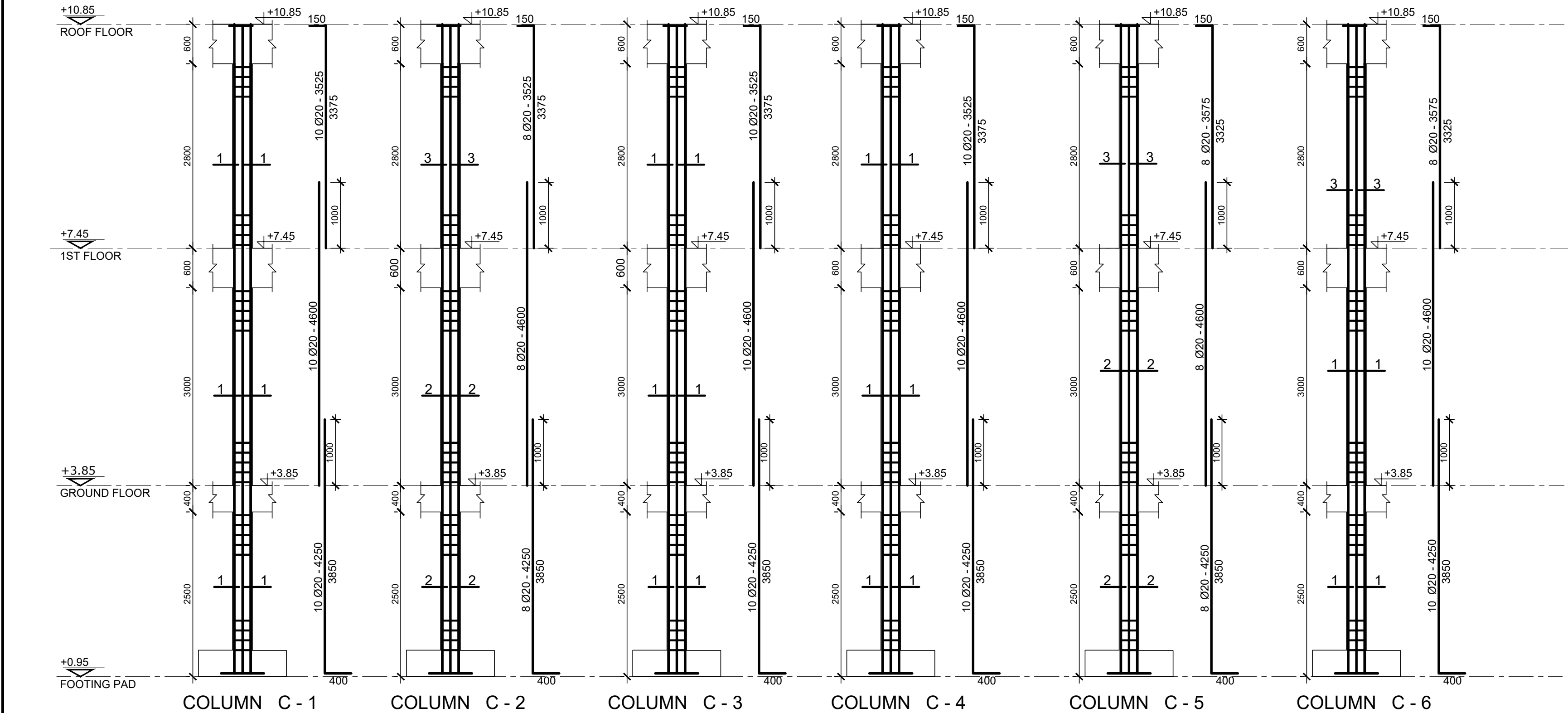
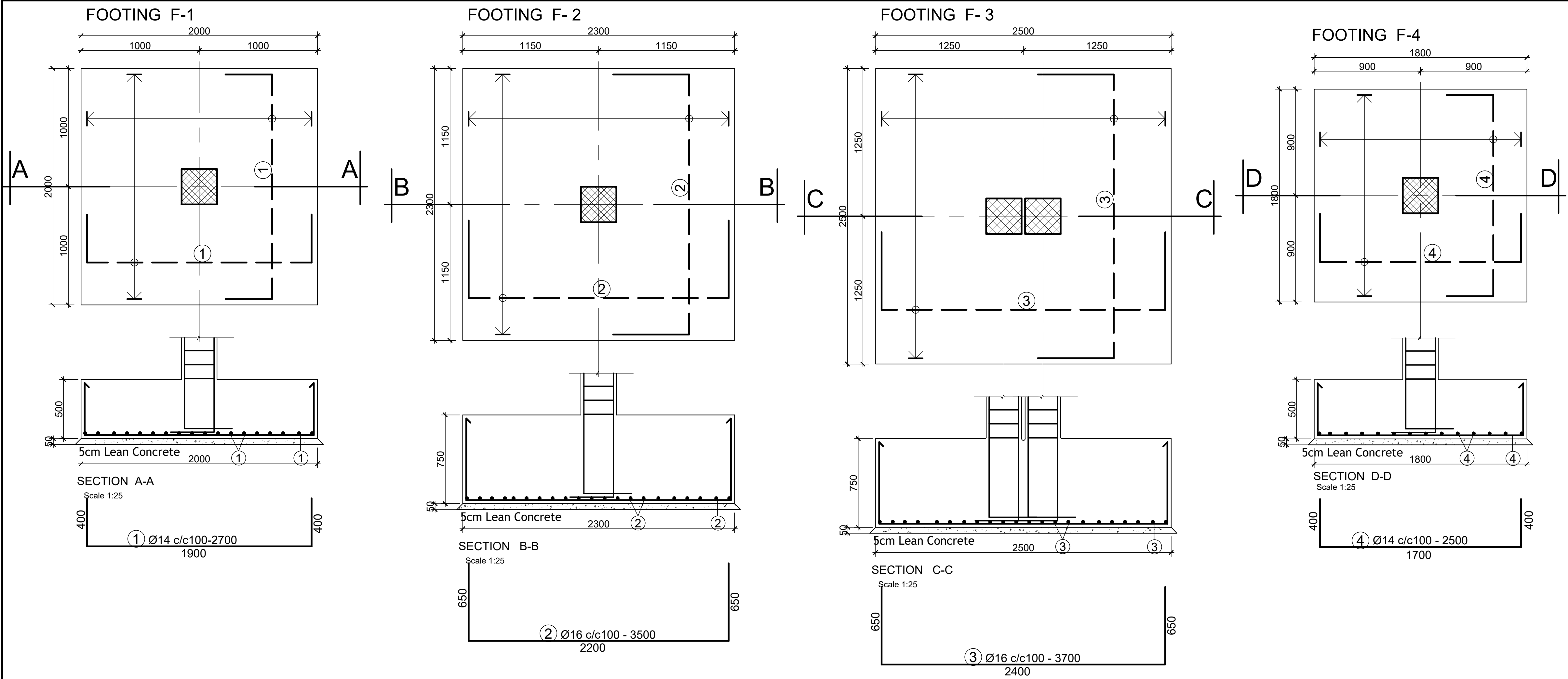
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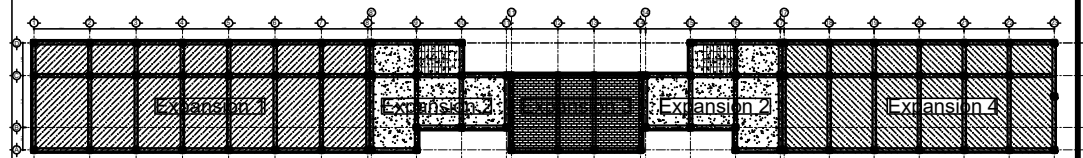
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(ADMINISTRATION BUILDING)	
ROOF TRUSS LAYOUT	

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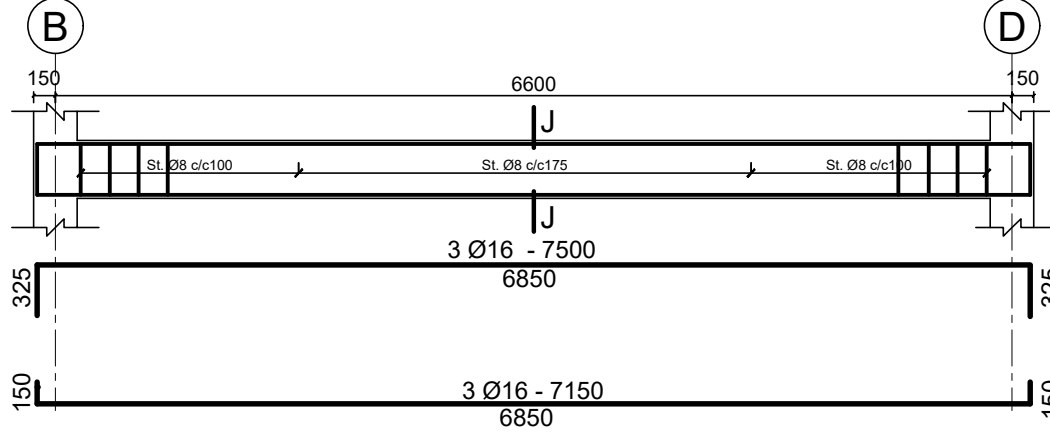
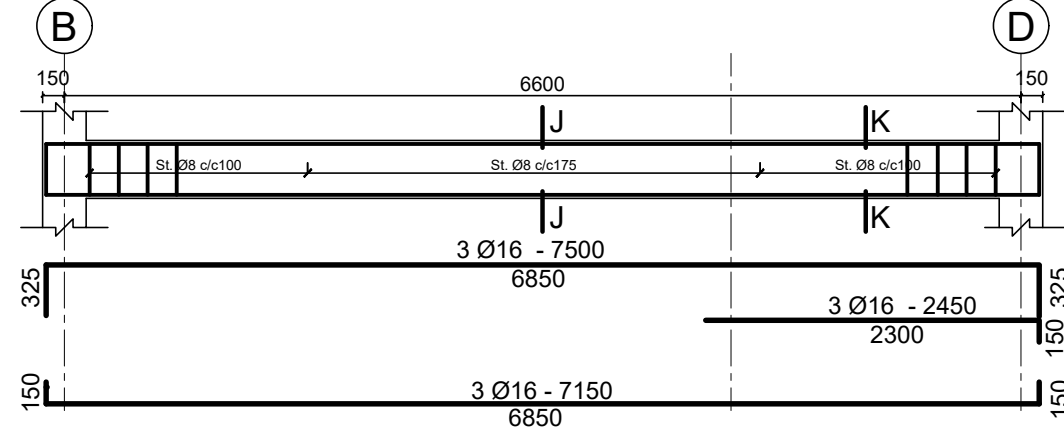
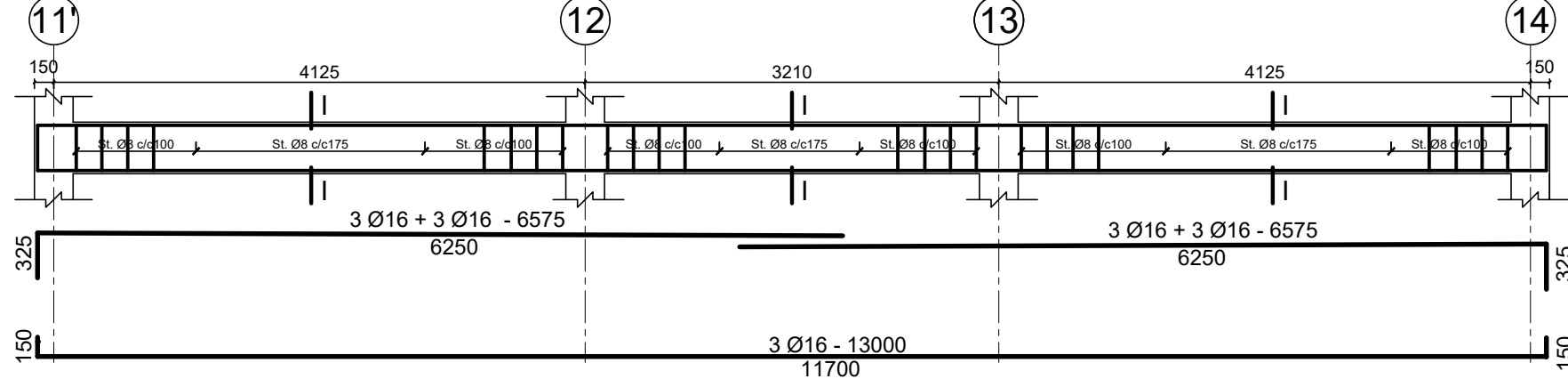
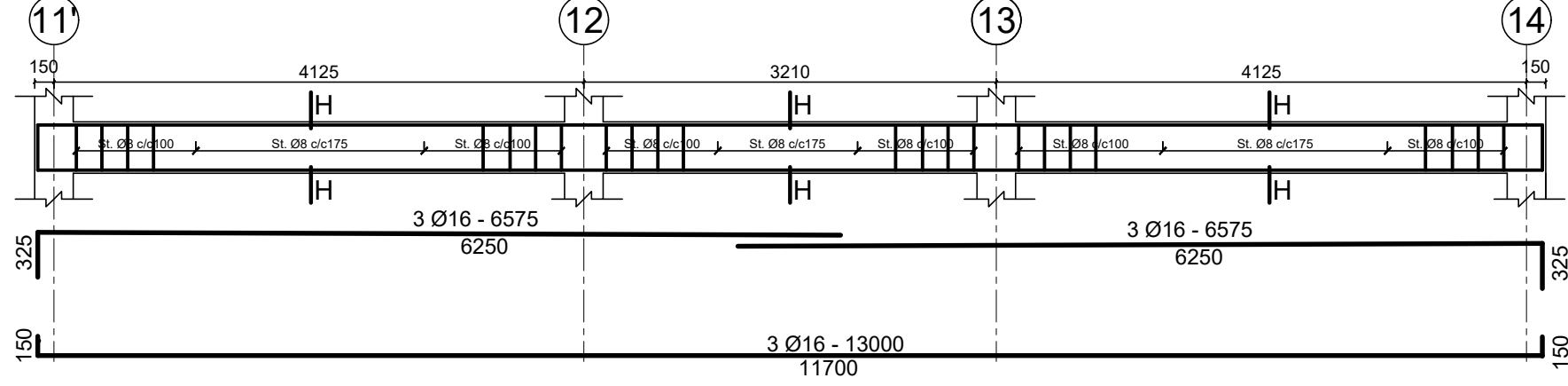
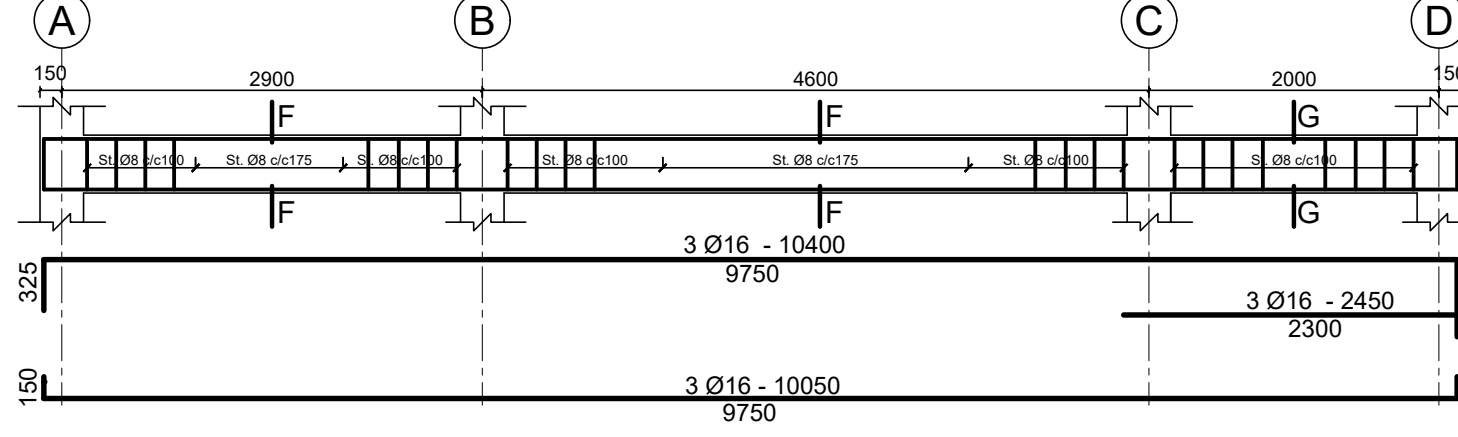
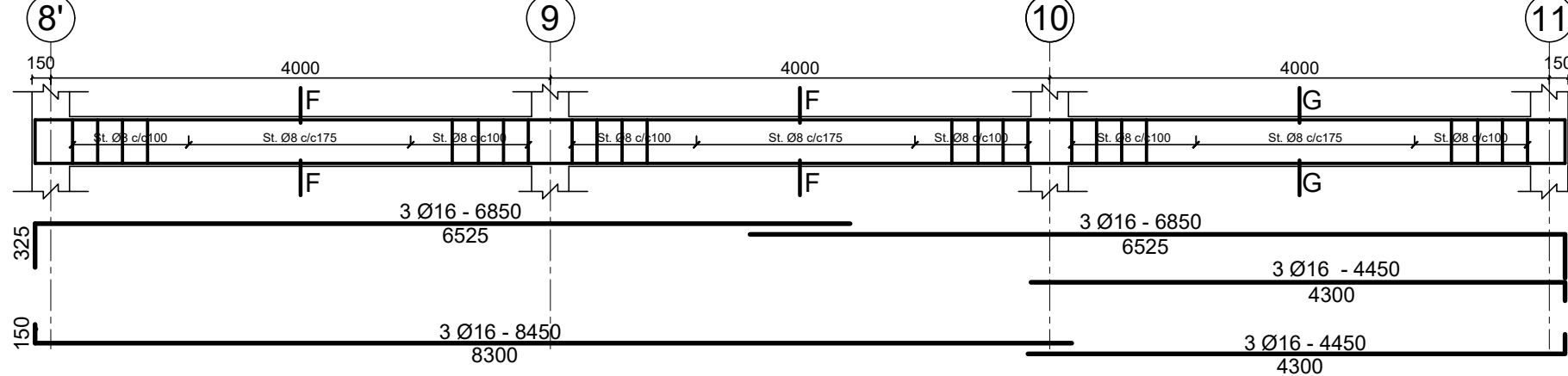
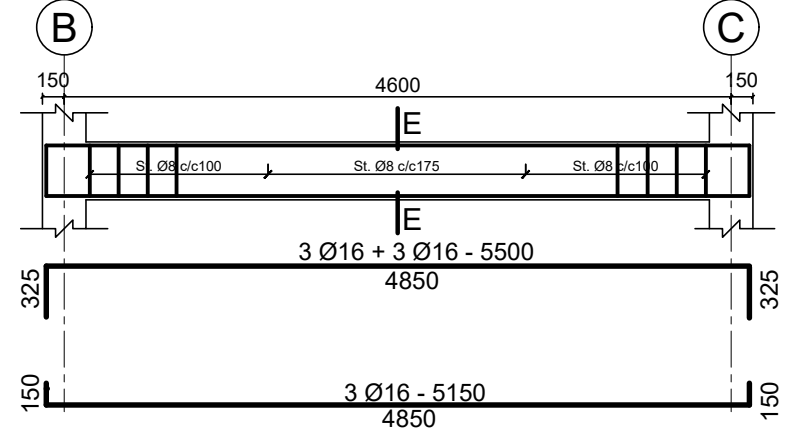
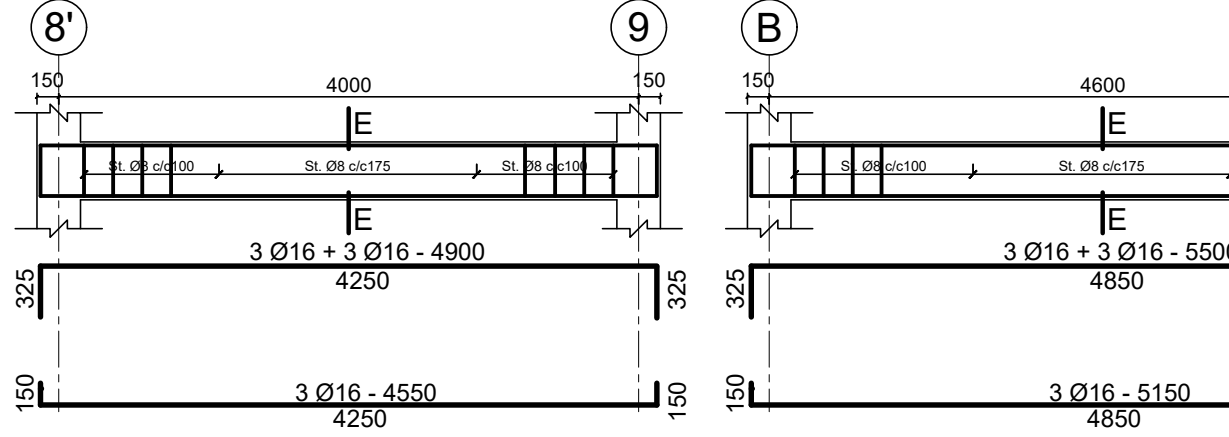
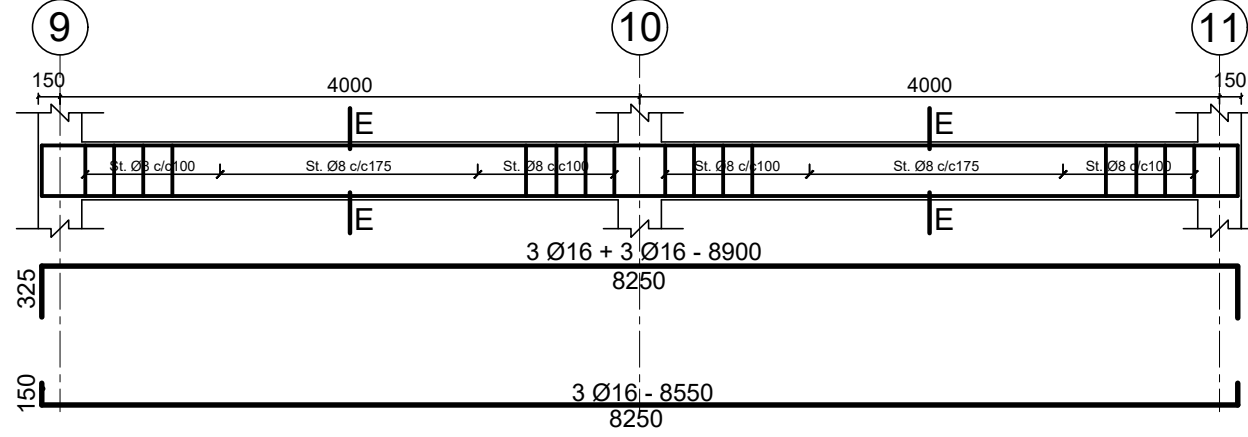
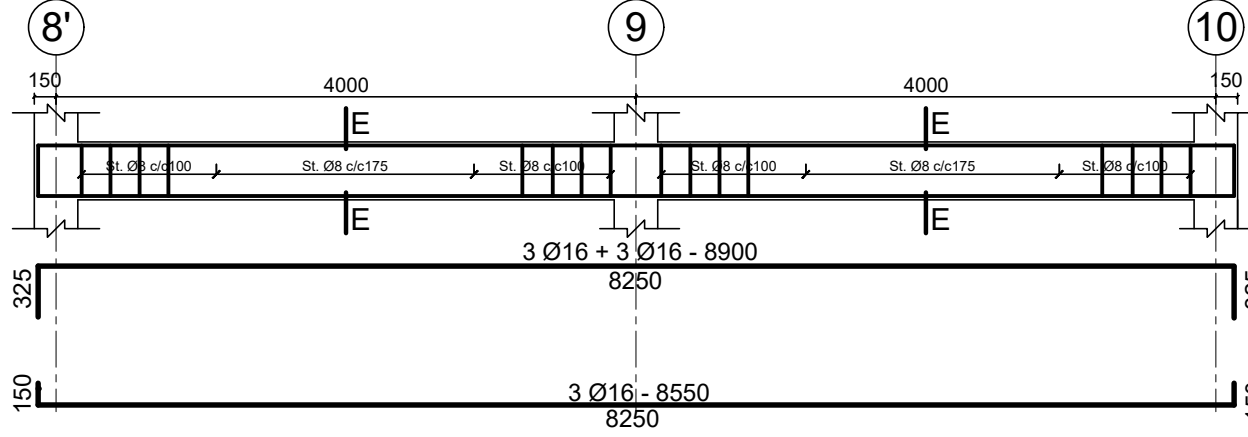
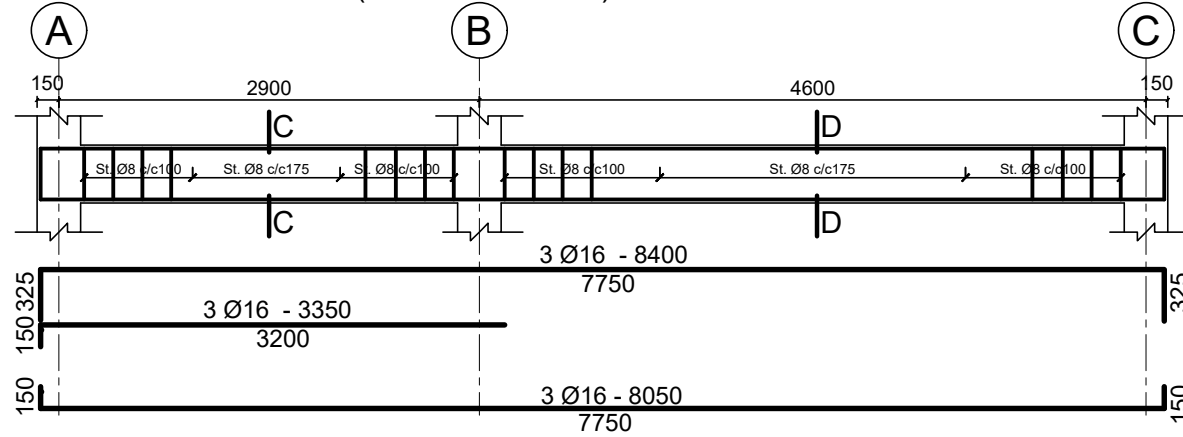
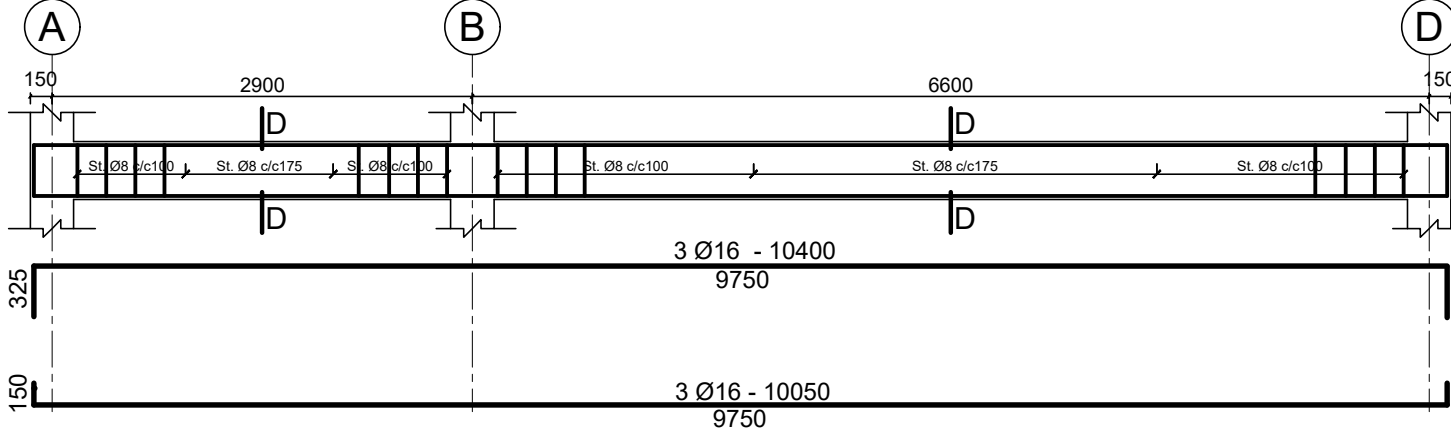
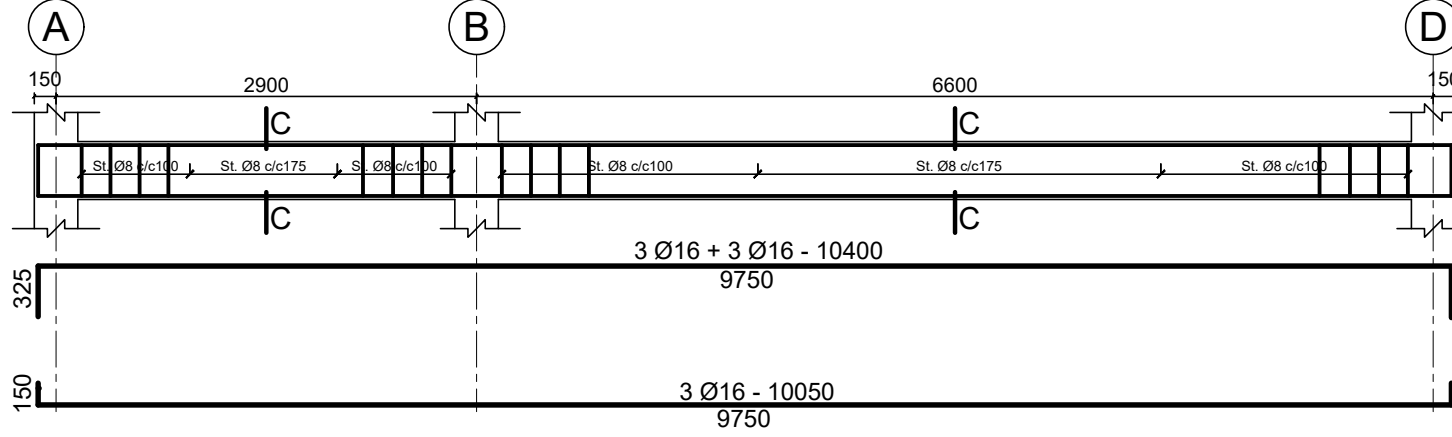
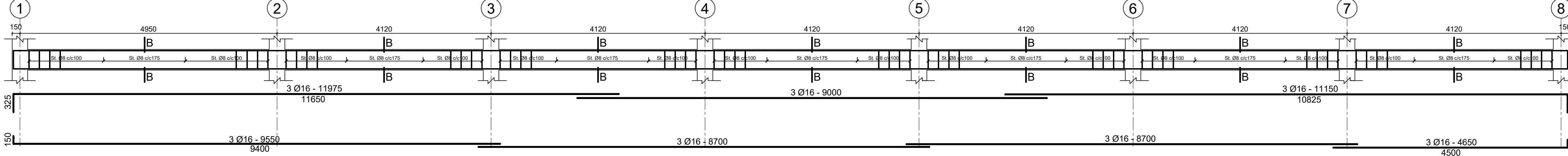
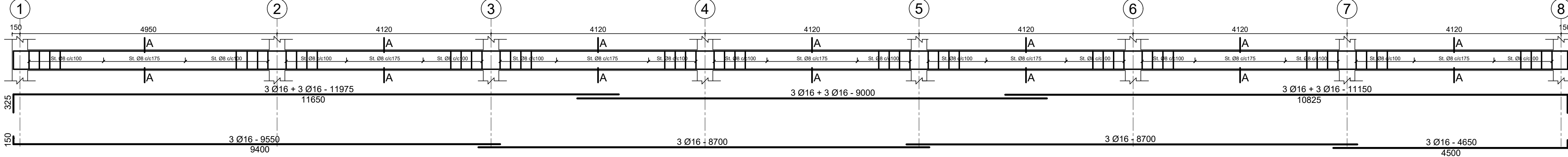
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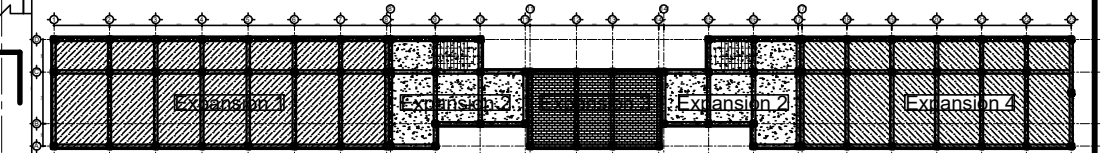
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Funded By:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA
Project Name:	Implemented By:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS - ETMCO
Project Name:	Design:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS-ETMCO

Drawing Title:					
(ADMINISTRATION BUILDING)					
FOOTING and COLUMN LAYOUT					
Designed by	Developed by	Discipline:	Dr. No:	Tot. No:	Rev No:
FA	AG	ST	08	29	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:
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Funded By:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA

EXPANSION AND STRENGTHENING OF
KIDANE MIHRET CATHOLIC GENERAL
HOSPITAL

Implemented By:

UNOPS - ETMCO

Project Name:

EXPANSION AND STRENGTHENING OF
KIDANE MIHRET CATHOLIC GENERAL
HOSPITAL

UNOPS-ETMCO

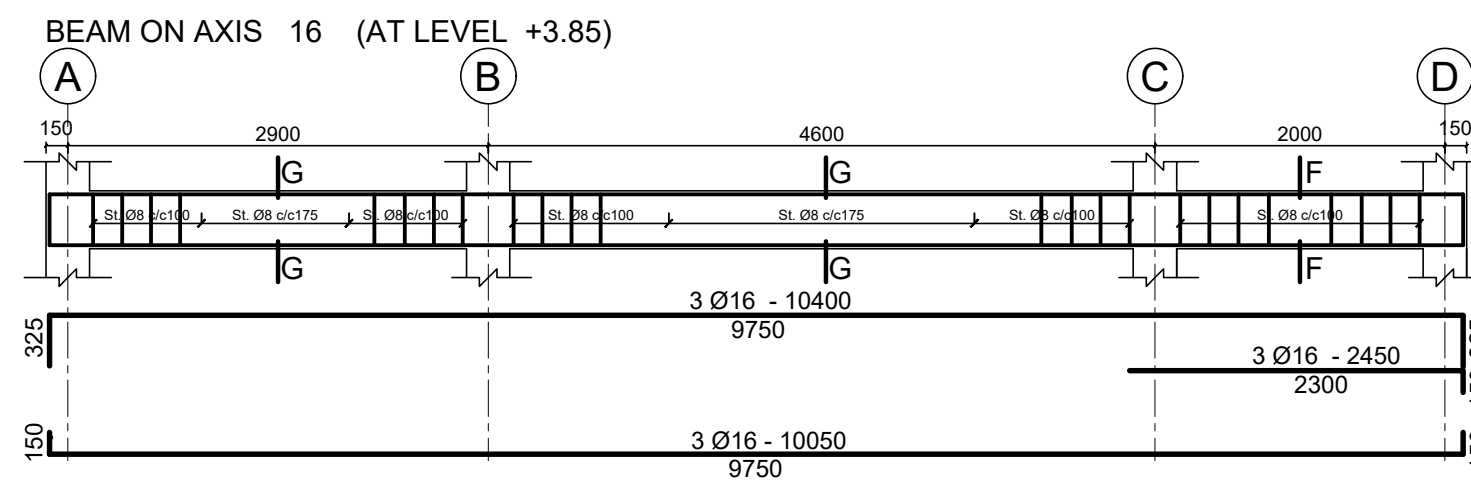
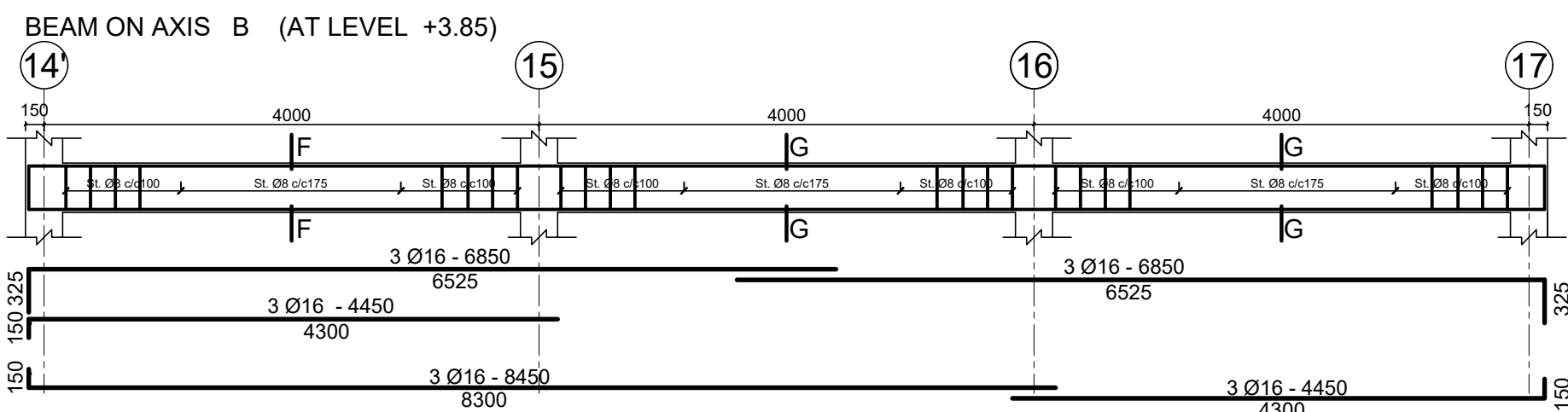
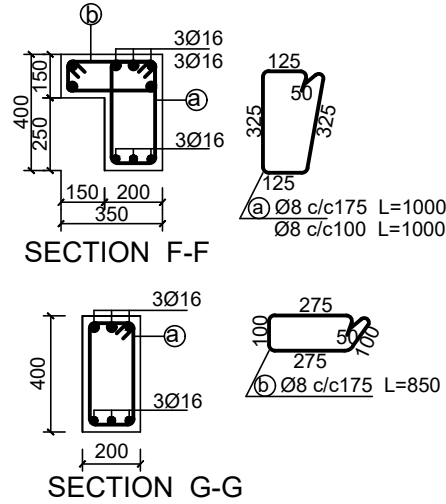
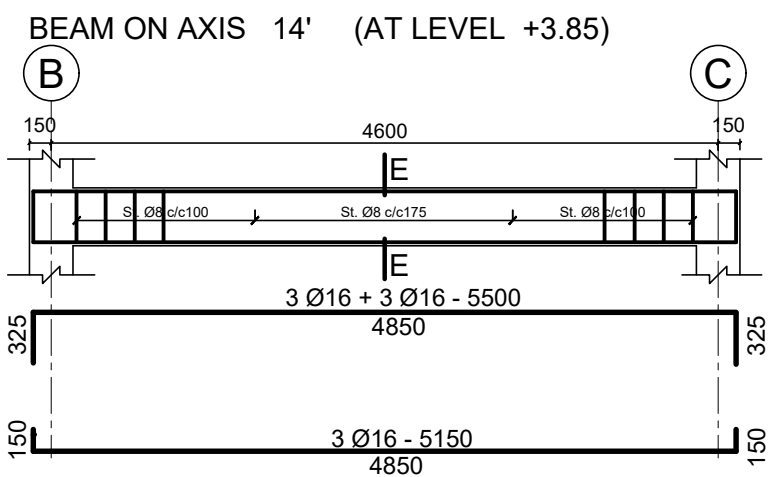
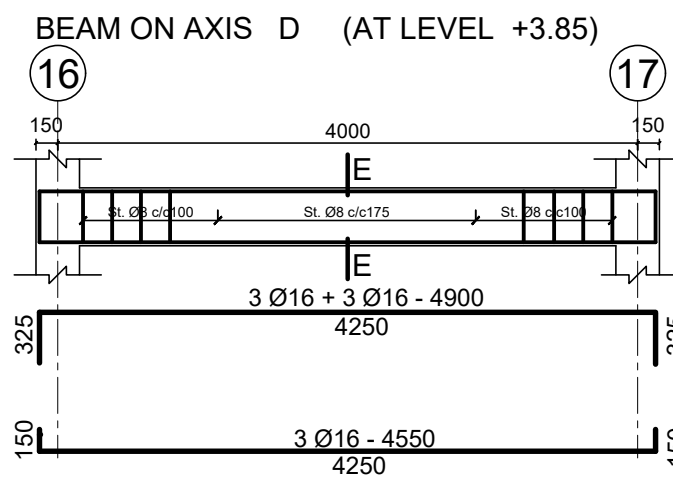
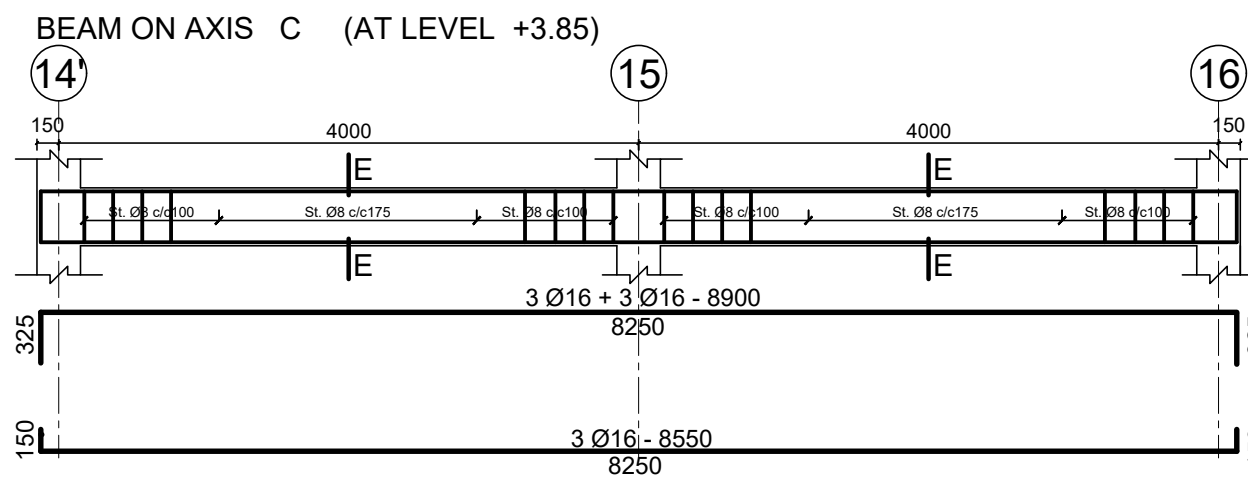
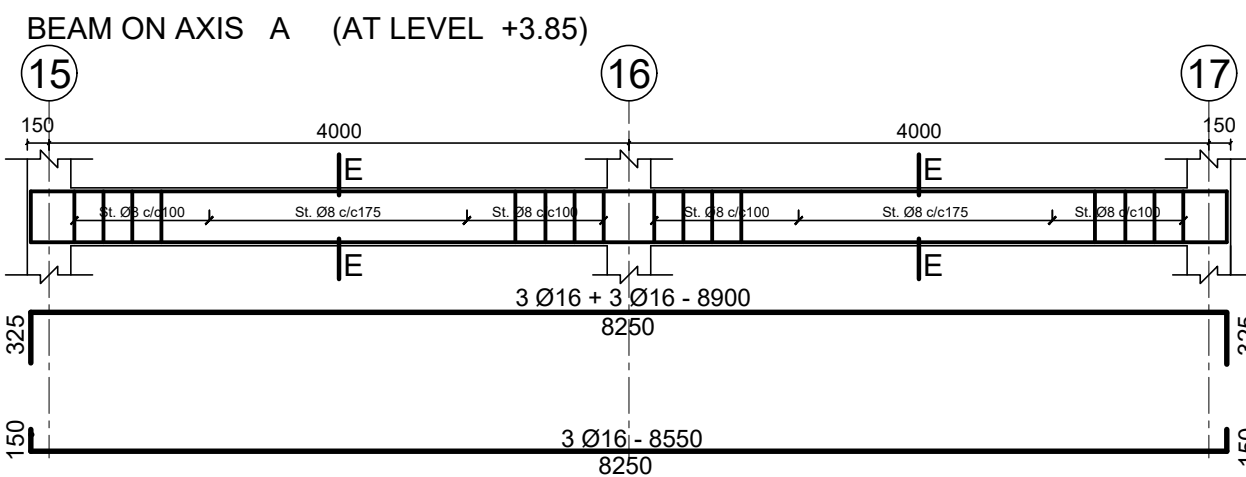
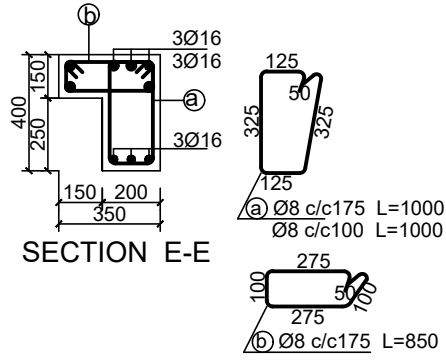
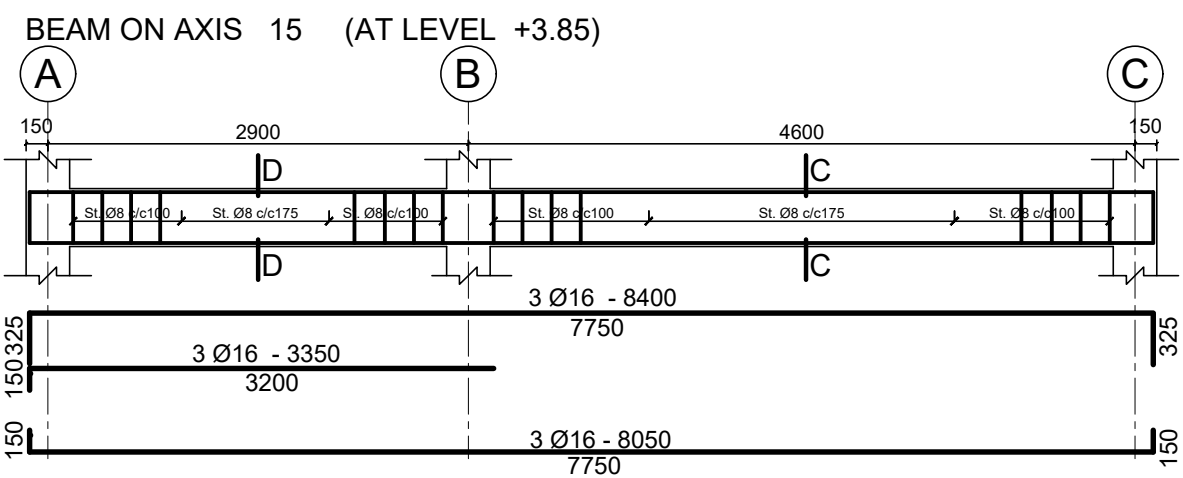
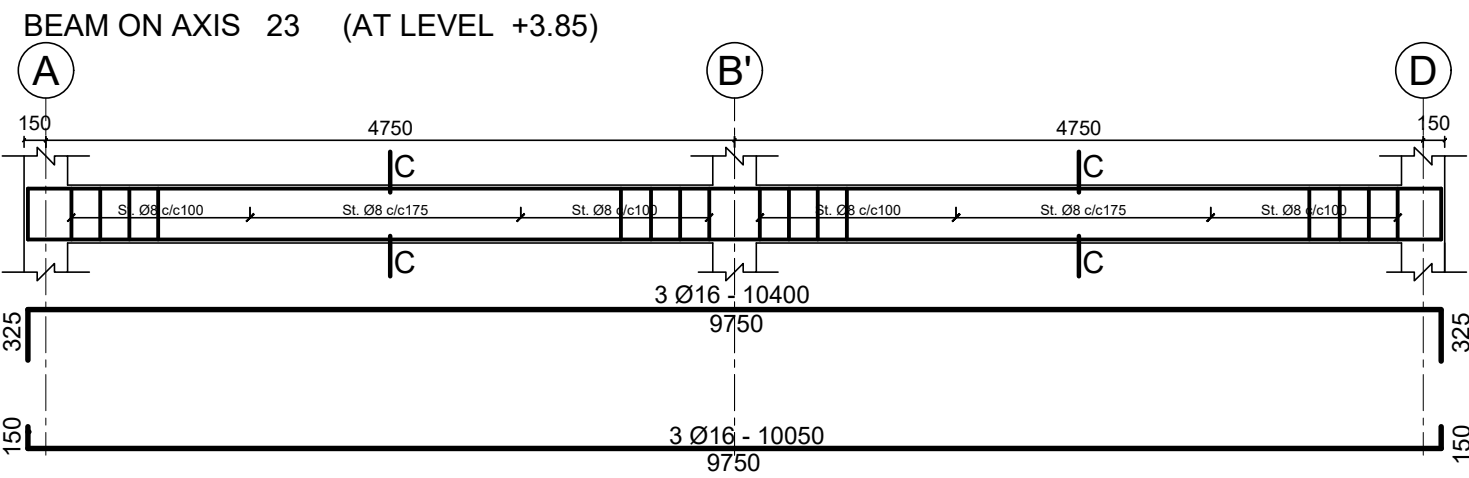
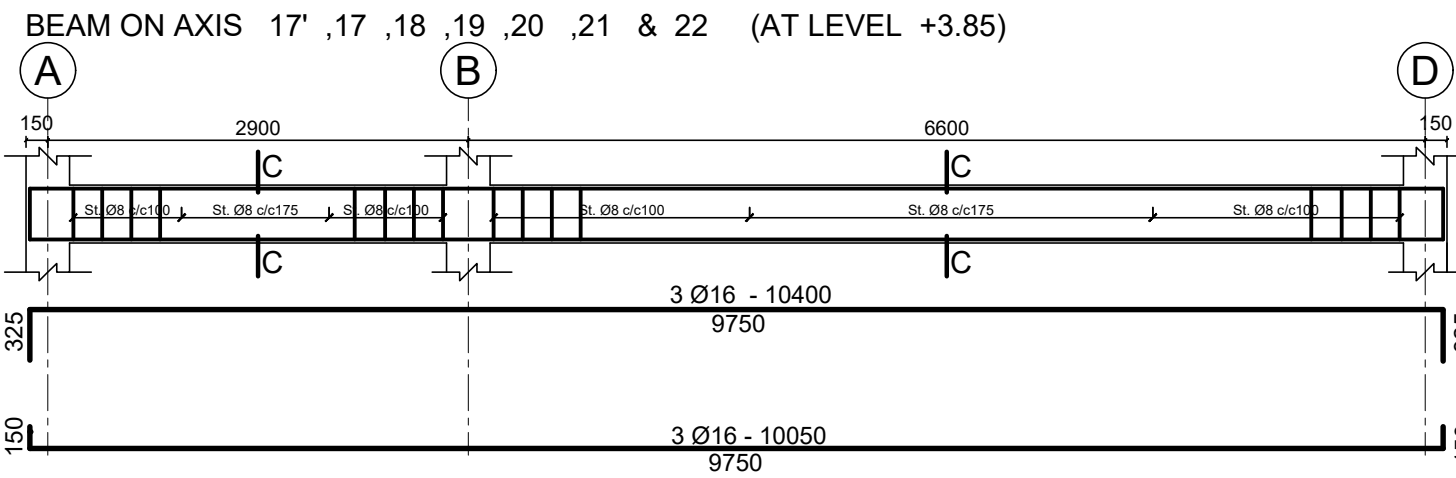
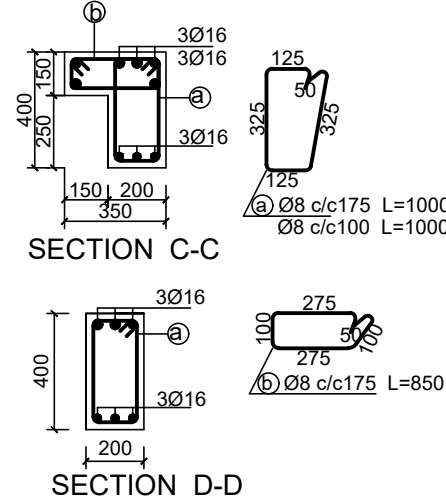
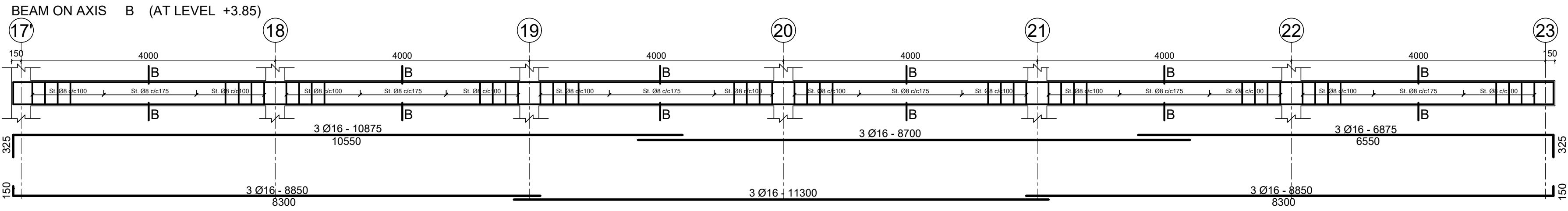
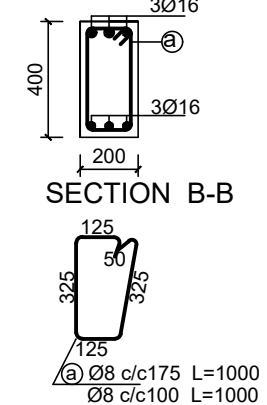
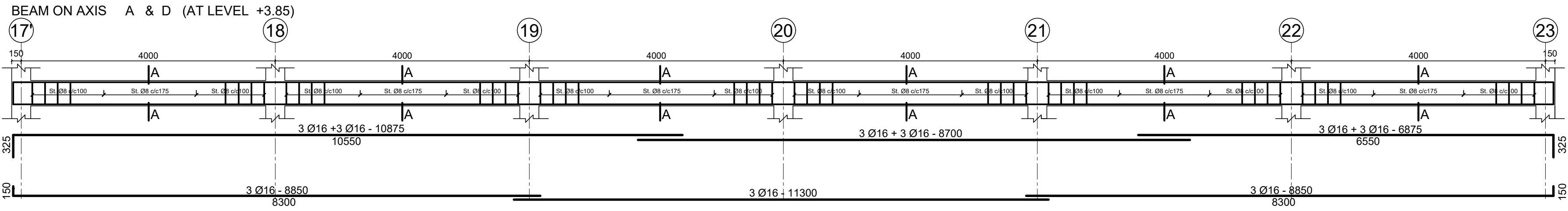
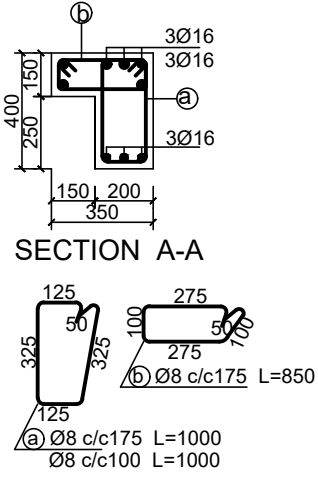


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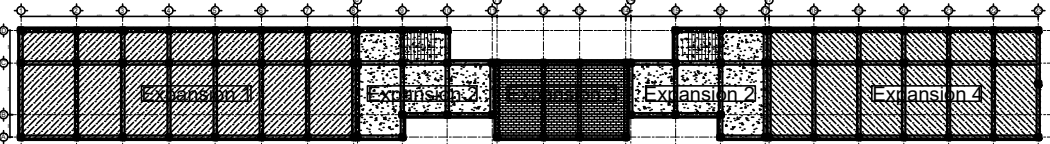
(ADMINISTRATION BUILDING)

BEAM DETAILS

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FA		AG		ST		09		29		R0	
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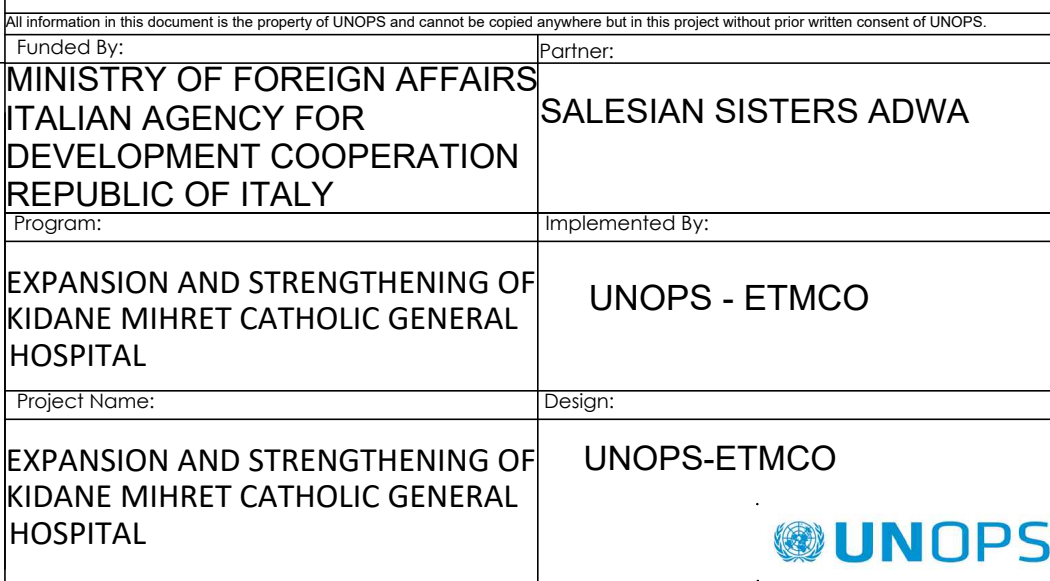
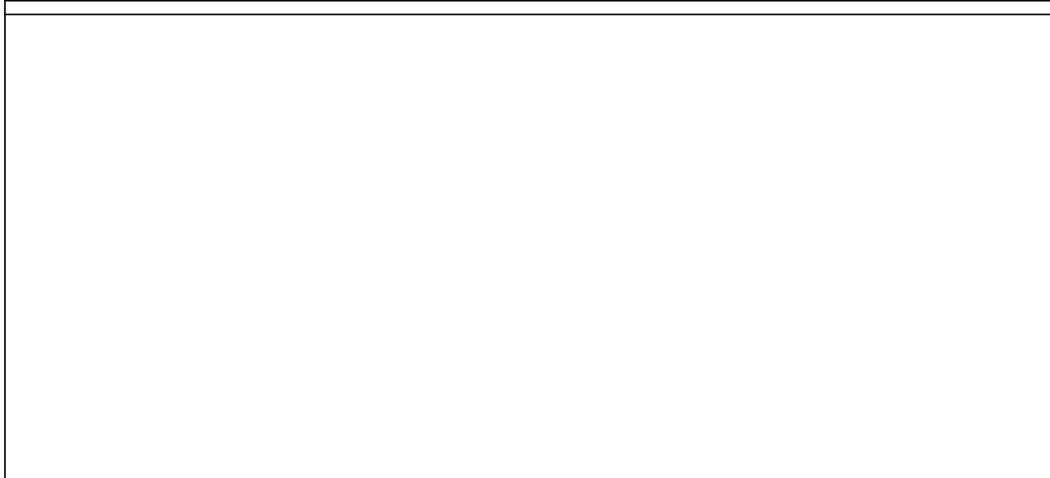
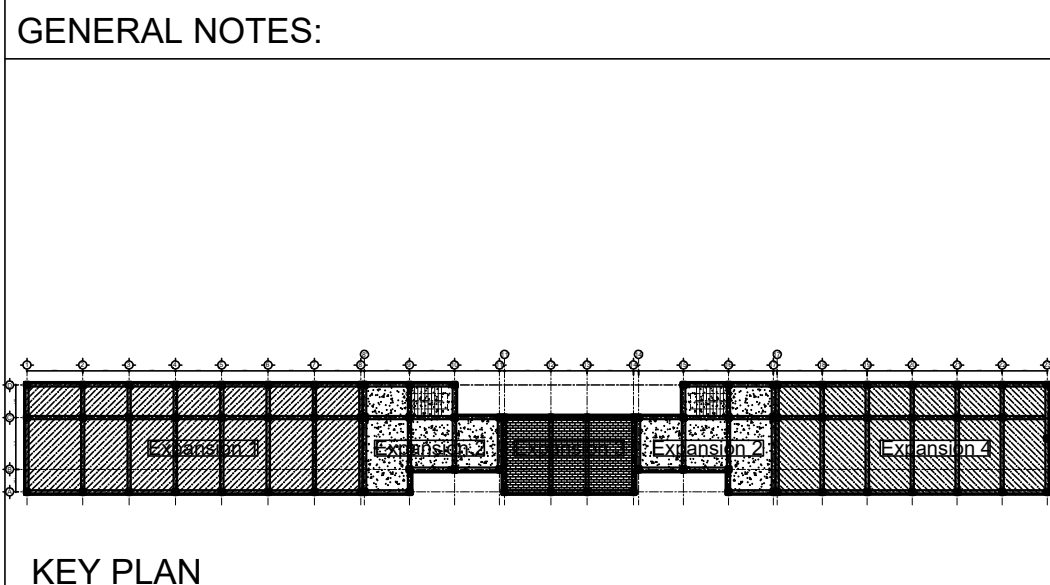
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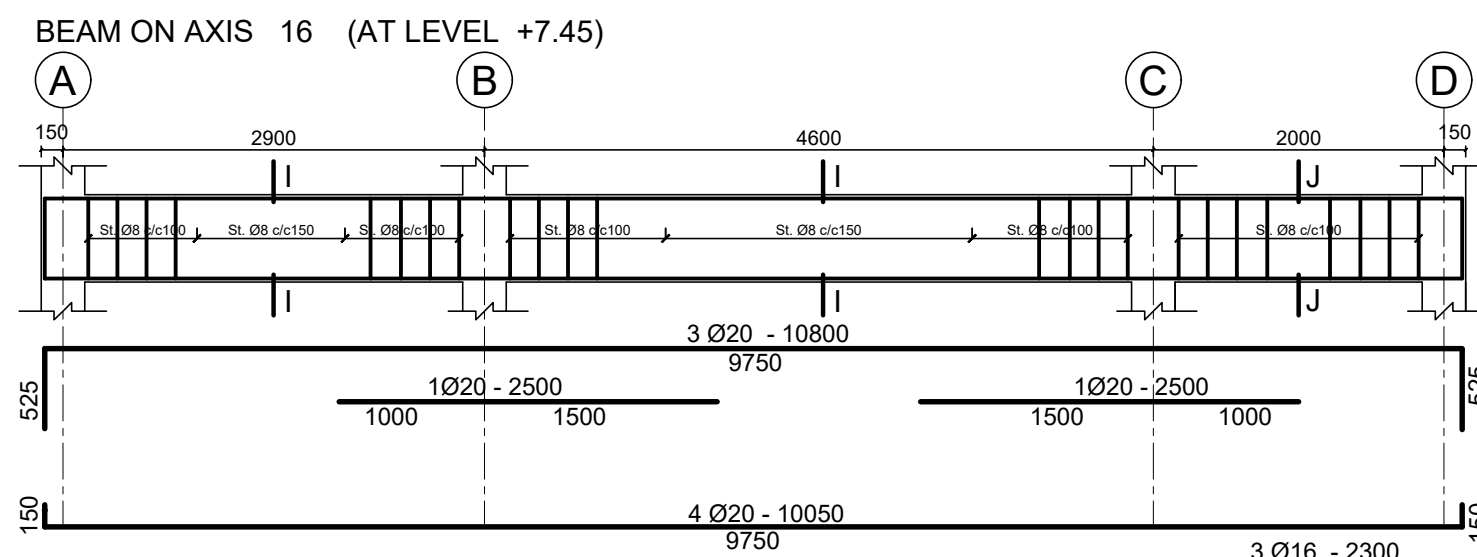
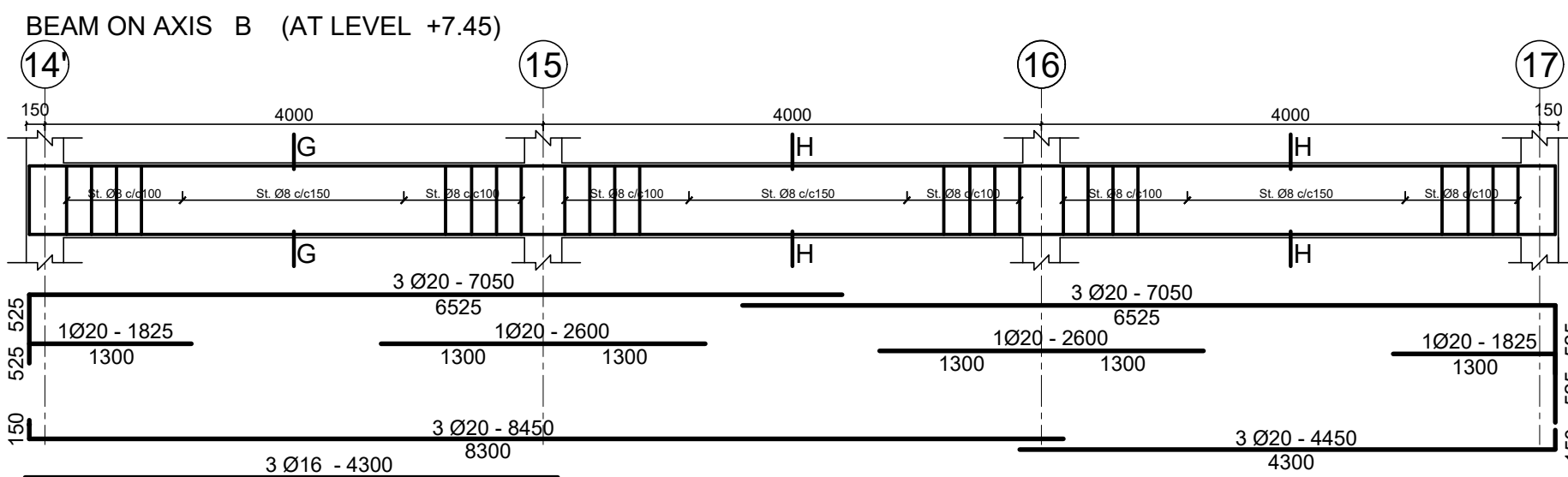
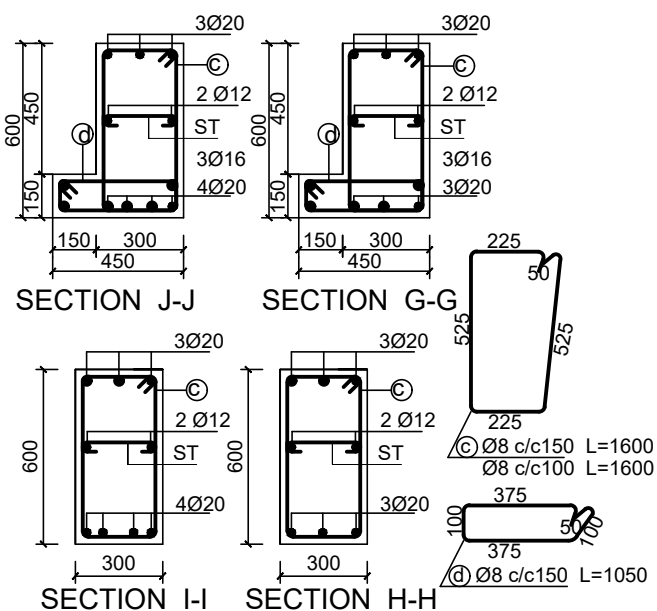
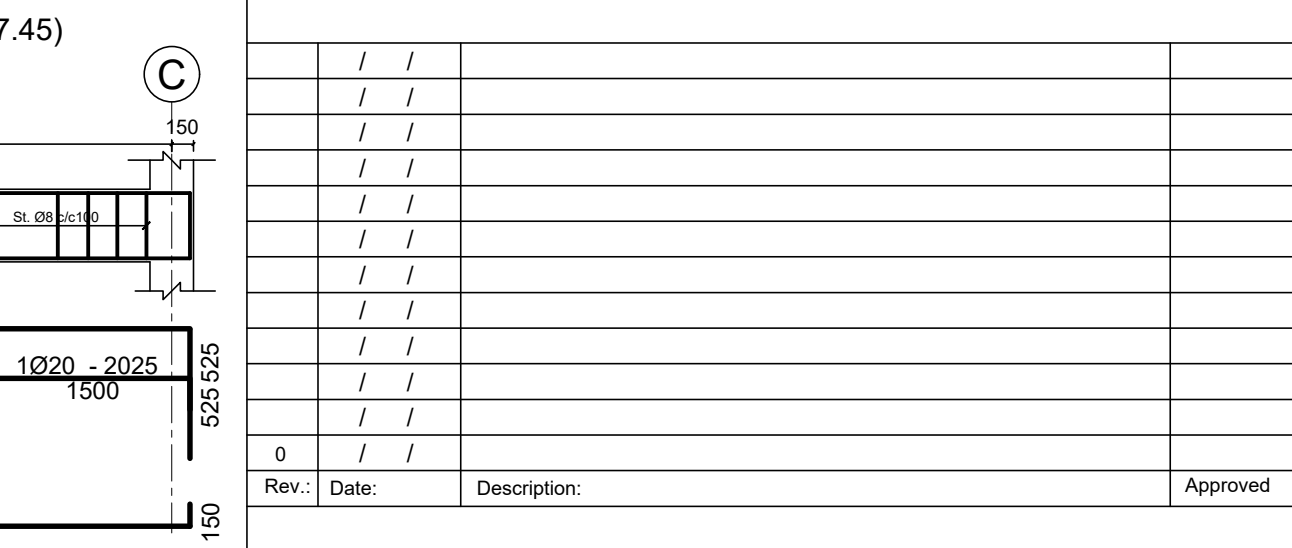
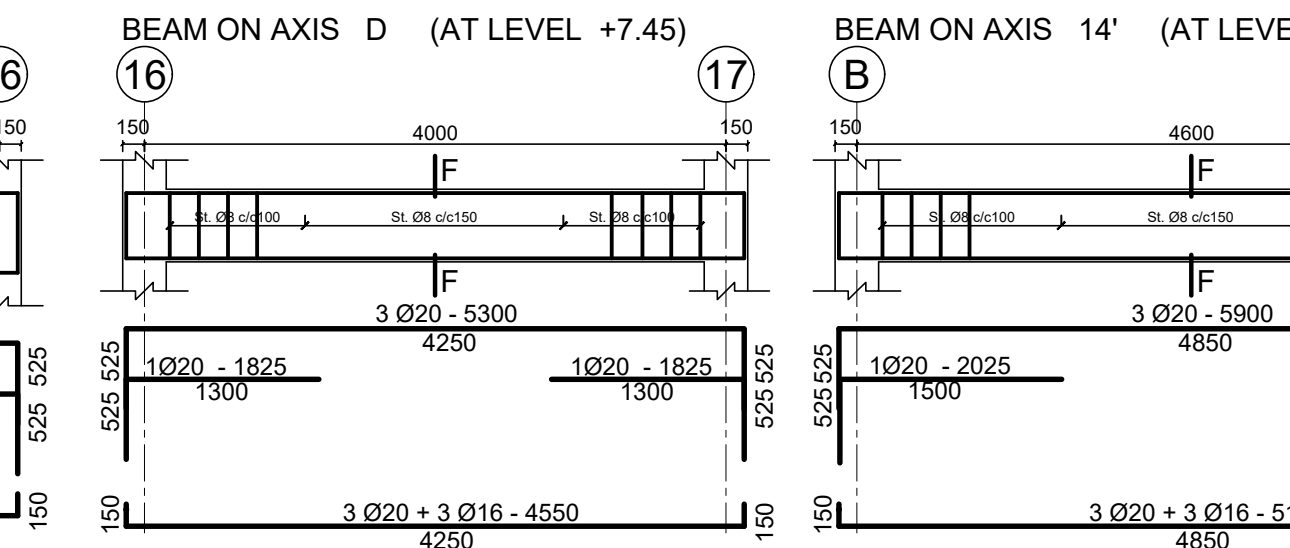
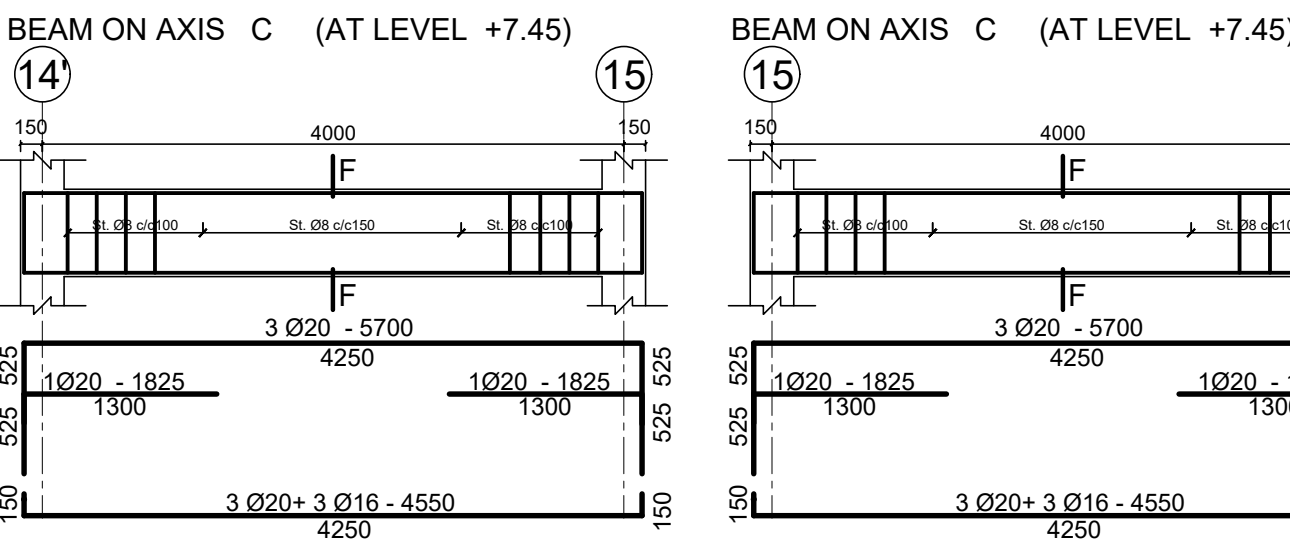
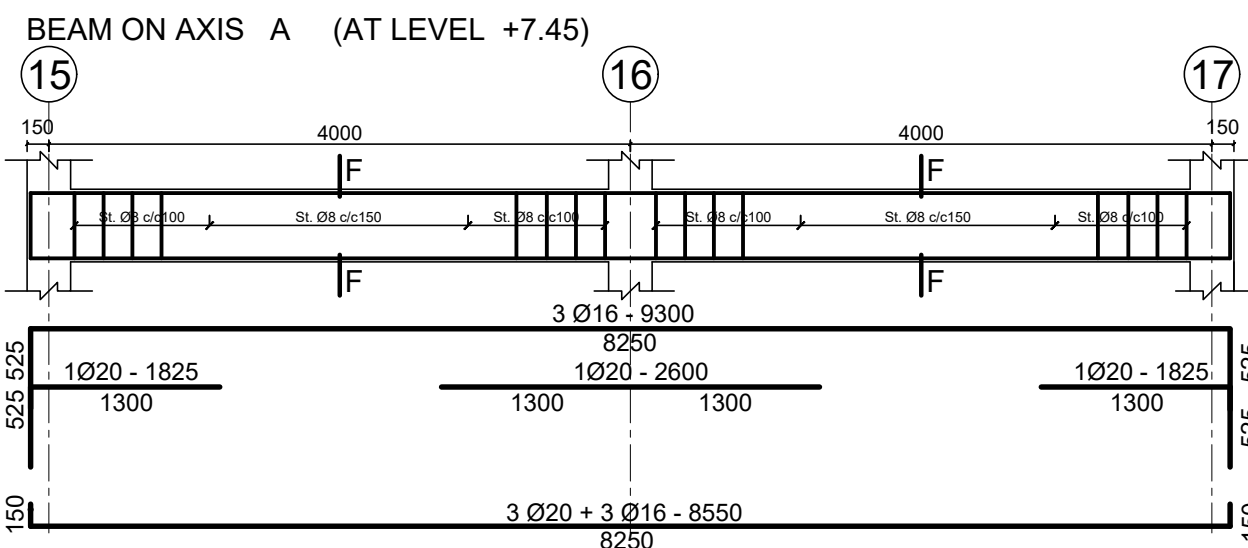
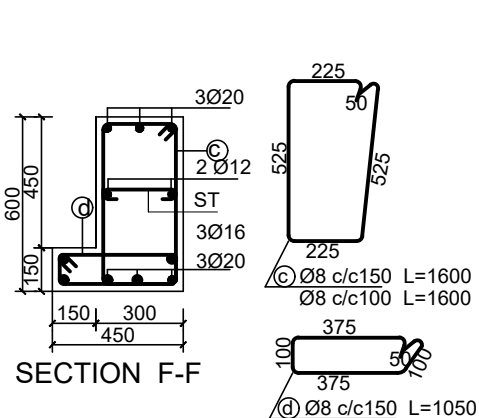
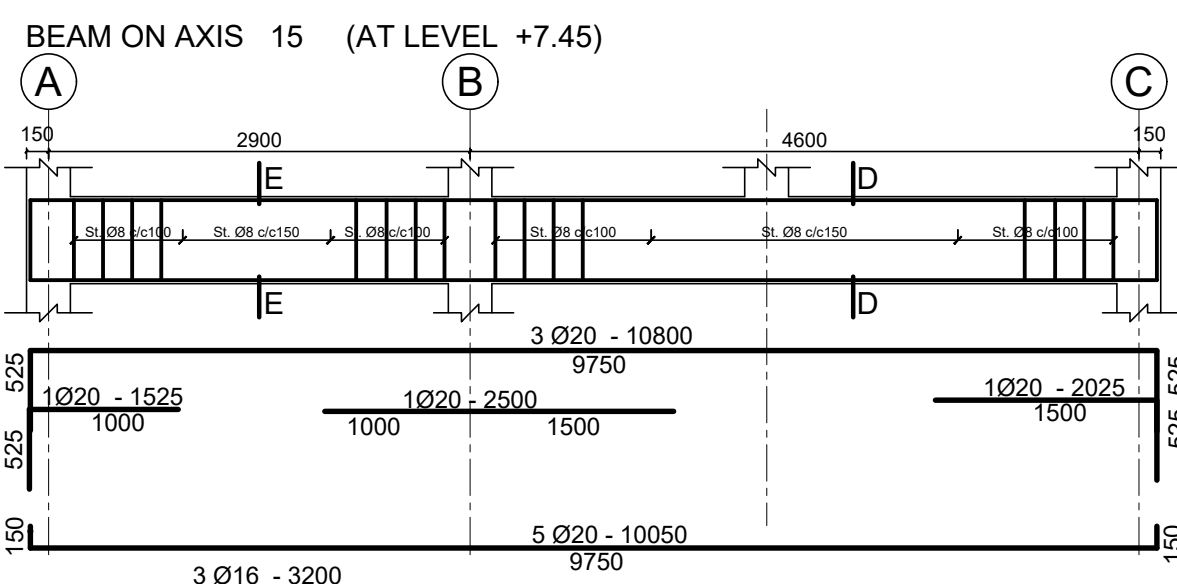
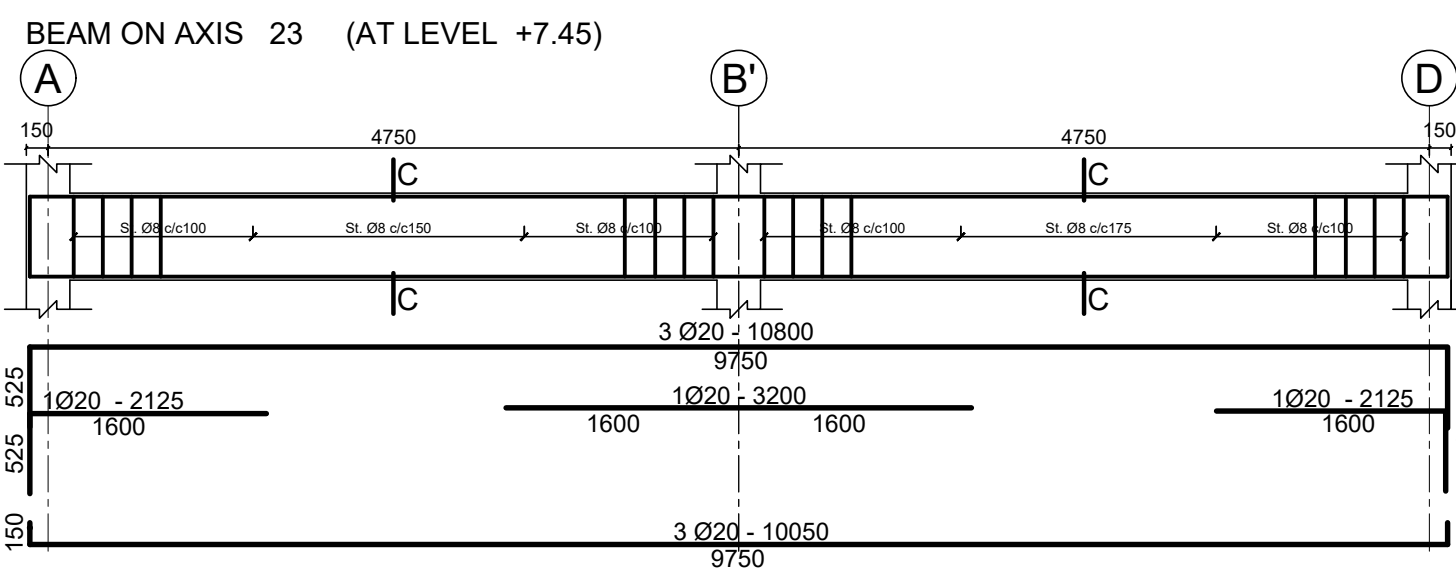
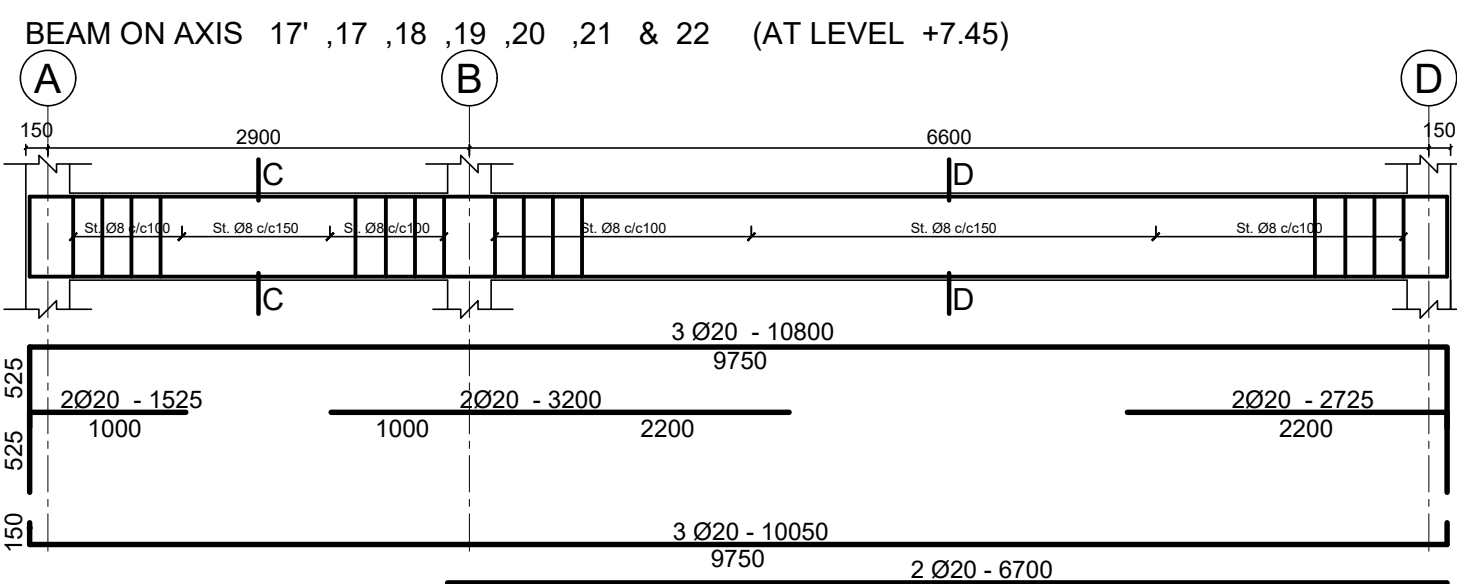
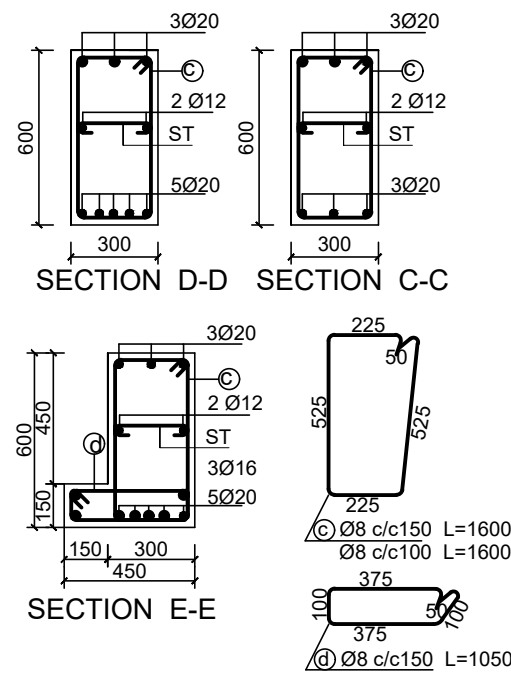
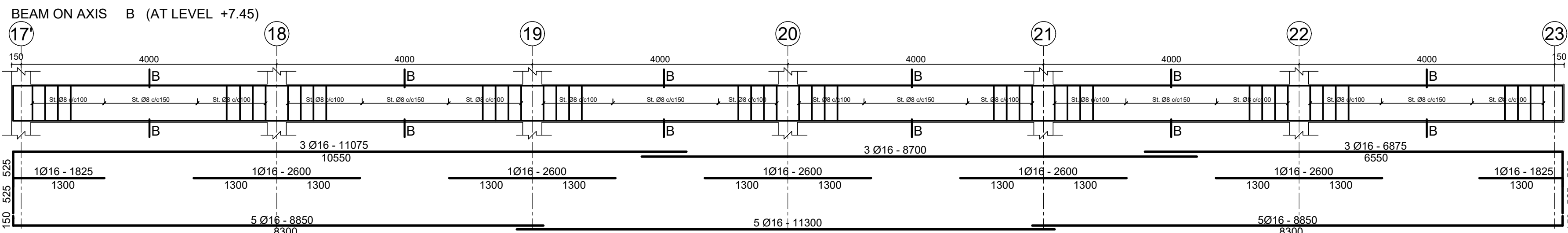
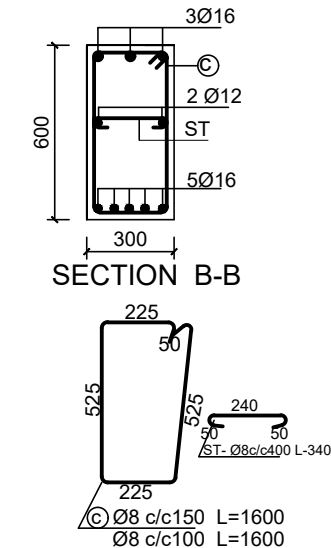
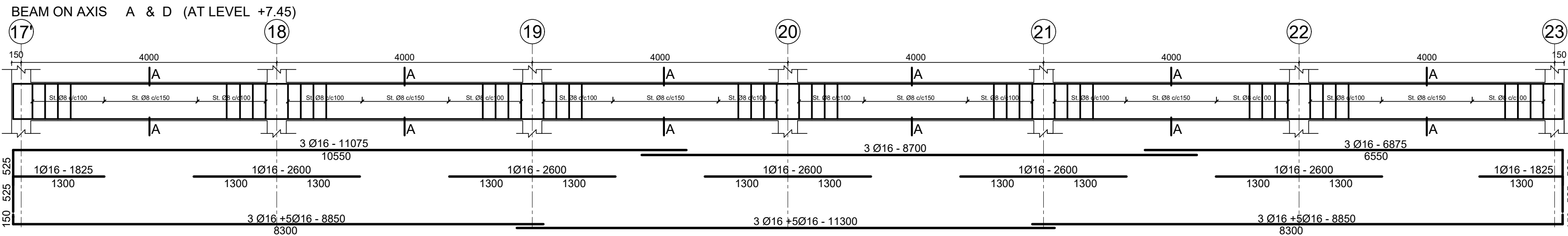
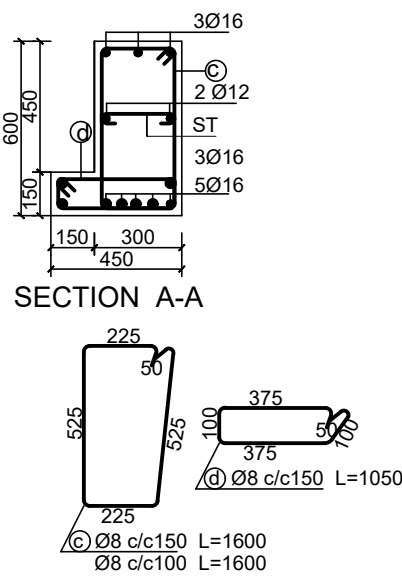
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Funded By:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA
Program:	Implemented By:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS - ETMCO
Project Name:	Design:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS-ETMCO

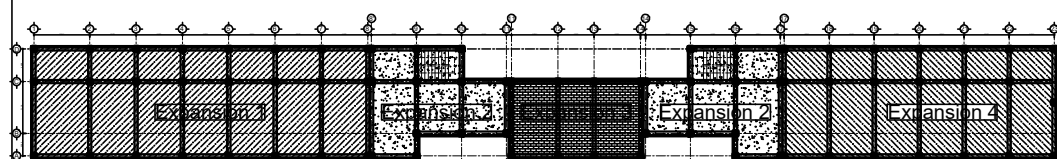
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BEAM DETAILS					
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FA	AG	ST	10	29	R0
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(ADMINISTRATION BUILDING)									
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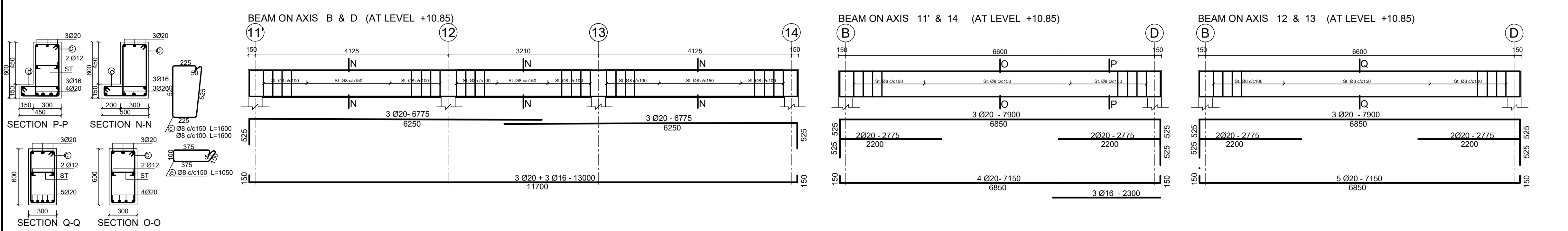
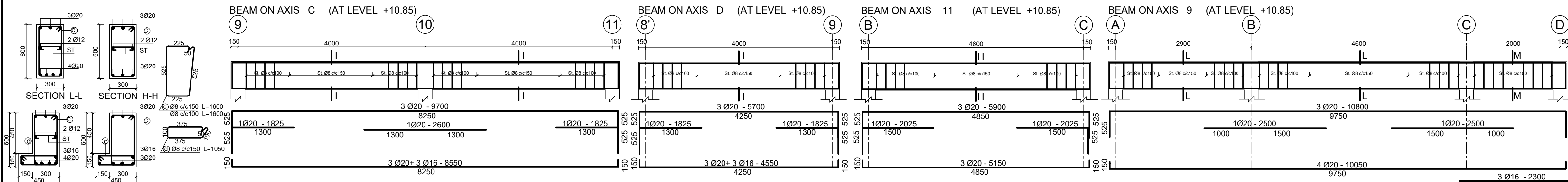
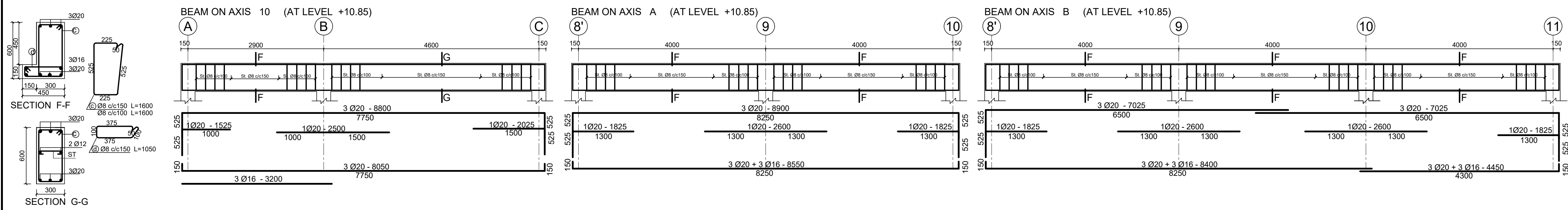
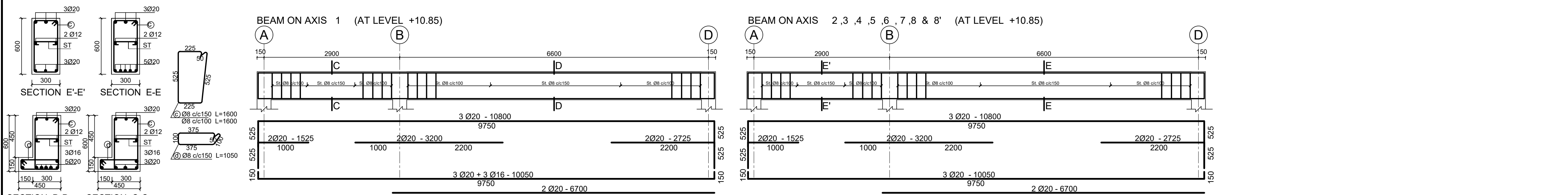
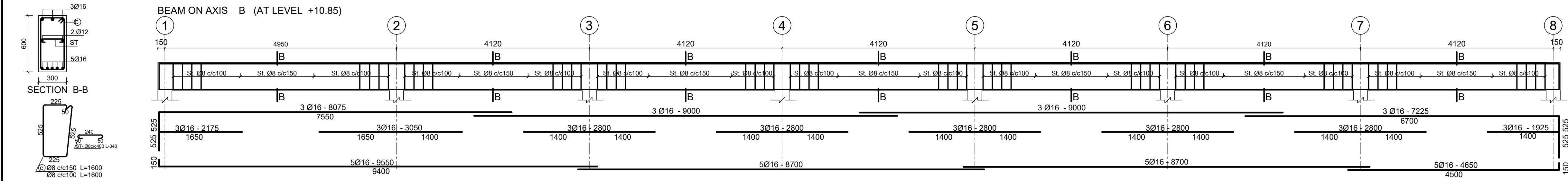
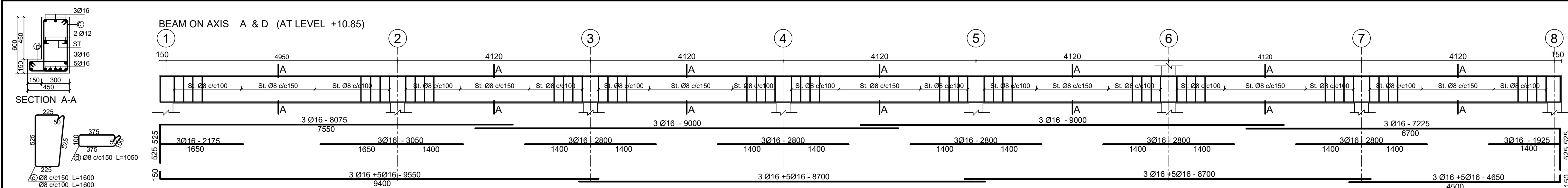
KEY PLAN

Rev.	Date:	Description:	Approved
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KEY PLAN

Funded By:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA
Program:	Implemented By:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS - ETMCO
Project Name:	Design:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS-ETMCO

Drawing Title:					
(ADMINISTRATION BUILDING)					
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Designed by	Developed by	Discipline:	Dr. No:	Tot. No:	Rev No:
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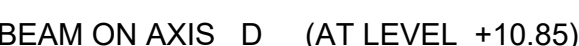
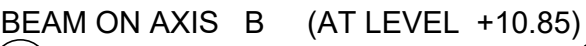
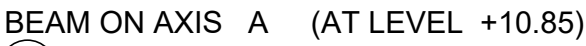
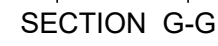
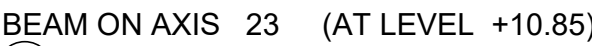
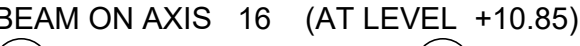
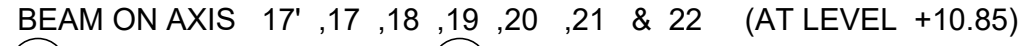
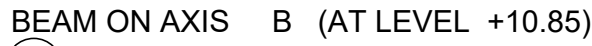
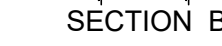
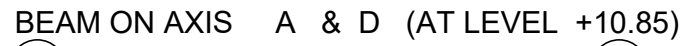
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Rev.	Date:	Description:	Approved
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KEY PLAN

Funded by:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA
Program:	implemented by:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS - ETMCO
Project Name:	Design:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS-ETMCO

Drawing Title:					
(ADMINISTRATION BUILDING)					
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FM	AE	SH	A1	1:50 1:25	01/04/2024



KEY PLAN



Rev.:	Date:	Description:	Approved
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Program:	Implemented By:

EXPANSION AND STRENGTHENING OF UNOPS-ETMCO

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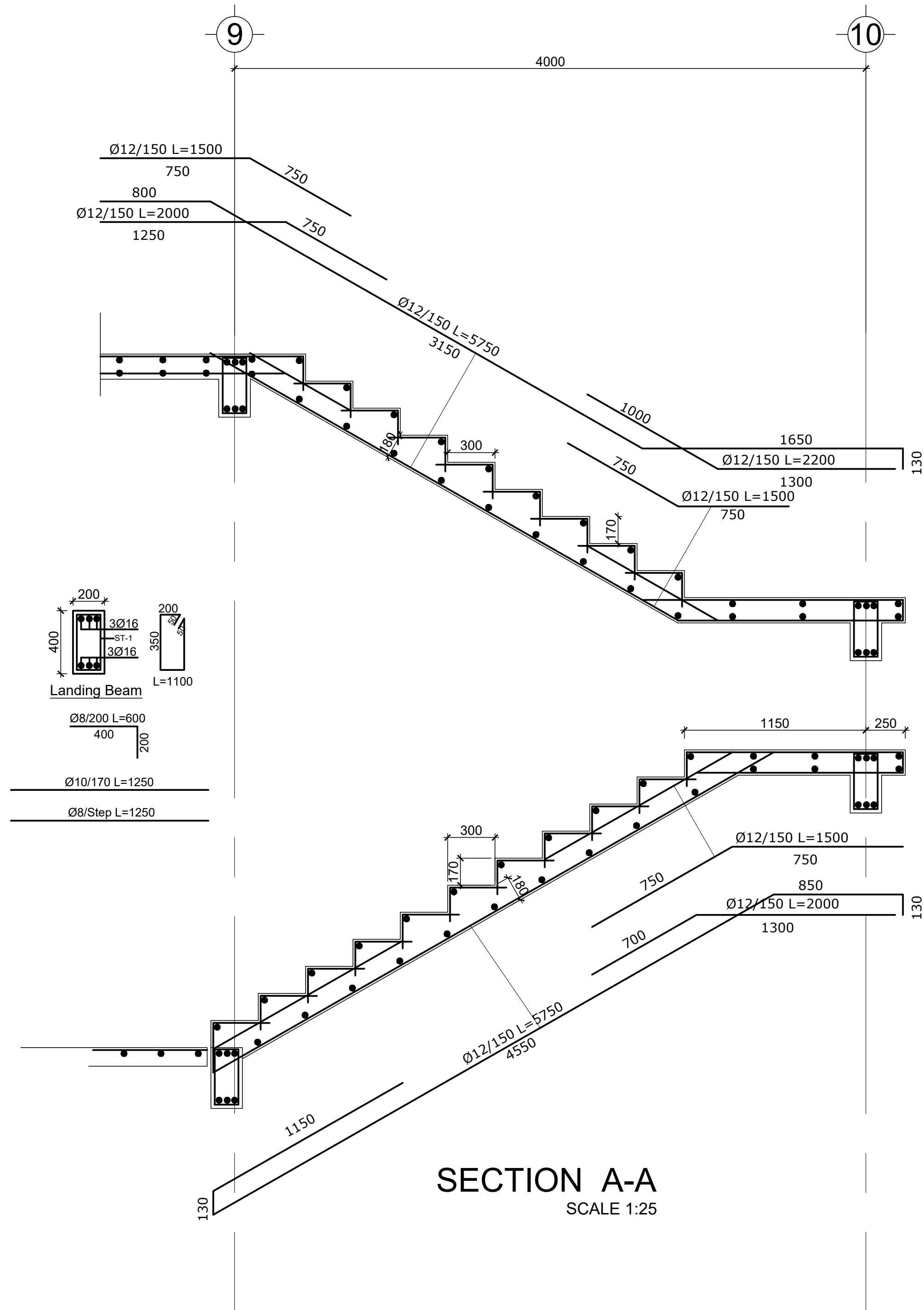
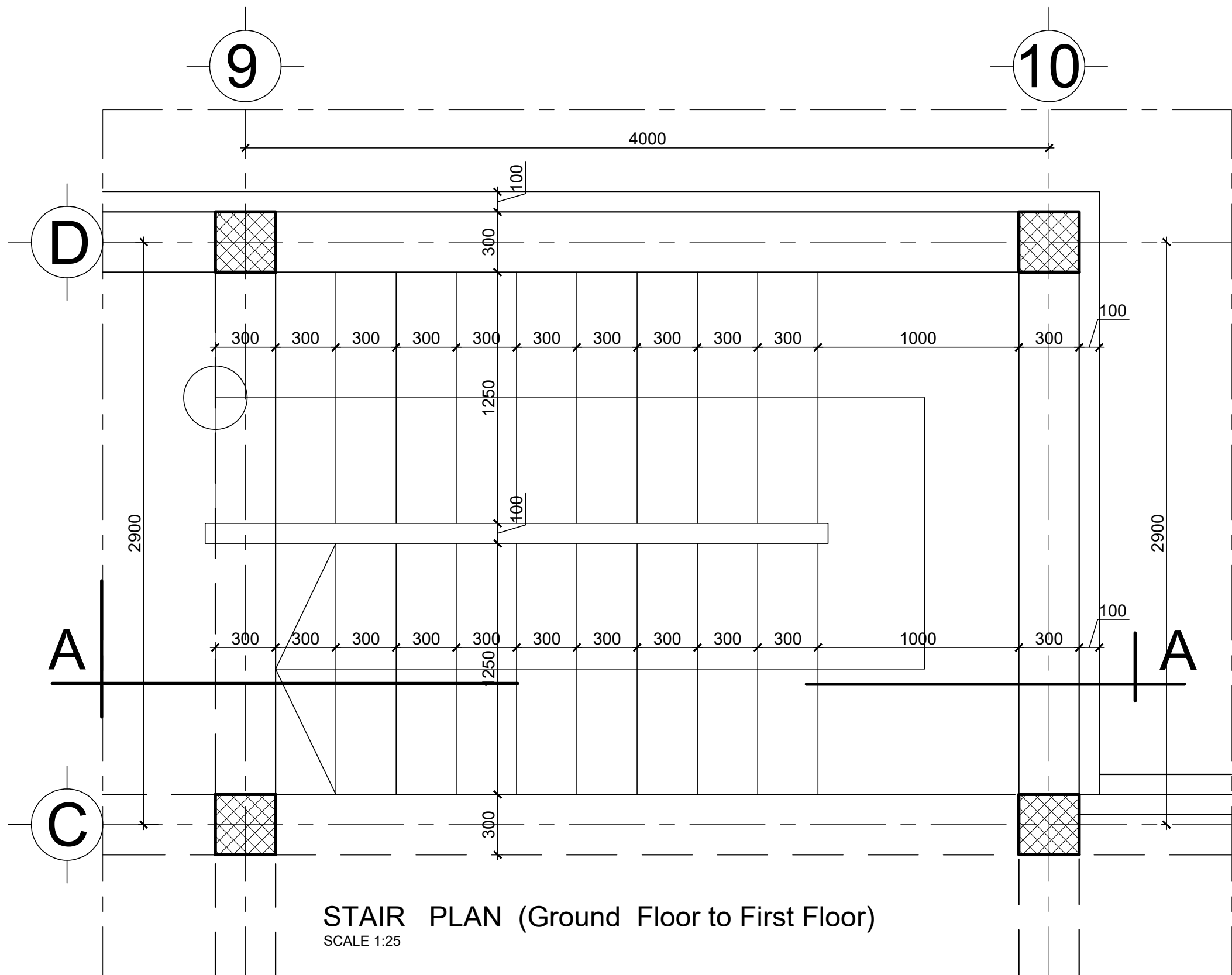
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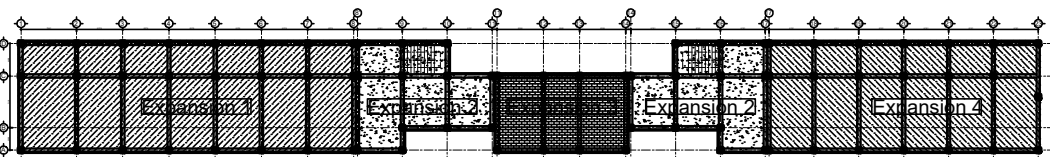
(ADMINISTRATION BUILDING)

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Designed by		Developed by		Discipline:		Dr. No:		Tot. No:		Rev No:	
FA		AG		ST		14		29		R0	
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GENERAL NOTES:



KEY PLAN

Rev.:	Date:	Description:	Approved
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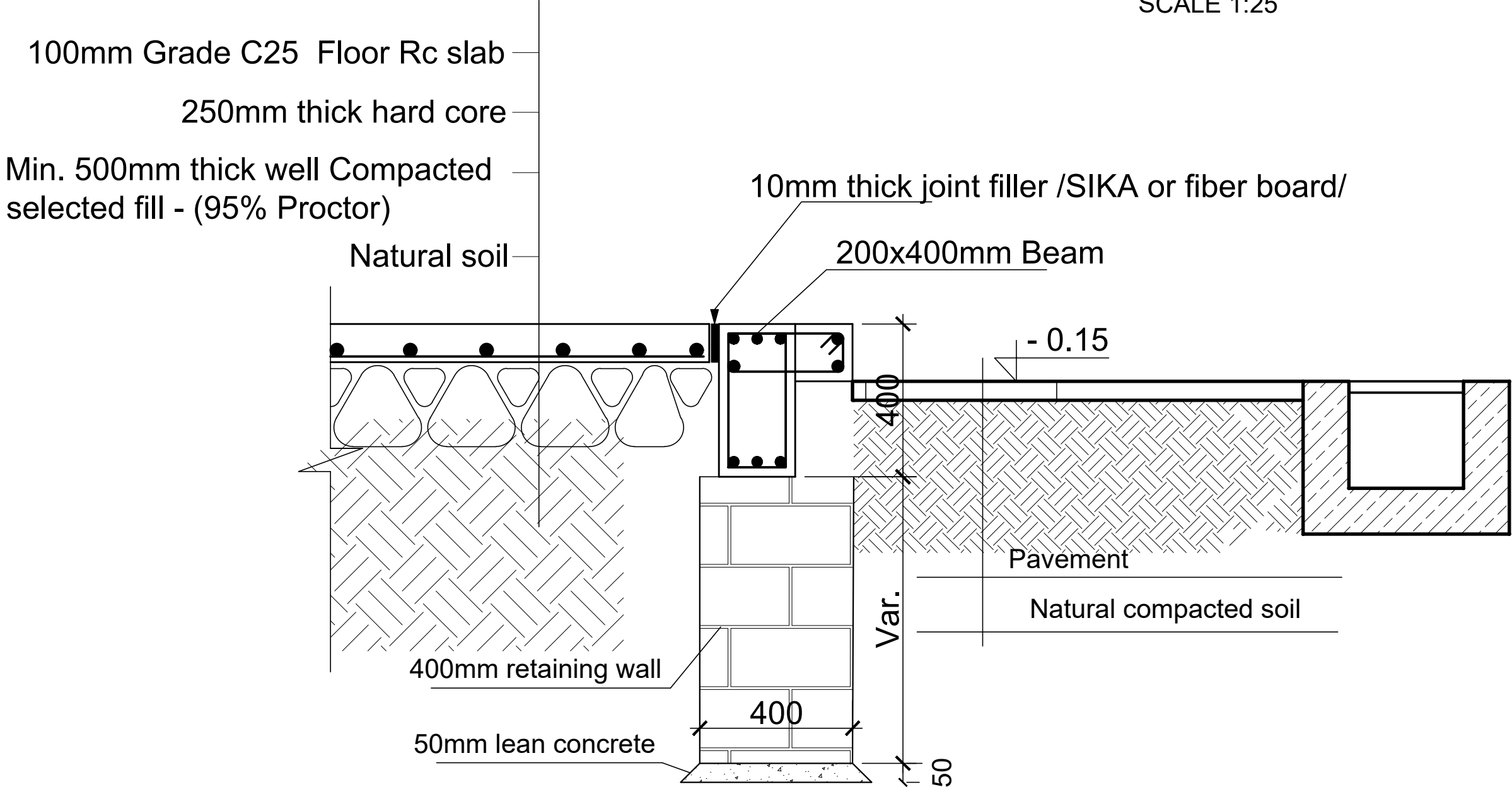
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Funded By:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA
Program:	Implemented By:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS - ETMCO
Project Name:	Design:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS-ETMCO

Drawing Title:					
(ADMINISTRATION BUILDING)					
STAIR DETAILS					
Designed by	Developed by	Discipline:	Dr. No:	Tot. No:	Rev No:
FA	AG	ST	15	29	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:
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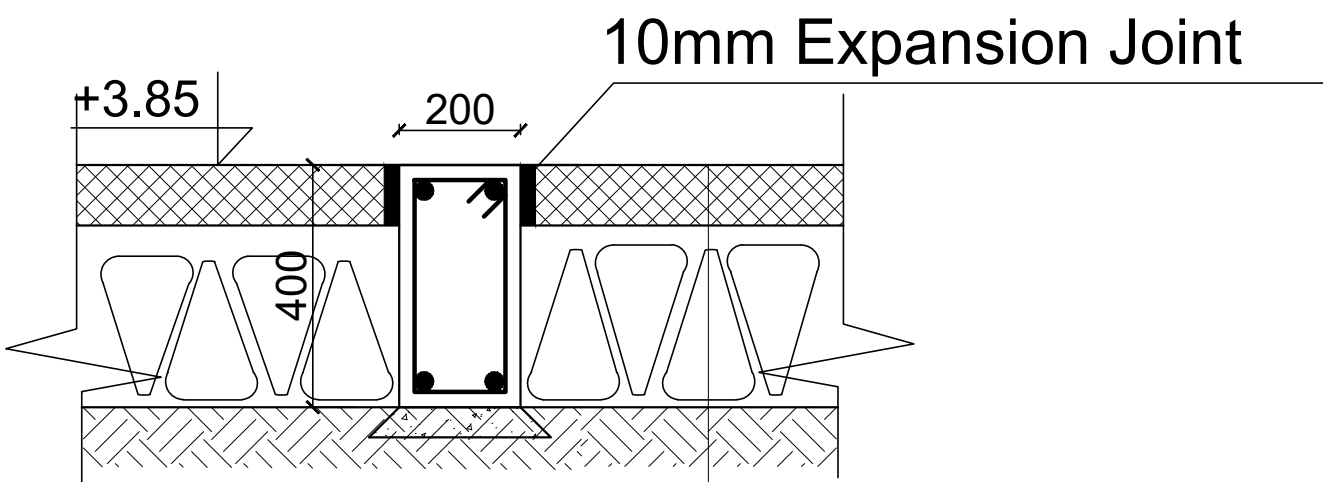
Typical Ground Floor Slab Section & Masonry

SCALE 1:25



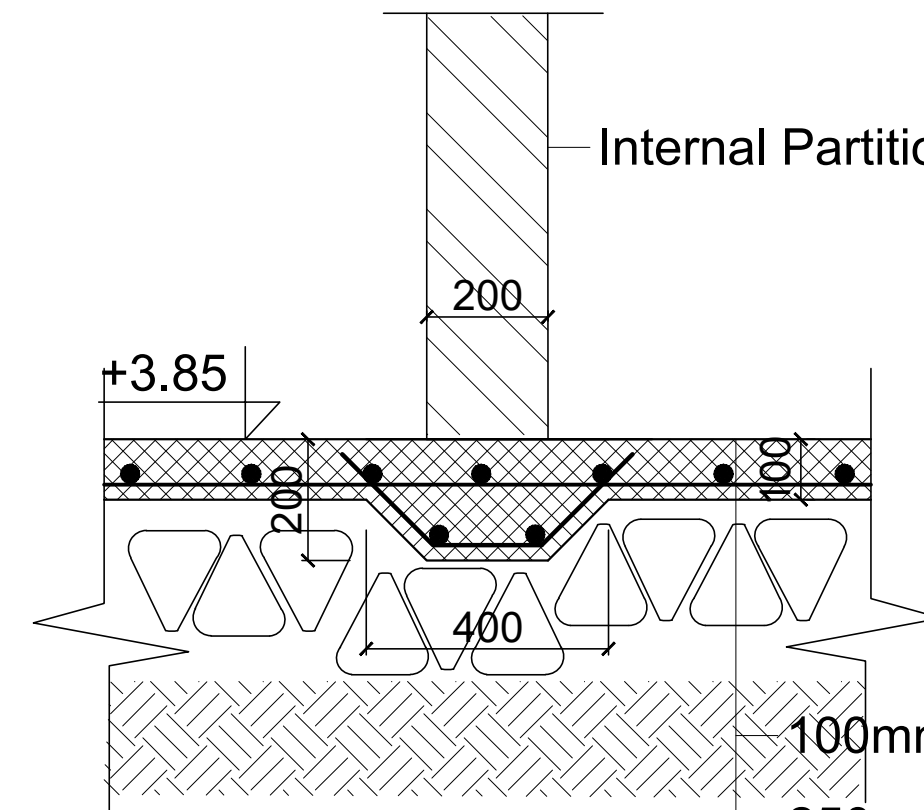
External Section

SCALE 1:10



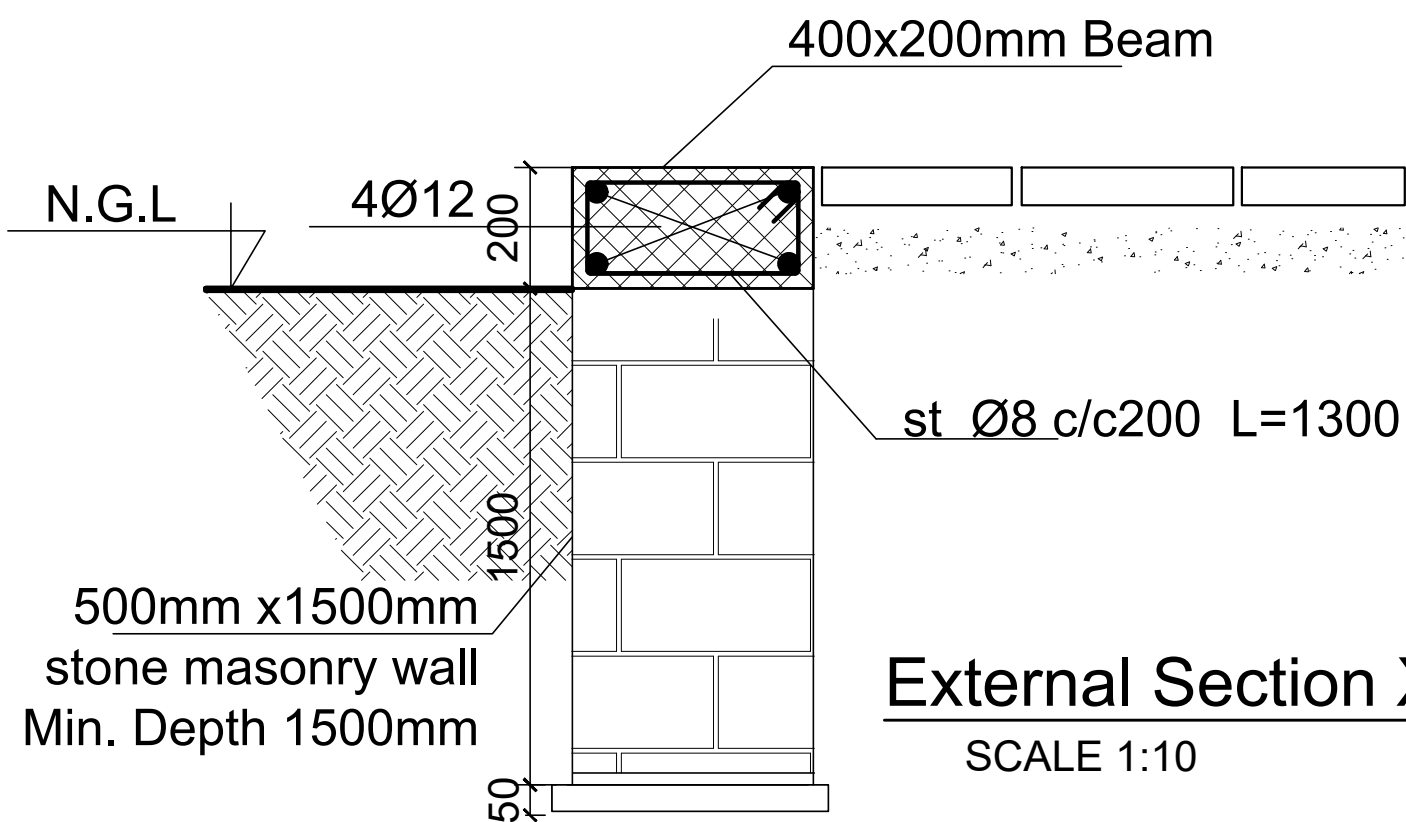
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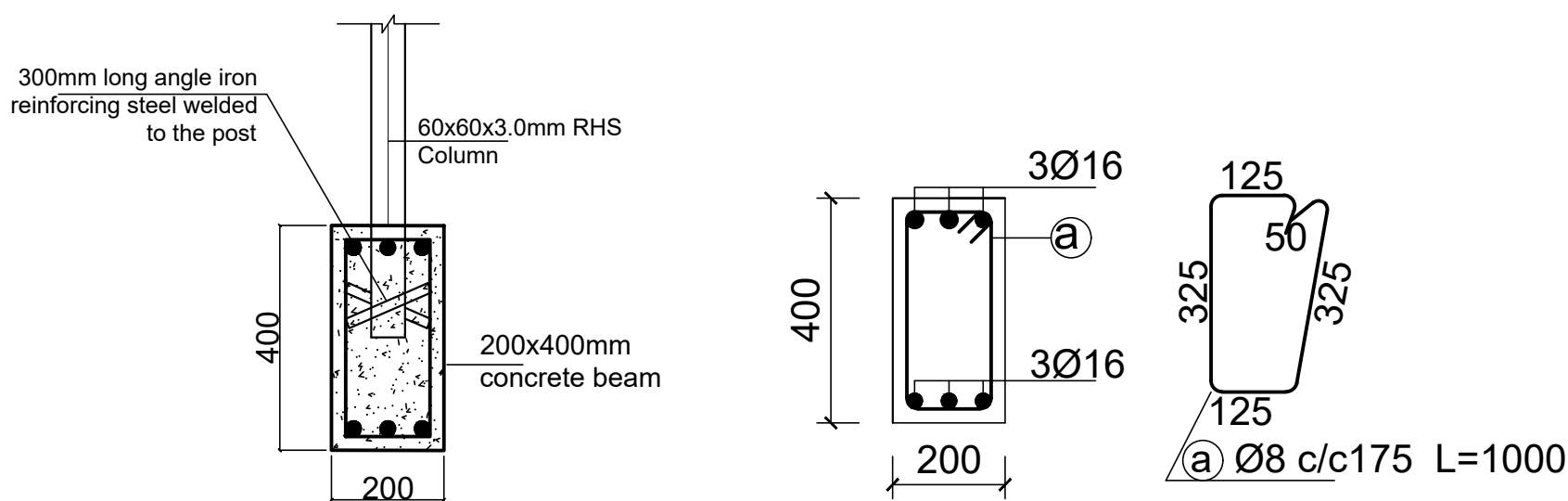
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SCALE 1:10



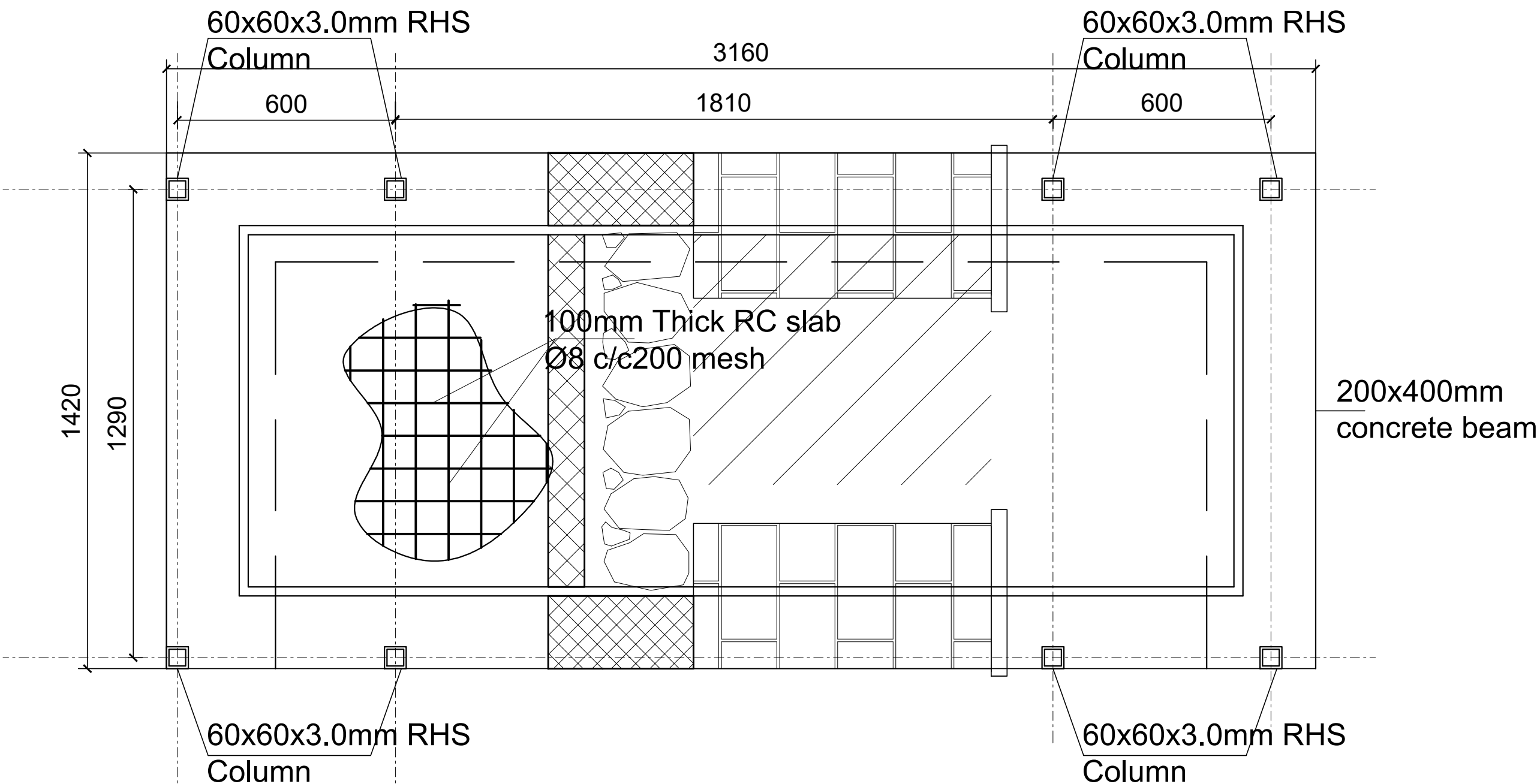
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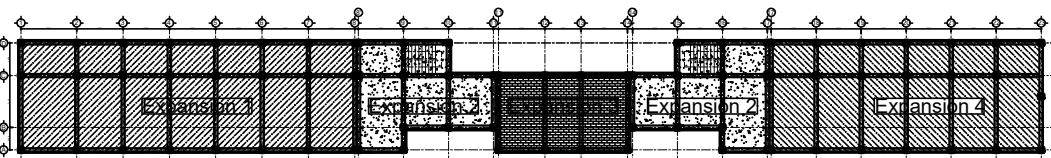
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SCALE 1:10



EXTERNAL STAIR FOUNDATION BEAM DETAIL

GENERAL NOTES:



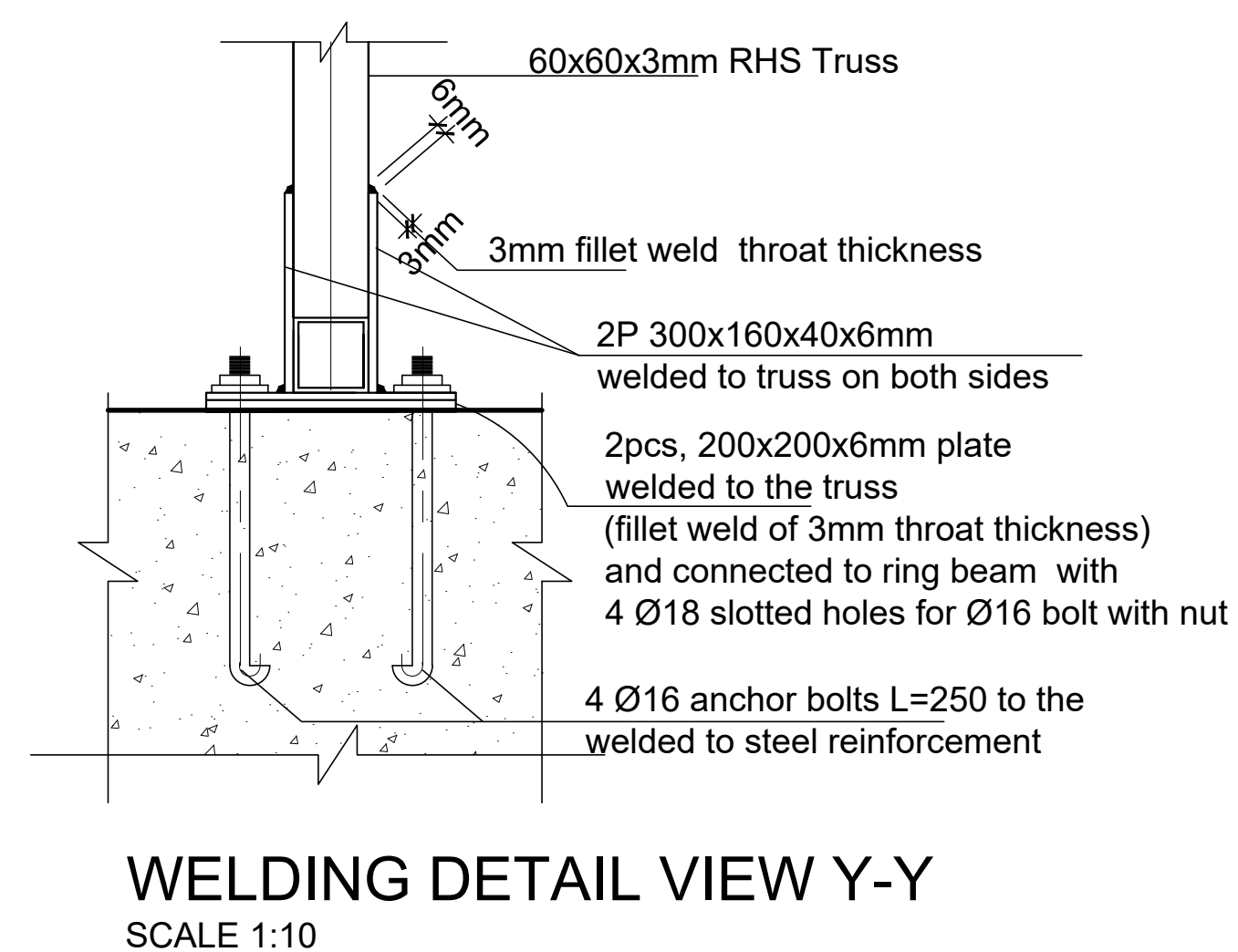
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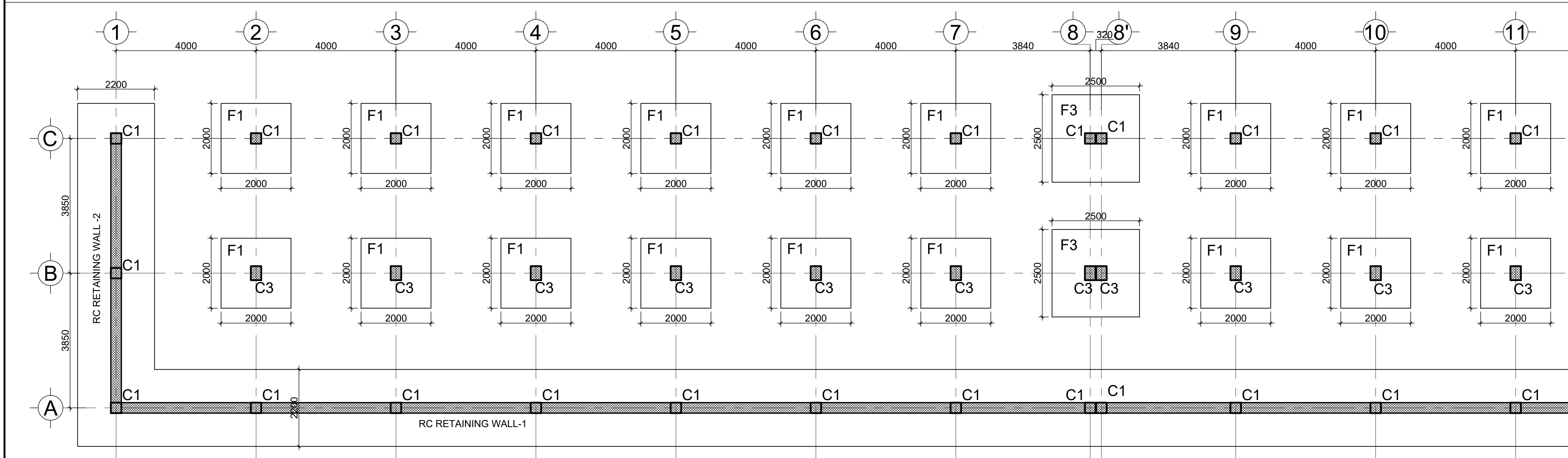
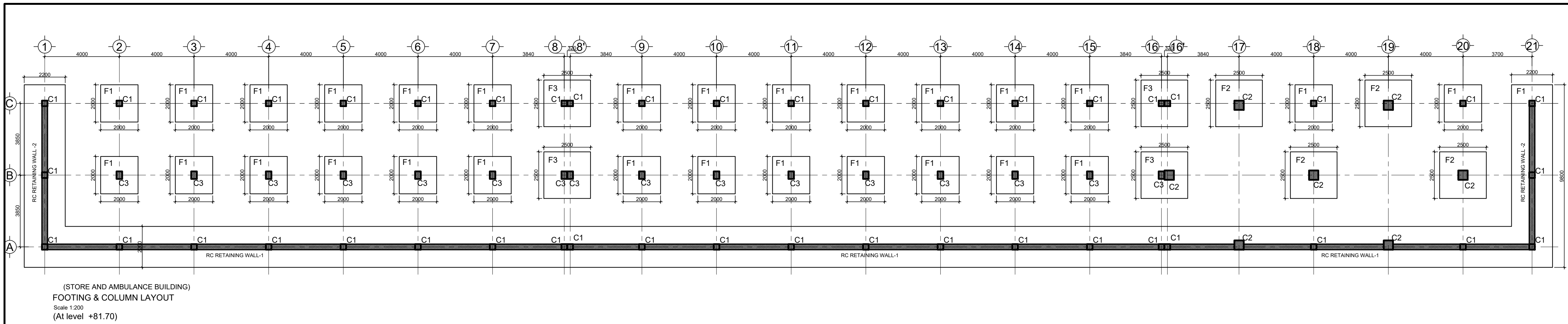
KEY PLAN

Funded By:		Partner:	
MINISTRY OF FOREIGN AFFAIRS		SALESIAN SISTERS ADWA	
ITALIAN AGENCY FOR DEVELOPMENT COOPERATION		UNOPS - ETMCO	
REPUBLIC OF ITALY		UNOPS-ETMCO	
Program:		Design:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS	
Project Name:		Drawing Title:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		(ADMINISTRATION BUILDING)	

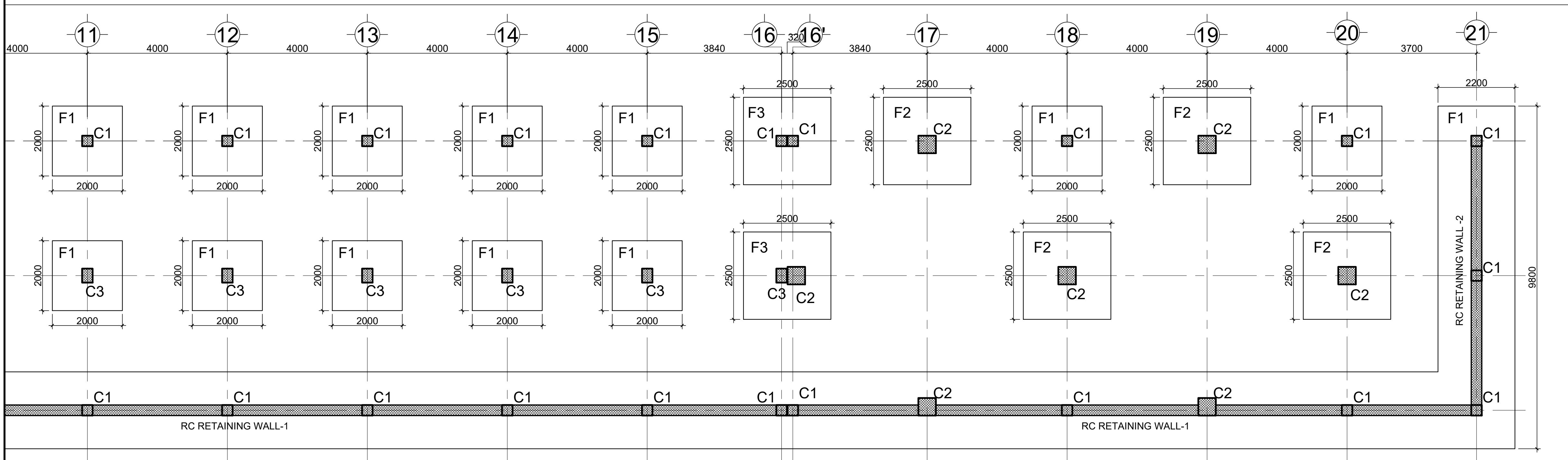
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Designed by	Developed by	Discipline	Dr. No.	Tot. No.	Rev. No.
FA	AG	ST	16	29	R0
Drawn	Checked	Approved	Size	Scale	Date
FM	AE	SH	A1	1:10	01/04/2024



Designed by		Developed by		Discipline:		Dr. No:		Tot. No:		Rev No:	
FA		AG		ST		18		29		R0	
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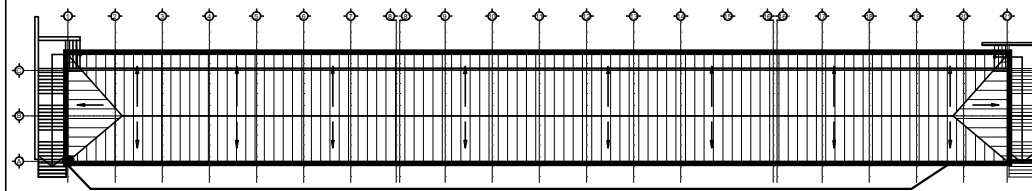


Footings & Ground Floor Layout - Partial Layout



Footings & Ground Floor Layout - Partial Layout

GENERAL NOTES:



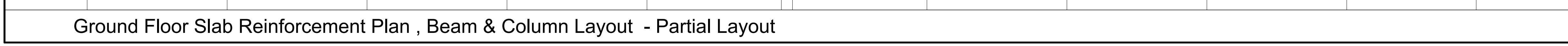
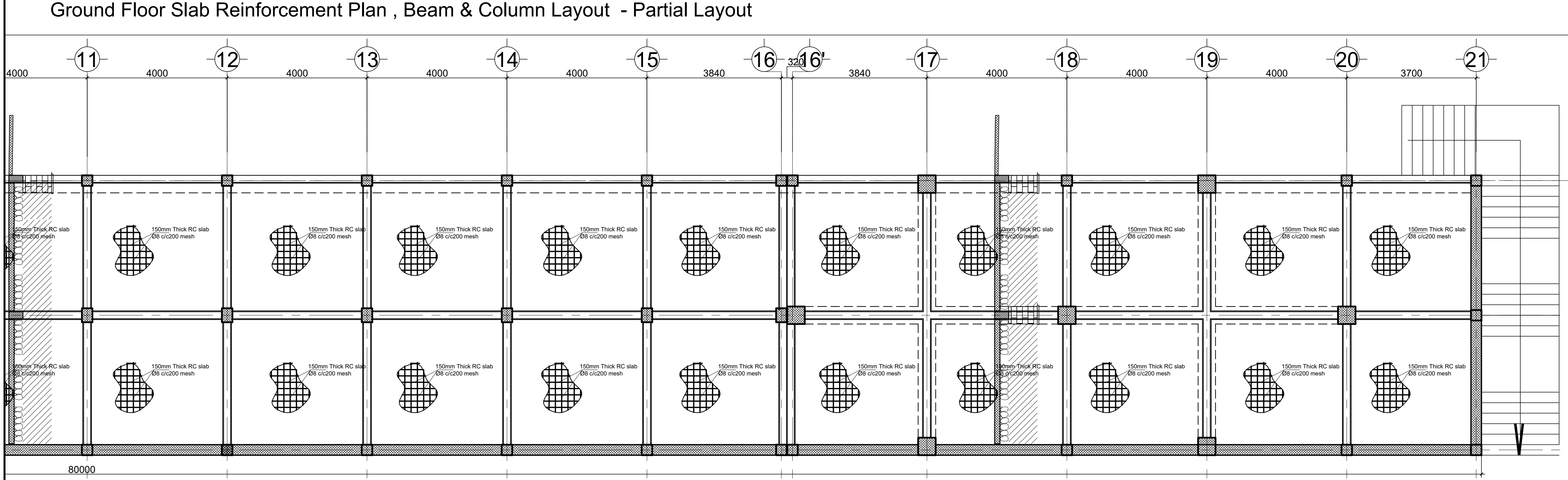
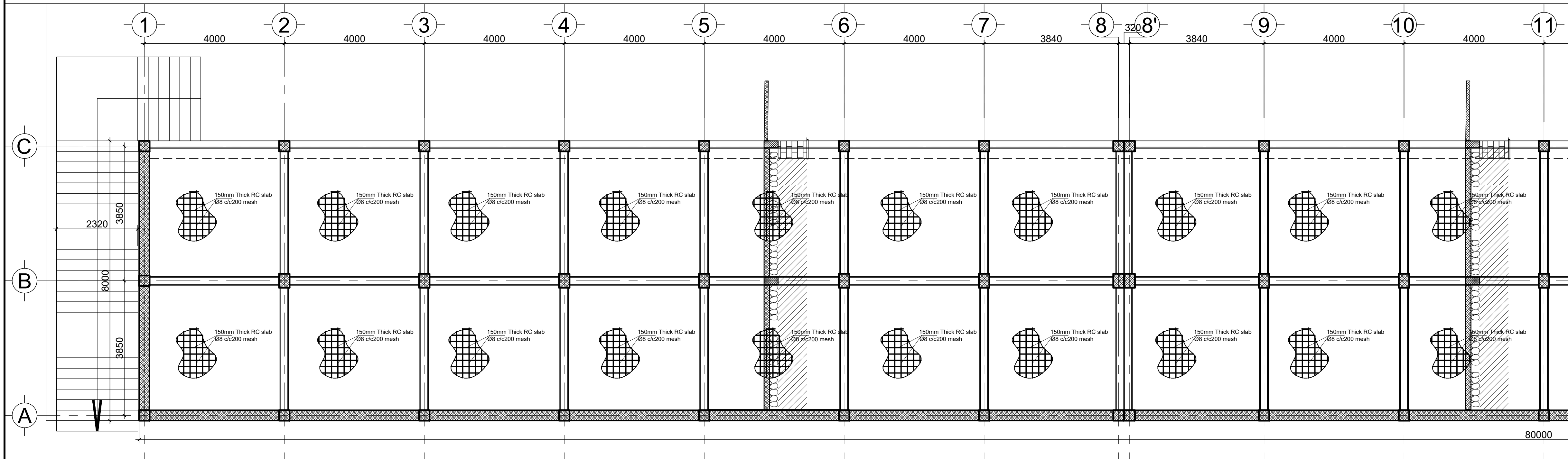
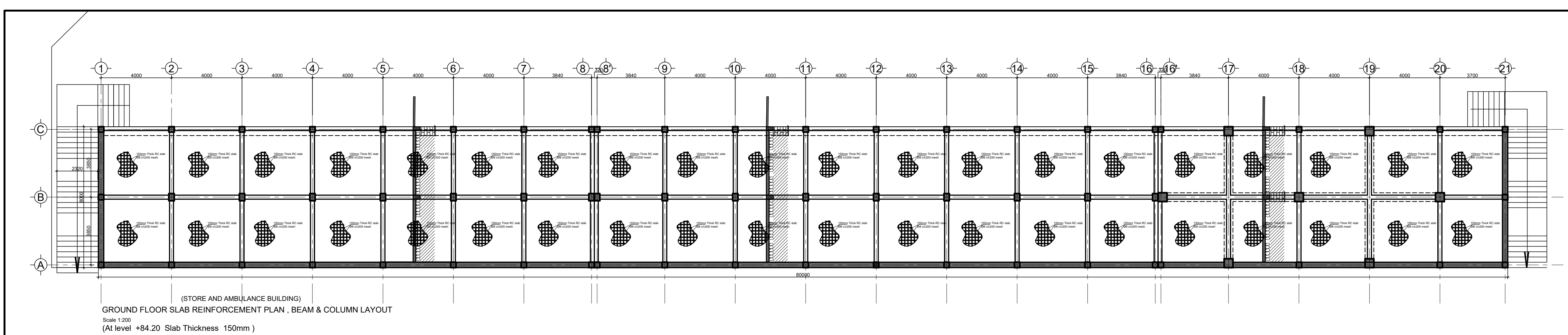
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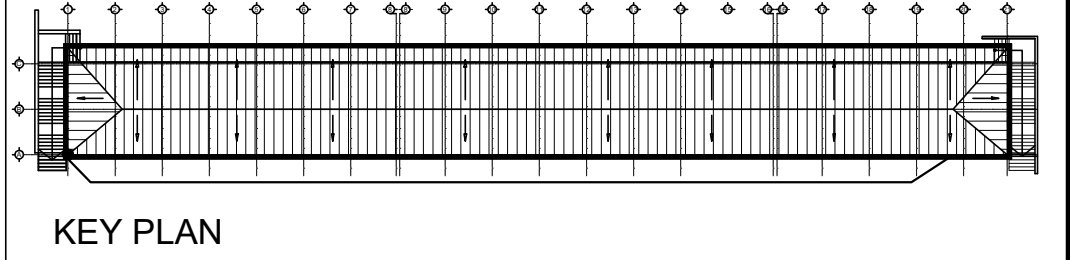
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Funded By:		Partner:	
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY		SALESIAN SISTERS ADWA	
Project Name:		Implemented By:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS - ETMCO	
Design:		UNOPS-ETMCO	

Drawing Title:				
(STORE AND AMBULANCE BUILDING)				
FOOTING AND COLUMN LAYOUT				
Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
FA	ST	19	29	R0
Drawn:	Checked:	Approved:	Size:	Scale:
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Date:				Rev.:
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0			

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Partner: SALESIAN SISTERS ADWA

Program: ITALIAN AGENCY FOR DEVELOPMENT COOPERATION
REPUBLIC OF ITALY

EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL

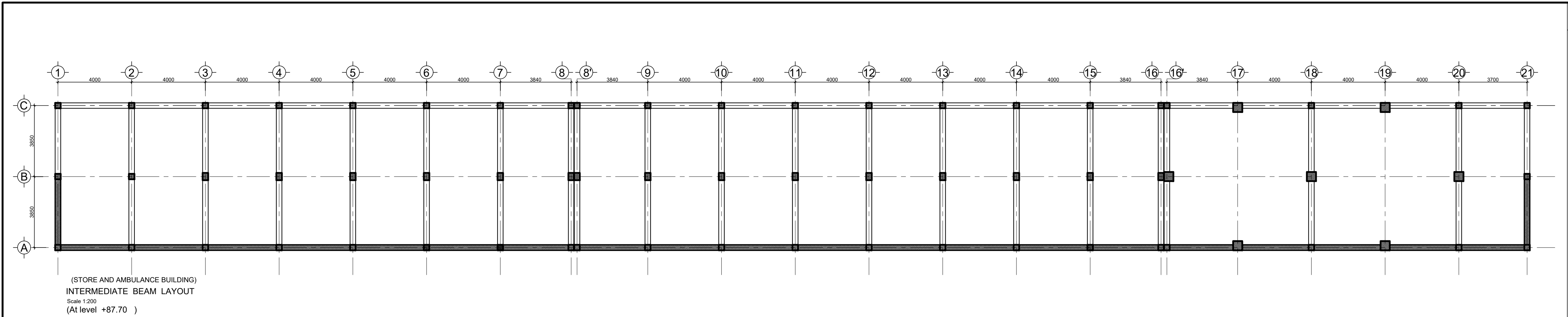
UNOPS - ETMCO

EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL

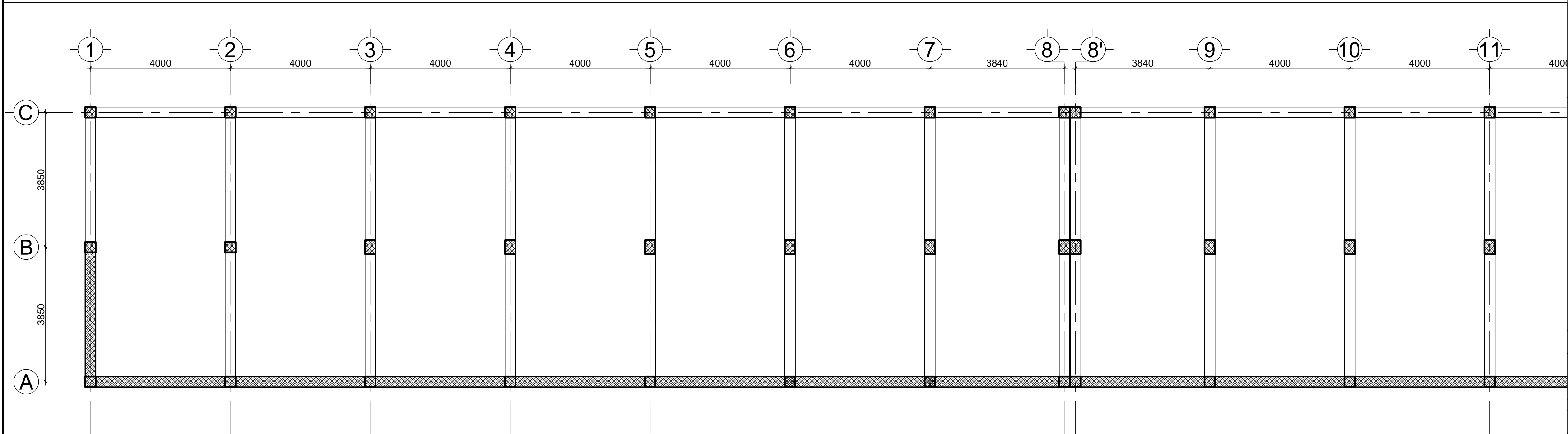
UNOPS-ETMCO

(STORE AND AMBULANCE BUILDING)
GROUND FLOOR SLAB REINFORCEMENT PLAN , BEAM & COLUMN LAYOUT

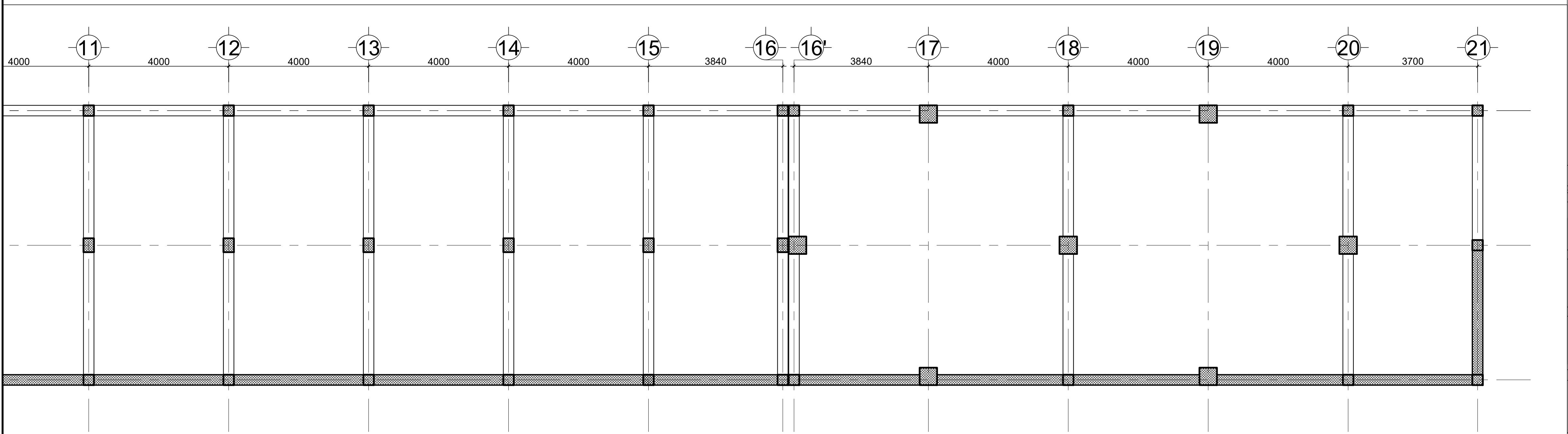
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(STORE AND AMBULANCE BUILDING)
INTERMEDIATE BEAM LAYOUT
Scale 1:200
(At level +87.70)

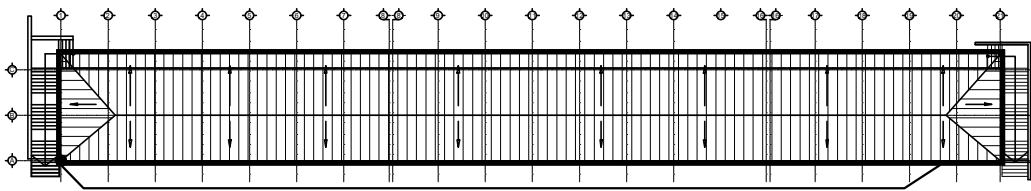


Intermediate Beam Layout - Partial Layout



Intermediate Beam Layout - Partial Layout

GENERAL NOTES:



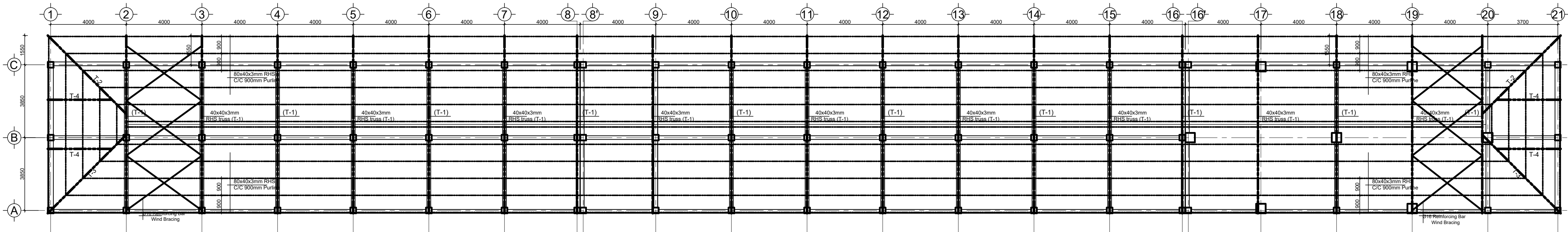
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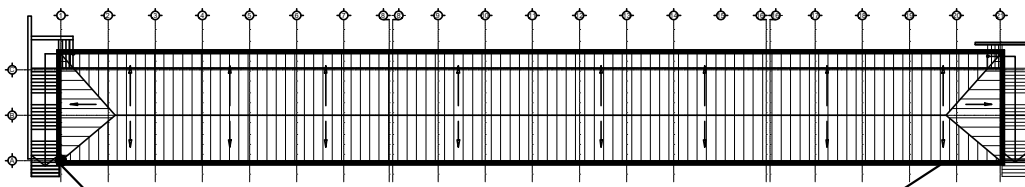
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MINISTRY OF FOREIGN AFFAIRS		SALESIAN SISTERS ADWA	
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Program:		Implemented By:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS - ETMCO	
Project Name:		Design:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS-ETMCO	

Drawing Title:											
(STORE AND AMBULANCE BUILDING)											
INTERMEDIATE BEAM LAYOUT											
Designed by				Discipline:		Dr. No:		Tot. No:		Rev No:	
FA				ST		21		29		R0	
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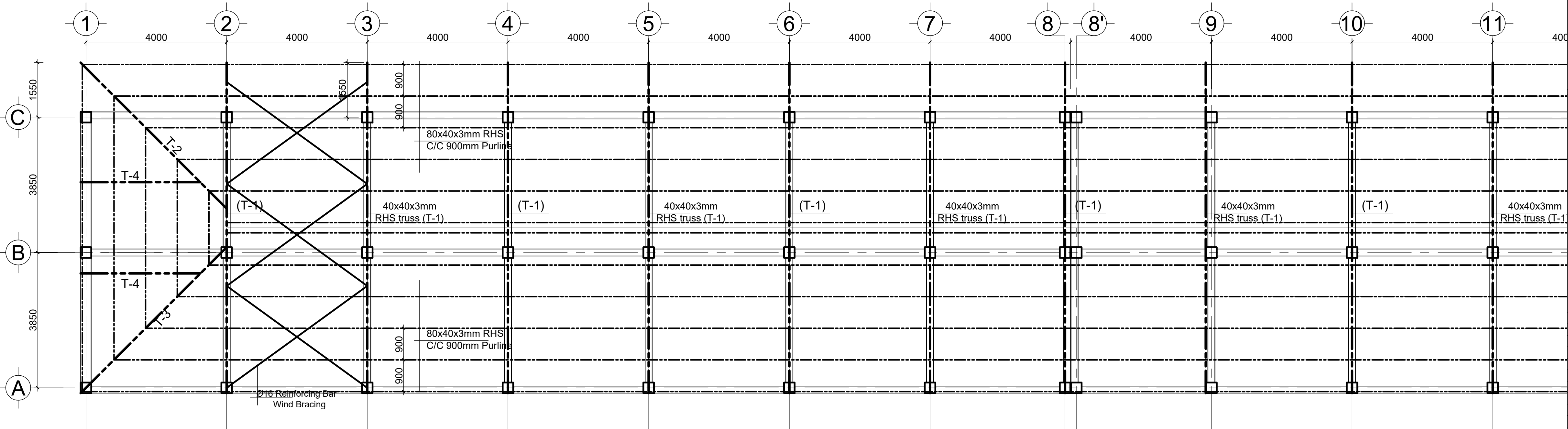


(STORE AND AMBULANCE BUILDING)
ROOF TRUSS LAYOUT (At level +89.45)
Scale 1:200

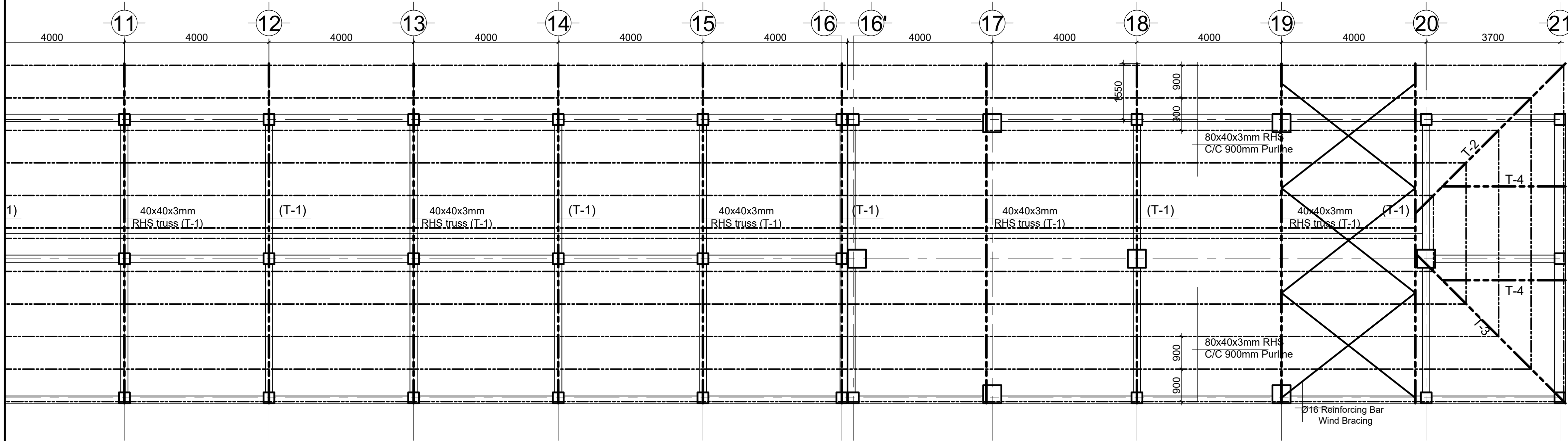
GENERAL NOTES:



KEY PLAN



Roof Truss Layout - Partial Layout



Roof Truss Layout - Partial Layout

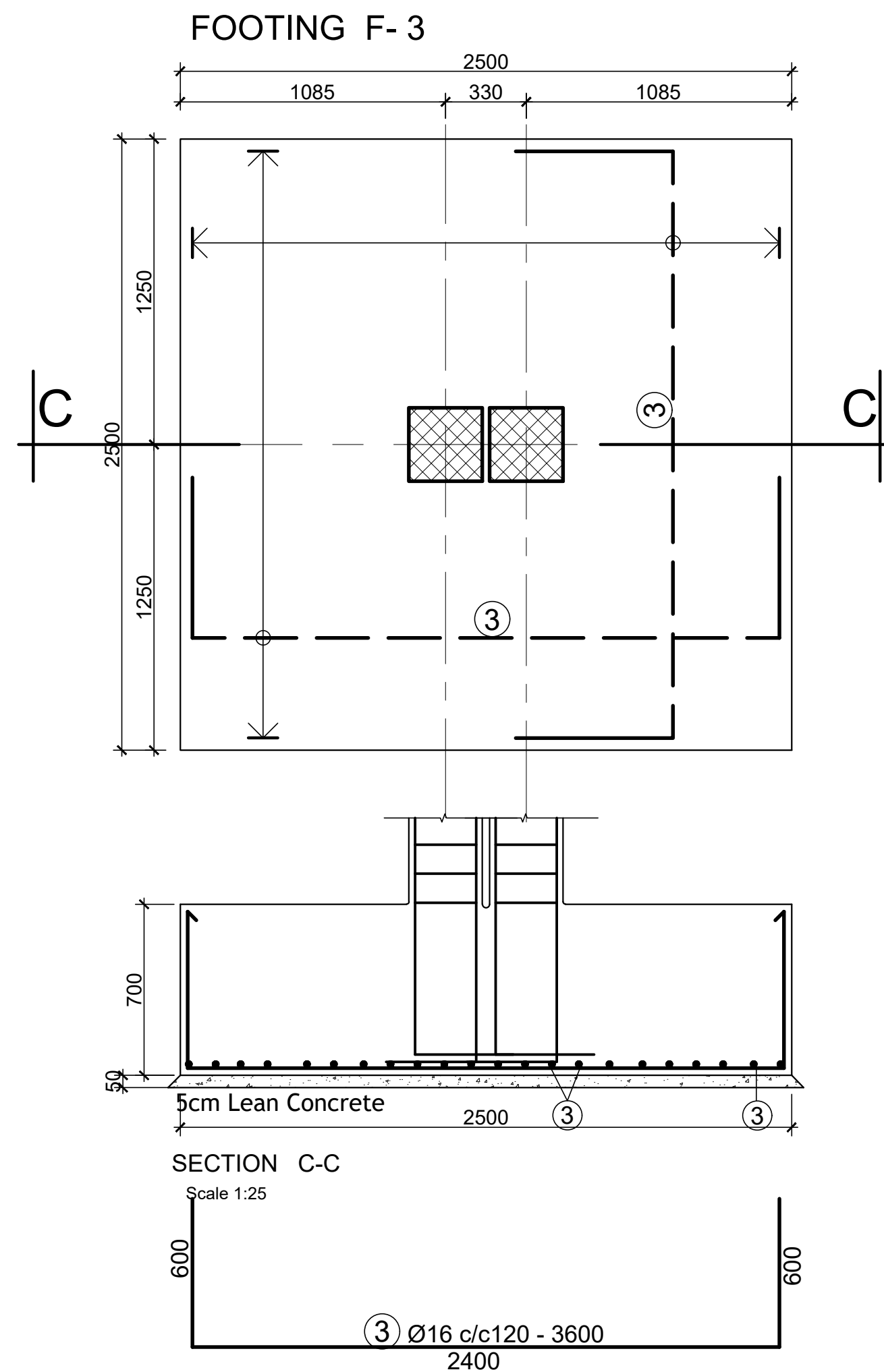
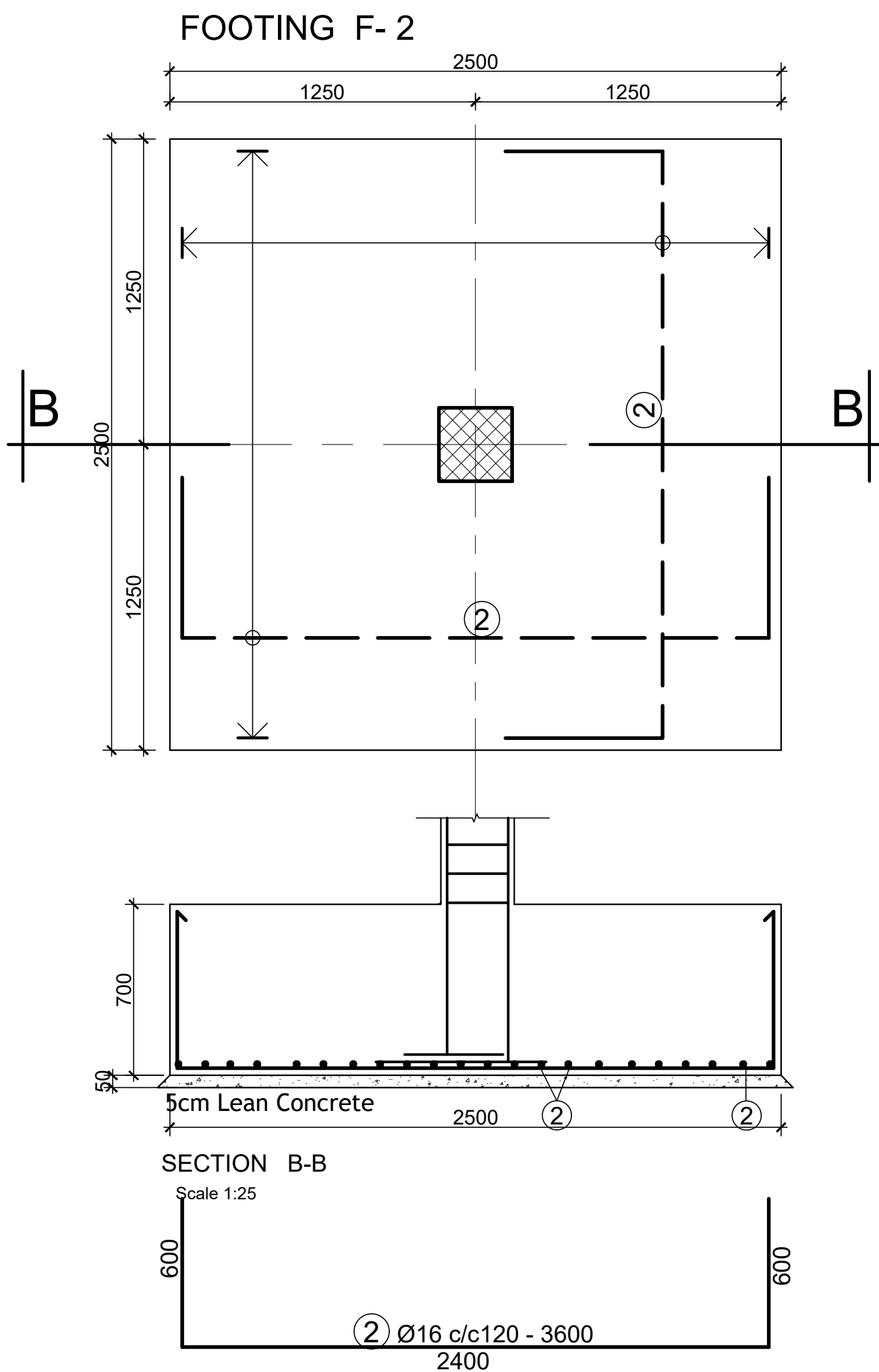
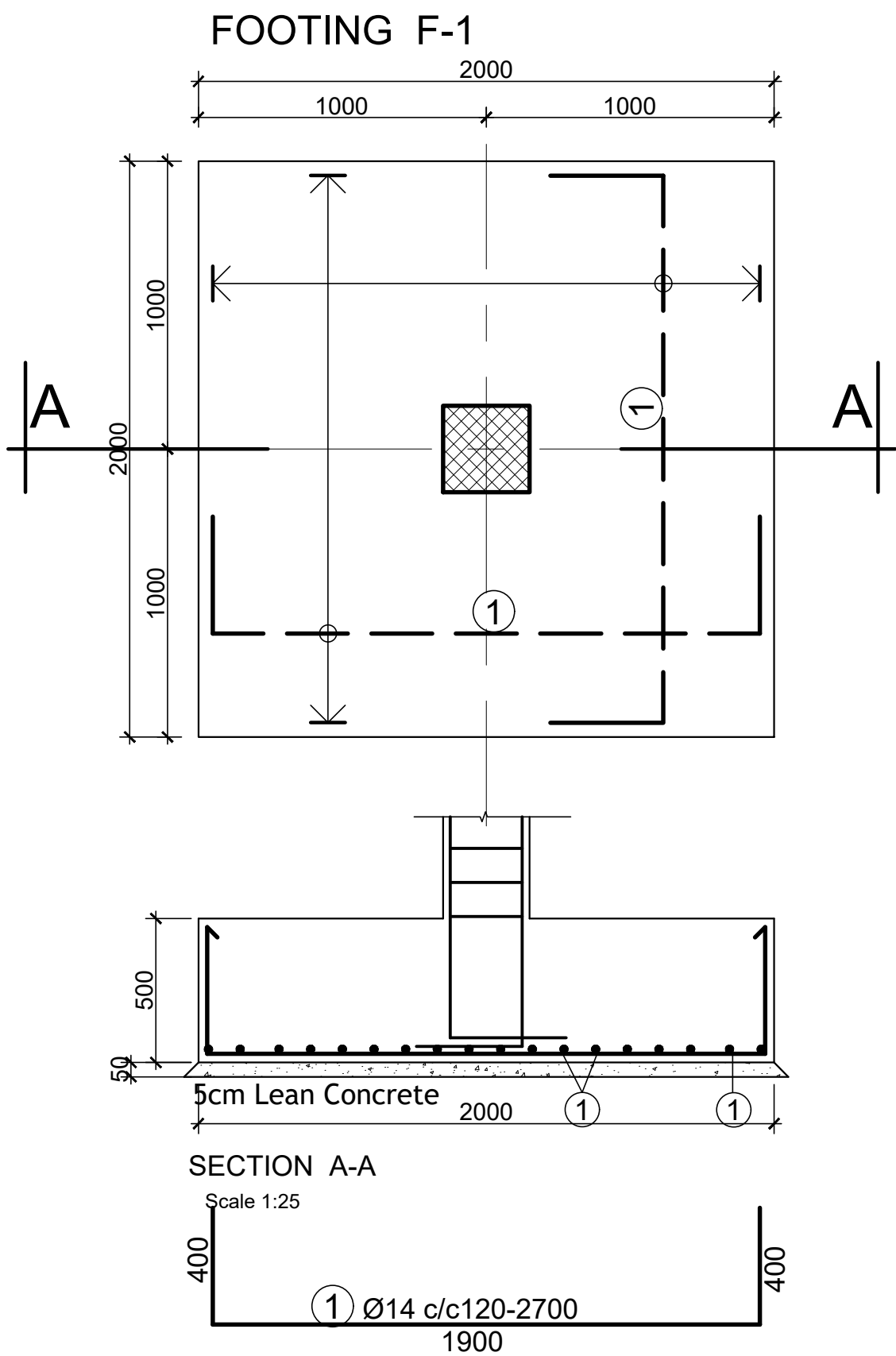
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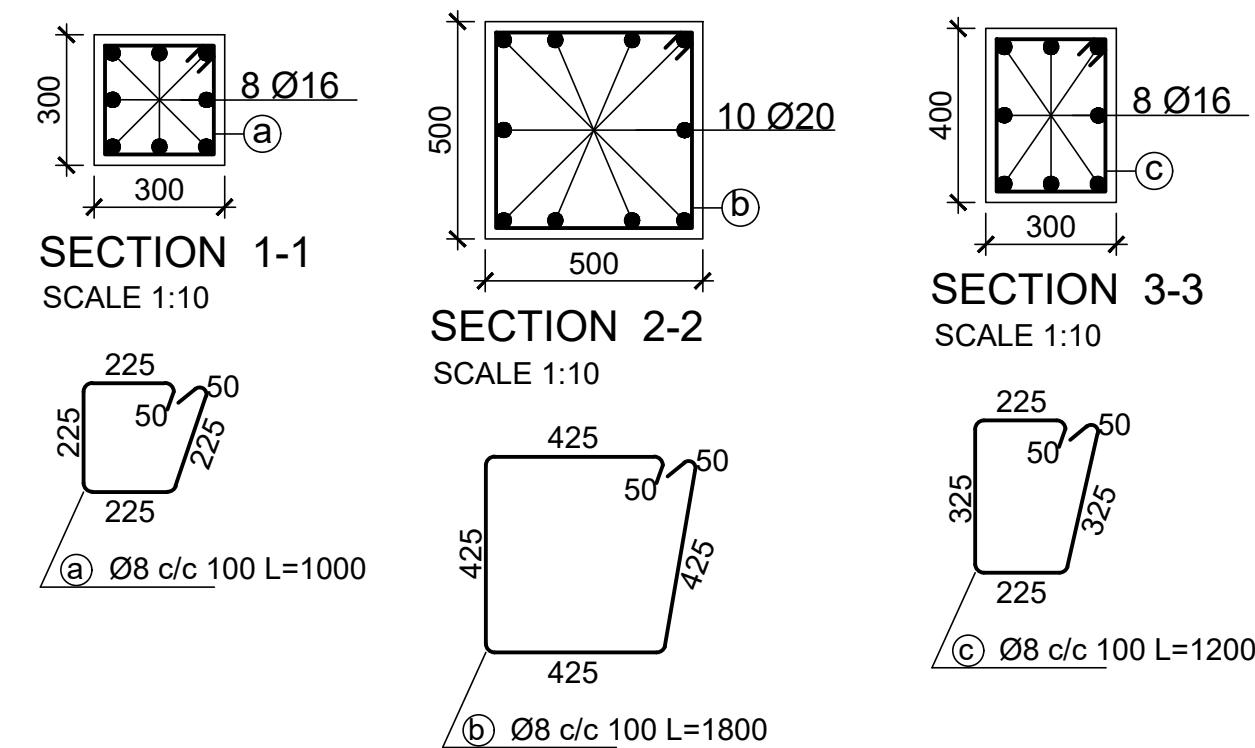
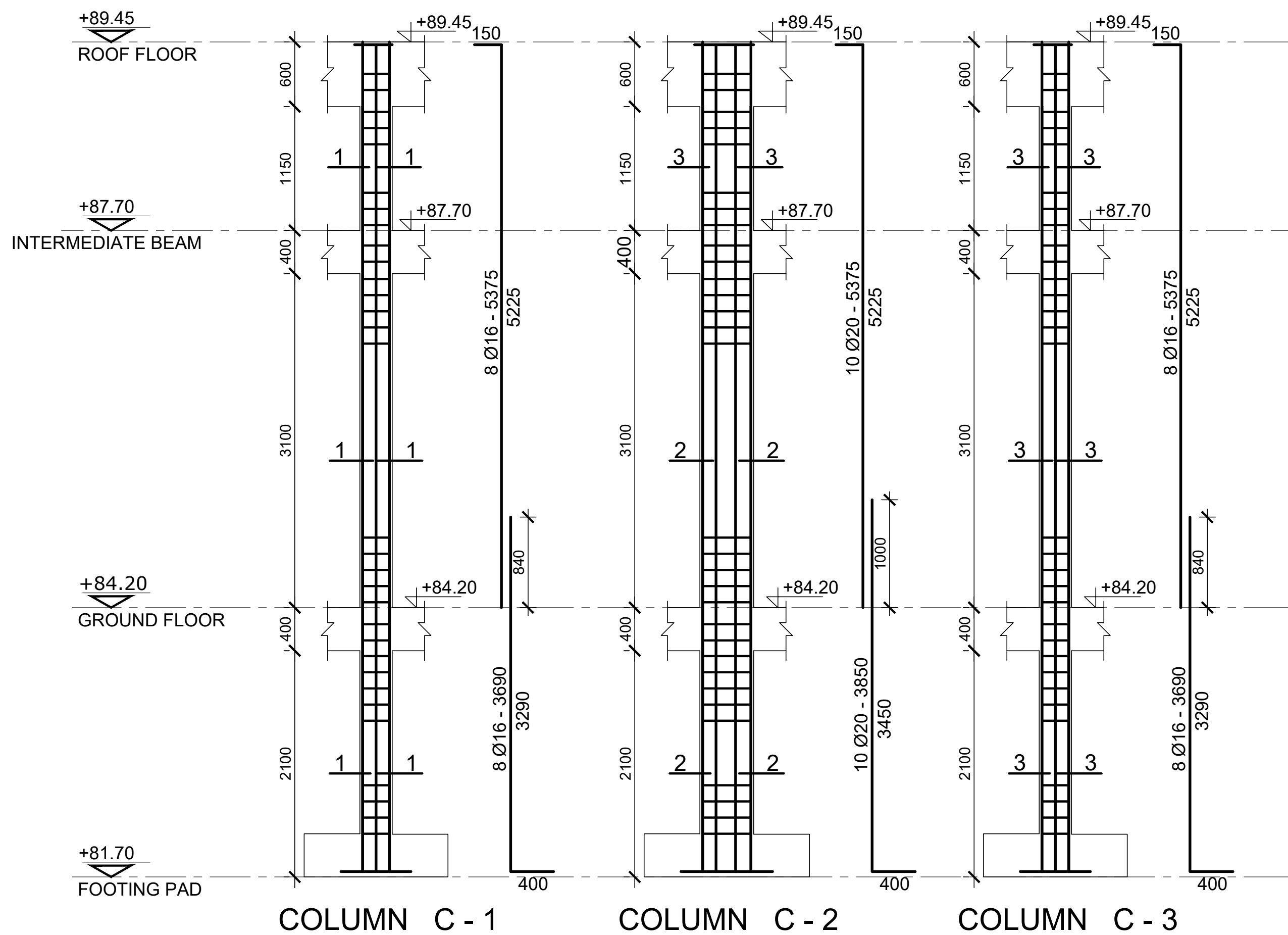
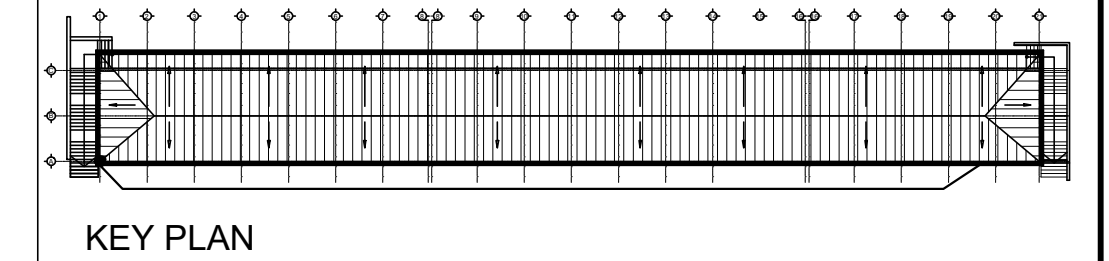
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MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY		SALESIAN SISTERS ADWA	
Program:		Implemented By:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS - ETMCO	
Project Name:		Design:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS-ETMCO	



Drawing Title:					
(STORE AND AMBULANCE BUILDING)					
ROOF TRUSS LAYOUT					
Designed by		Discipline:	Dr. No.	Tot. No.	Rev No.
FA		ST	23	29	R0
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Funded By:		Partner:	
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY		SALESIAN SISTERS ADWA	
Program:		Implemented By:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS - ETMCO	
Project Name:		Design:	
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL		UNOPS-ETMCO	

Drawing Title:					
(STORE AND AMBULANCE BUILDING)					
FOOTING and COLUMN DETAILS					
Designed by	Developed by	Discipline:	Dr. No:	Tot. No:	Rev No:
FA	AG	ST	24	29	R0
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DEVELOPMENT COOPERATION
REPUBLIC OF ITALY

SALESIAN SISTERS ADWA

Program:	EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL
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Implemented By:

Project Name: EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL

UNOPS-ETMCO

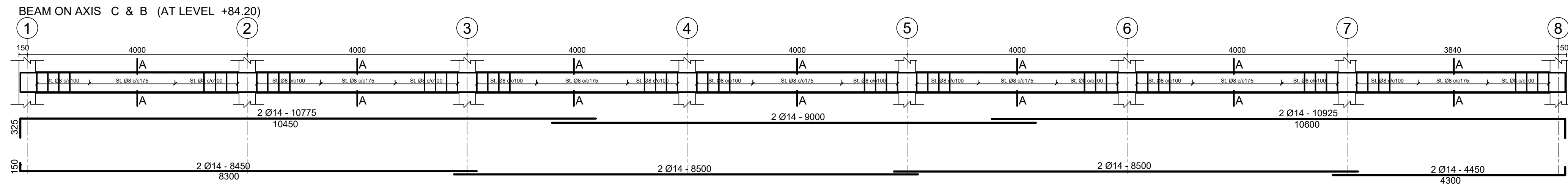
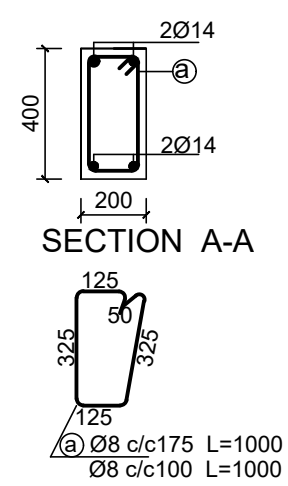


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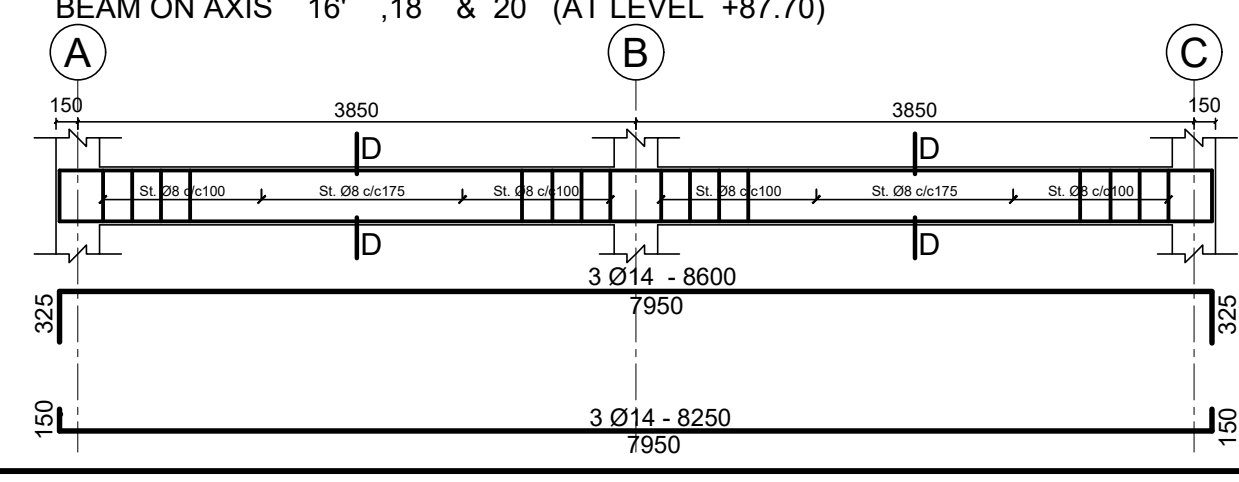
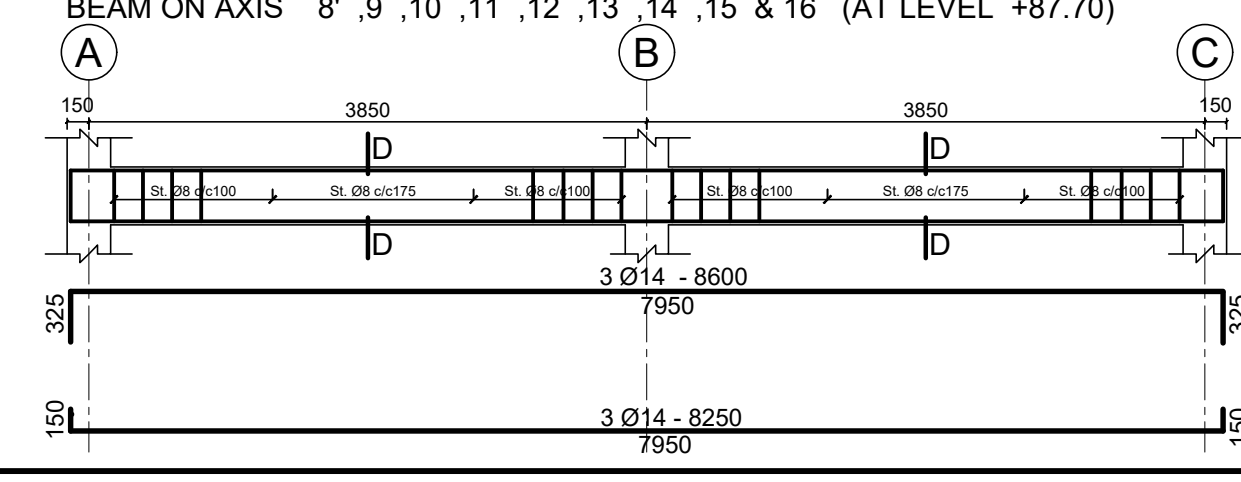
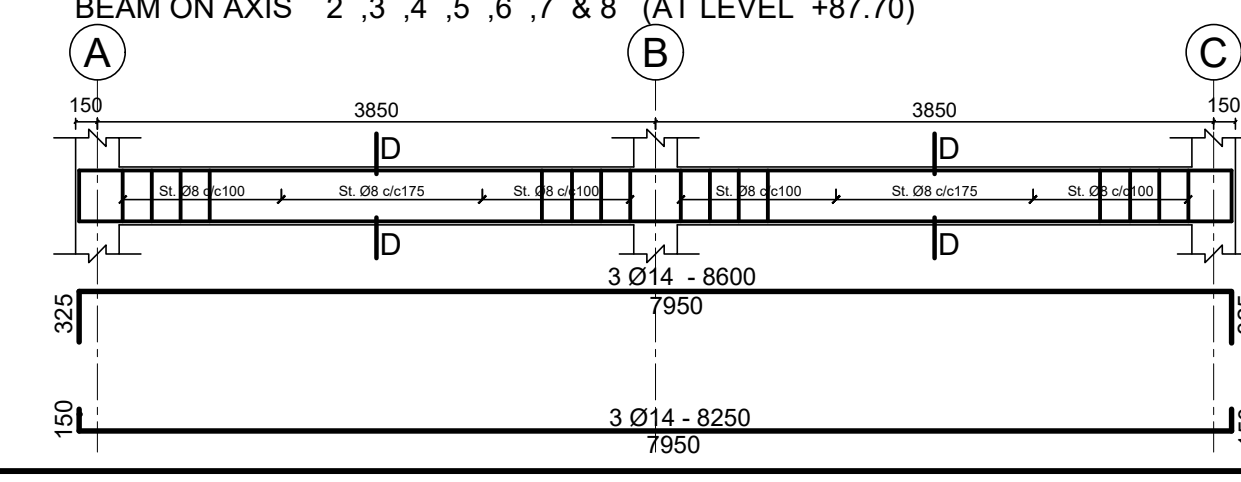
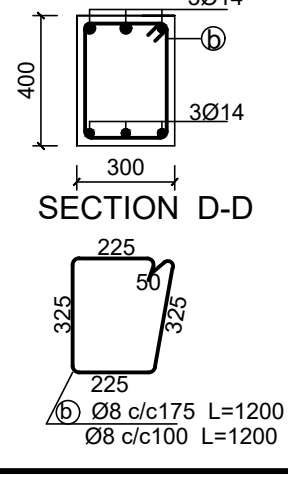
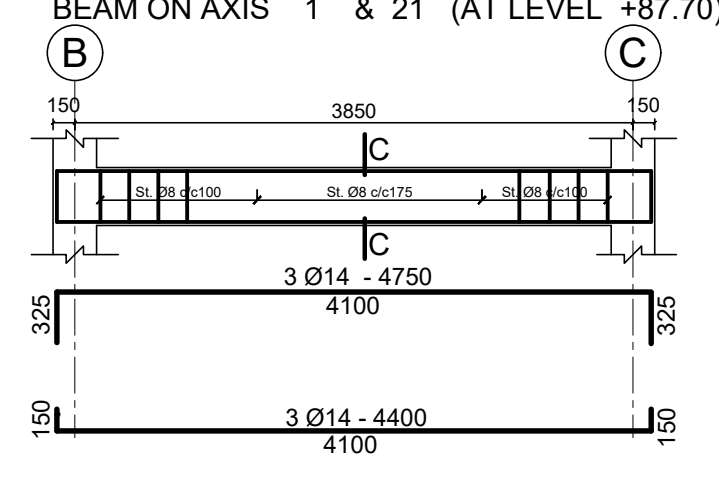
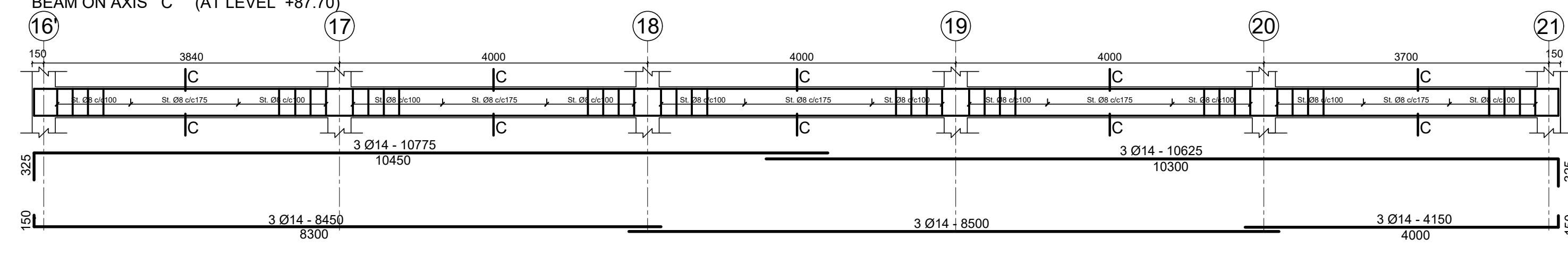
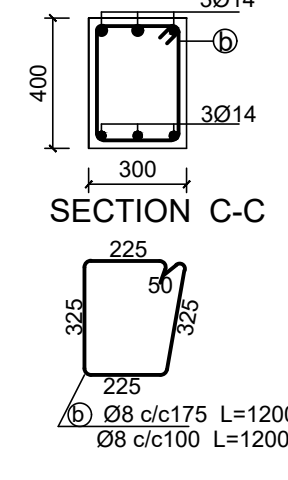
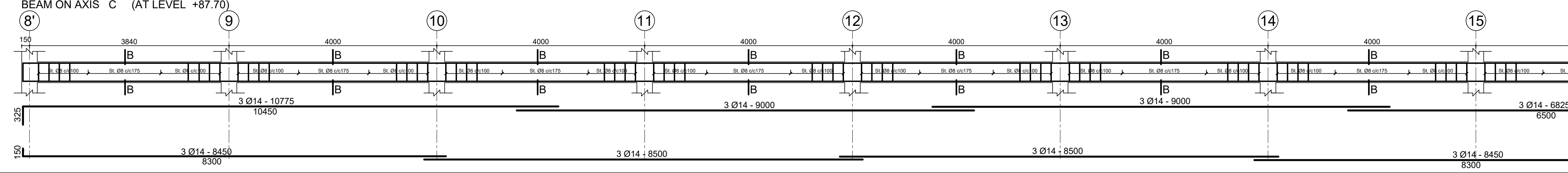
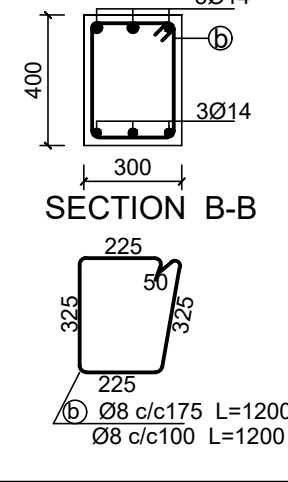
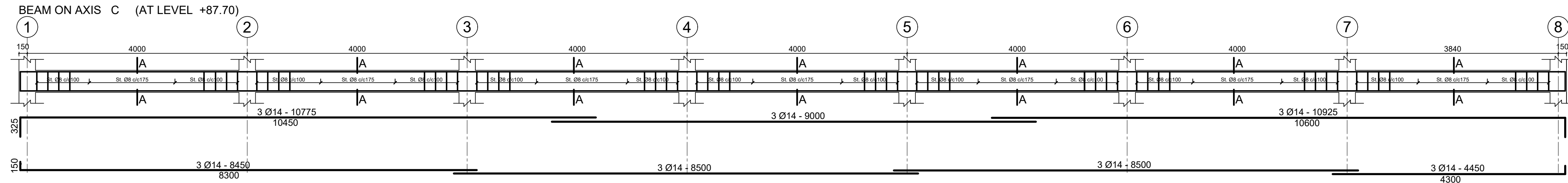
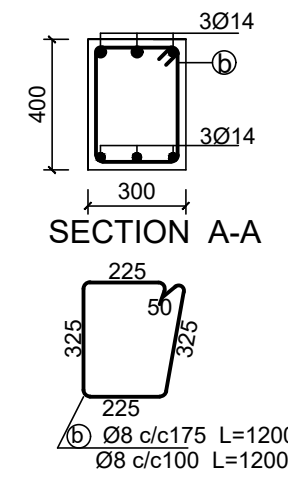
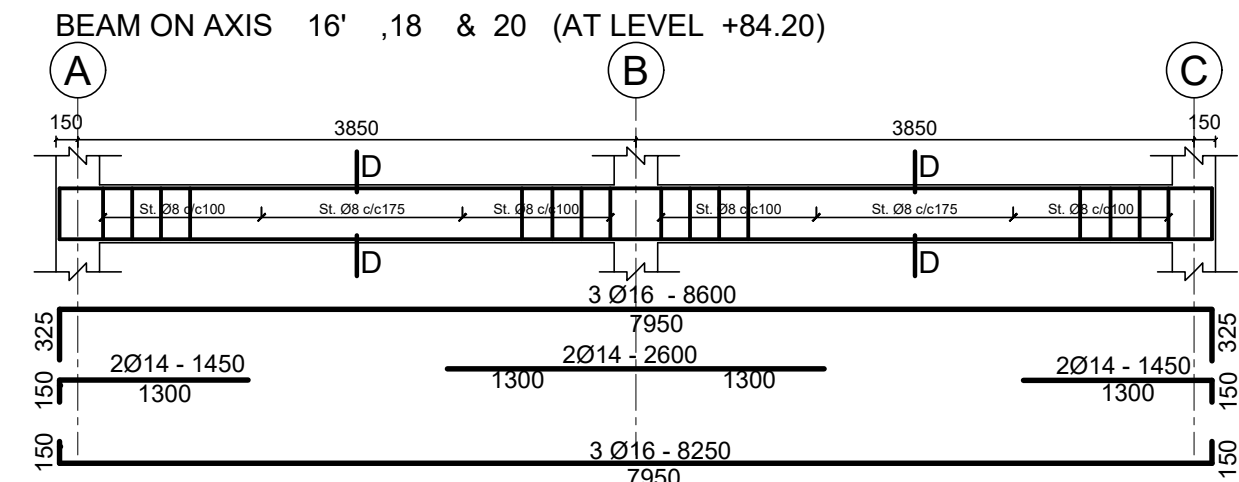
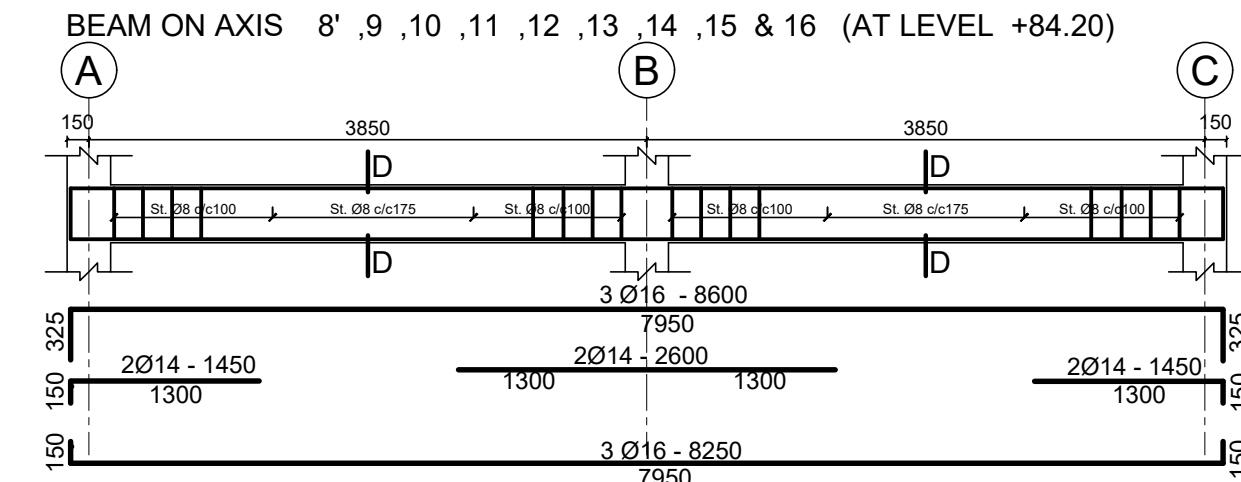
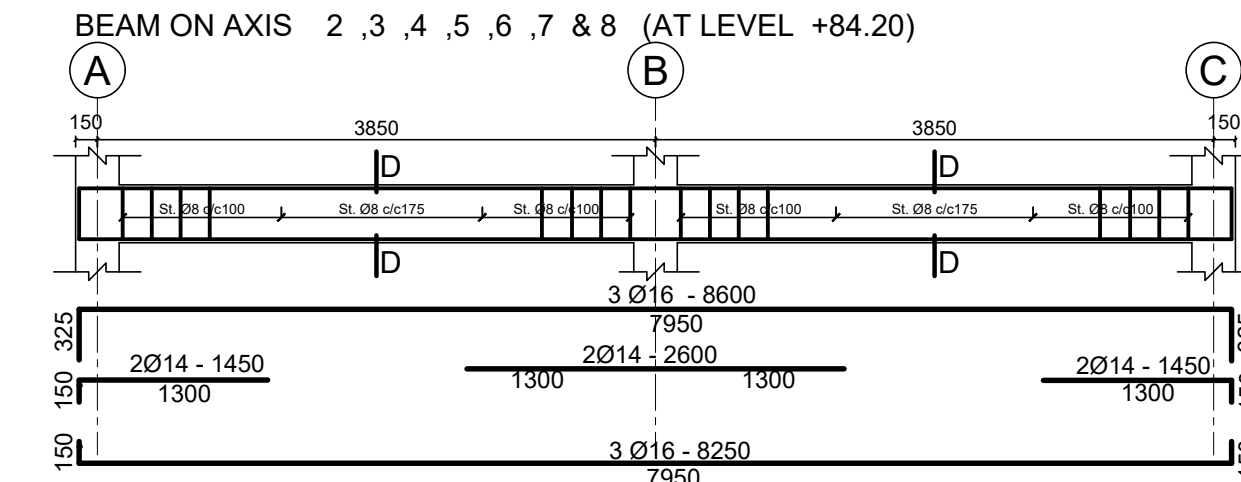
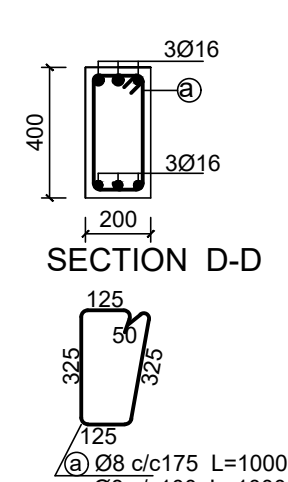
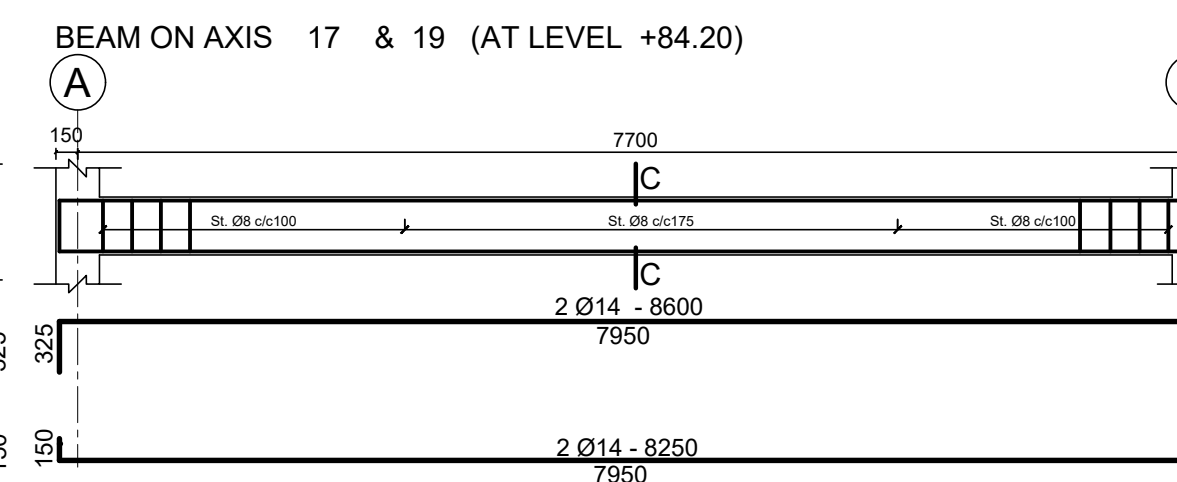
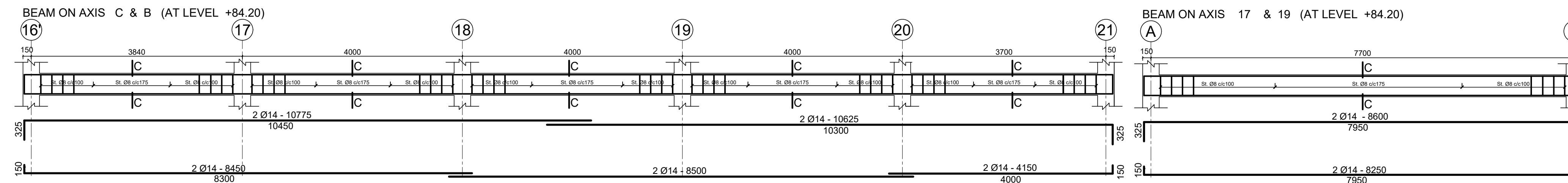
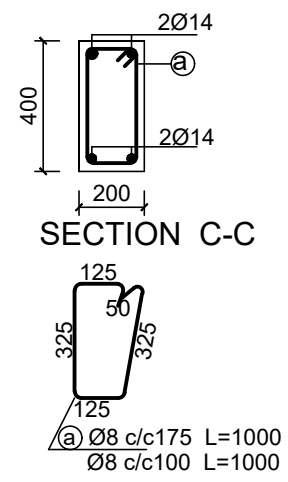
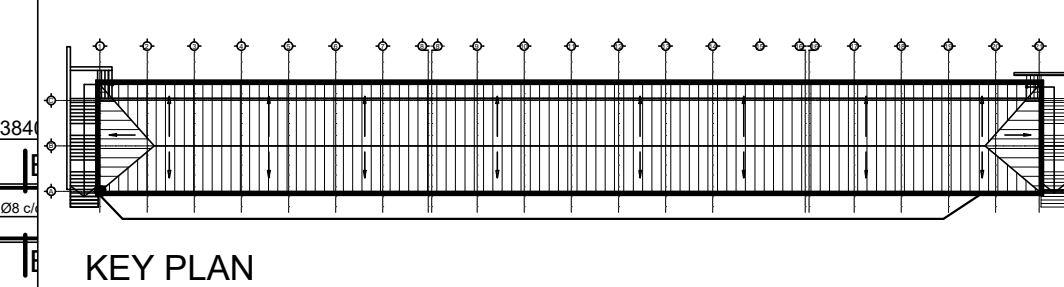
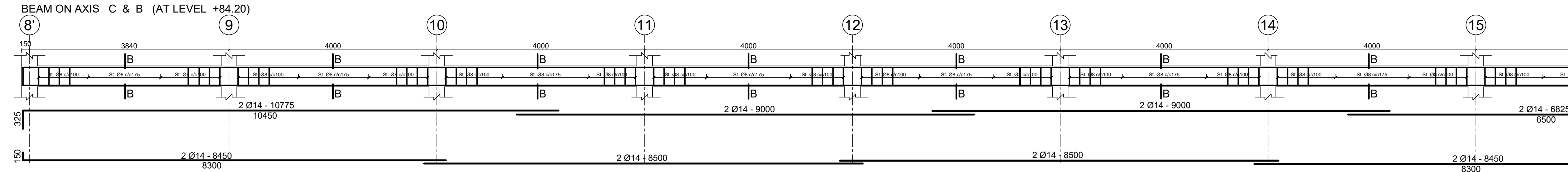
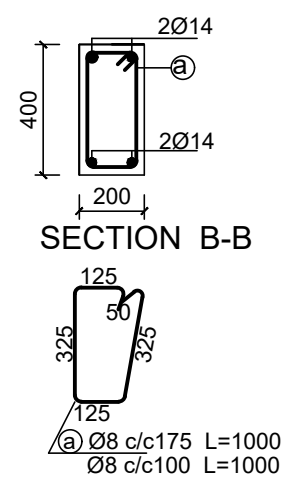
(STORE AND AMBULANCE BUILDING)

RETAINING WALL DETAILS

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Drawn:		Checked:		Approved:		Size:		Scale:		Date:	
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GENERAL NOTES:



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	Description:			

KEY PLAN

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Funded by:

MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY

Partner:	
RS	SALESIAN SISTERS ADWA

Program:	EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL
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Implemented By:	UNOPS - ETMCO
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Project Name:

Design:	
UNOPS-ETMCO	

EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL

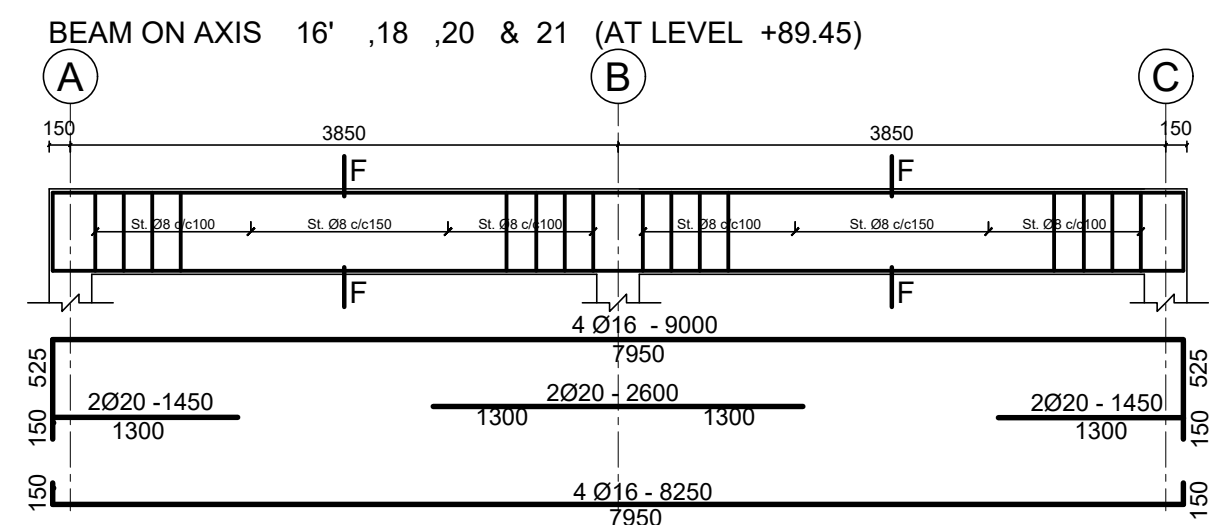
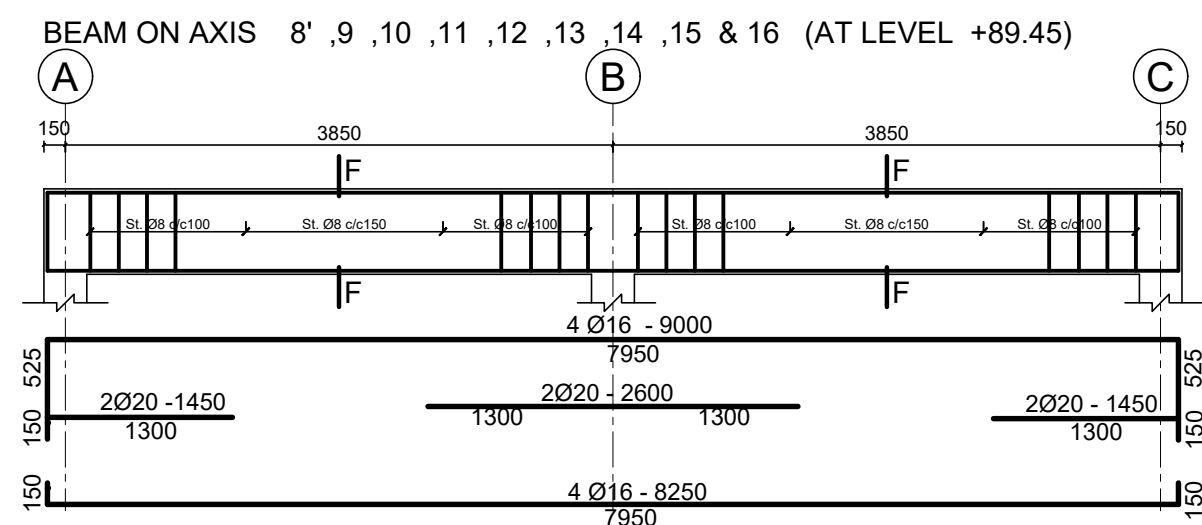
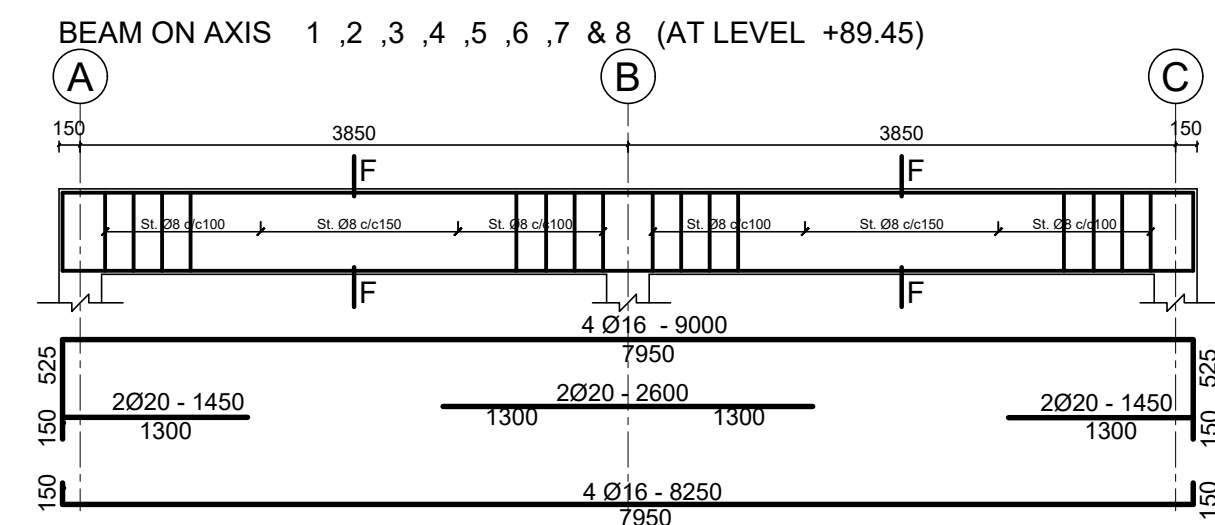
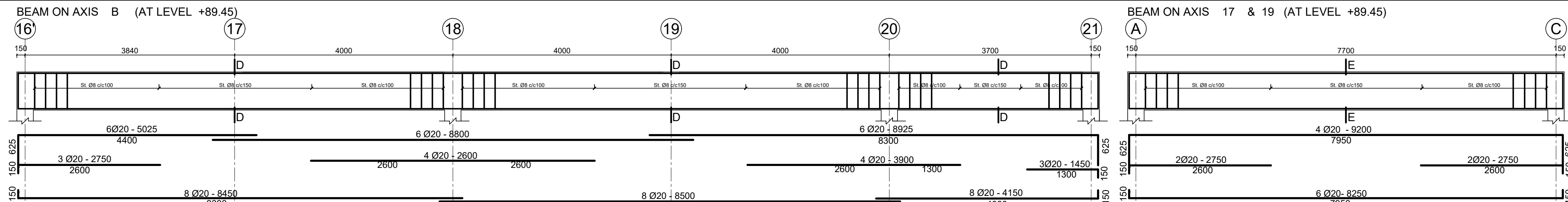
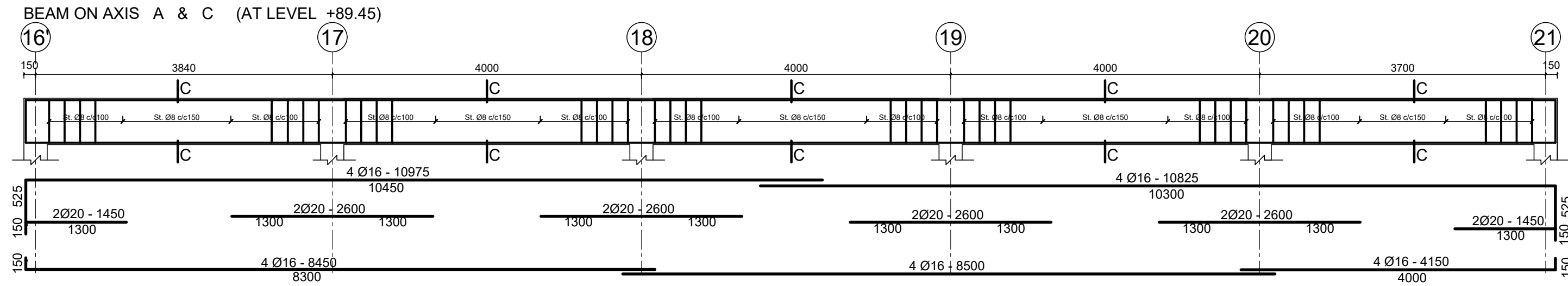
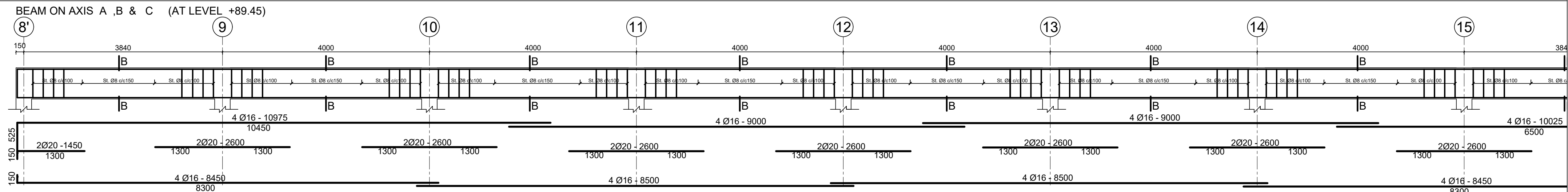
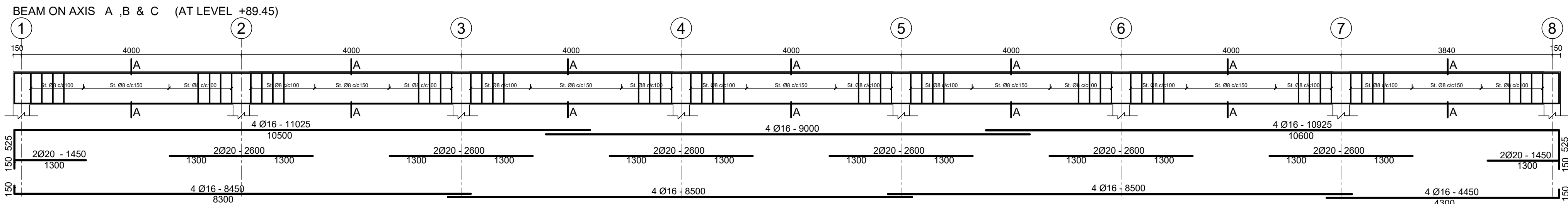
UNOPS-ETMCO

Drawing Title:

(STORE AND AMBULANCE BUILDING)

FOOTING and COLUMN LAYOUT

Designed by		Developed by		Discipline:	Dr. No.	Tot. No.		Rev. No.	
FA		AG		ST	26	29		R0	
Drawn:	Checked:	Approved:	Size:	Scale:	Date:		Rev.:		
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KEY PLAN

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Rev.:	Date:	Description:	Approved
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Funded By:	Partner:
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S	SALESIAN SISTERS ADWA
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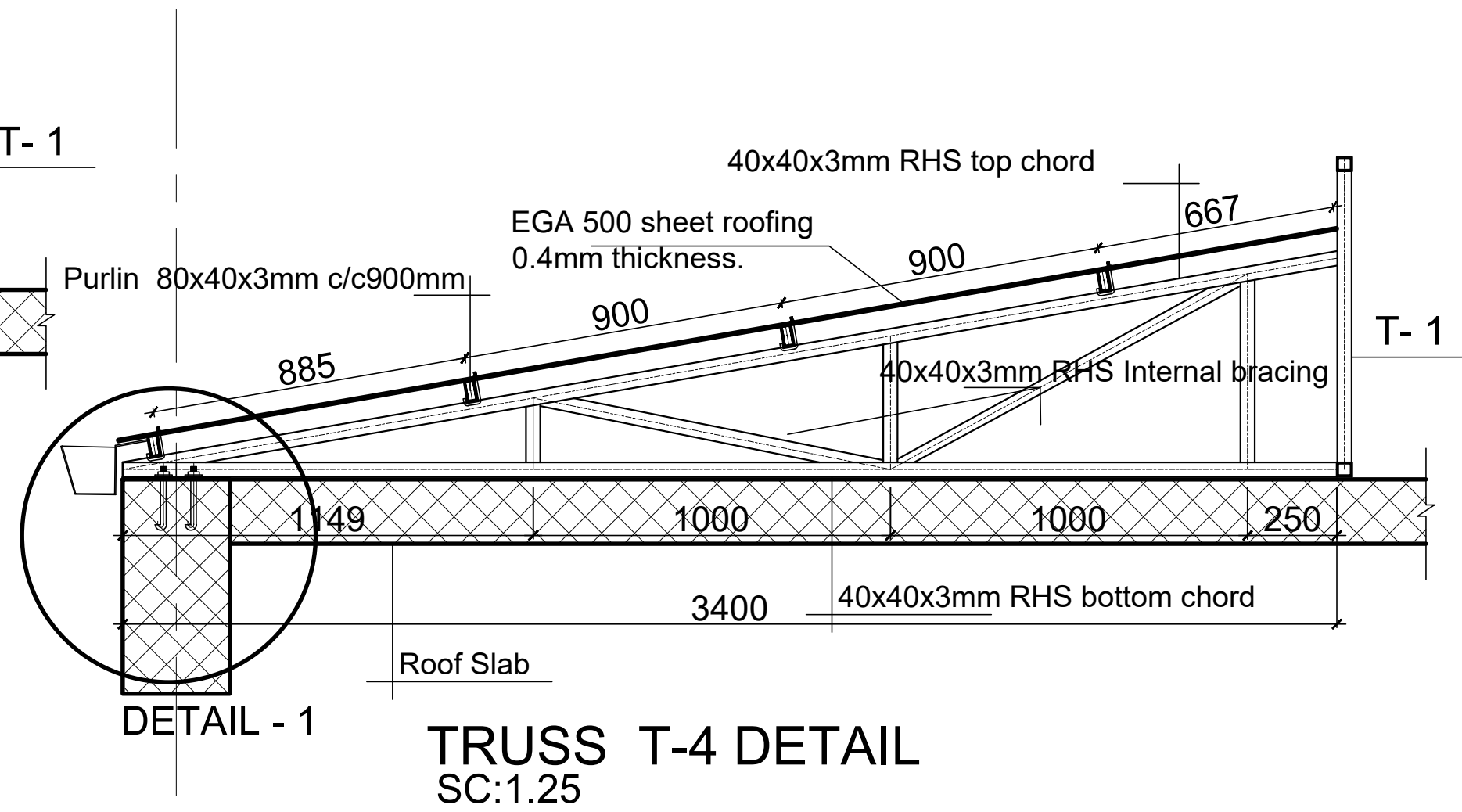
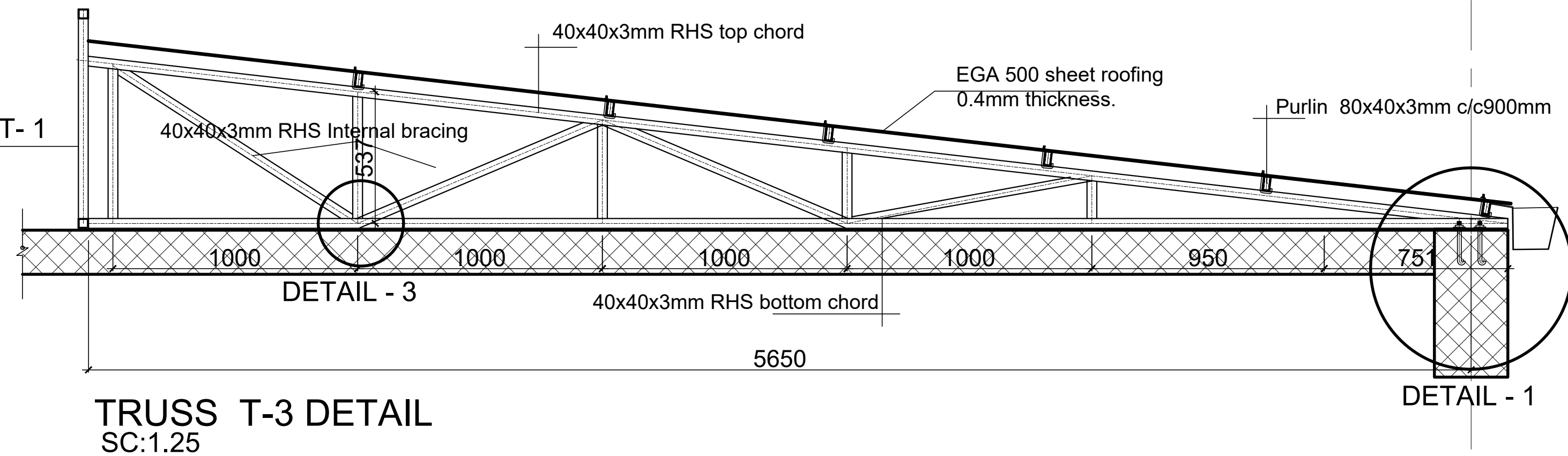
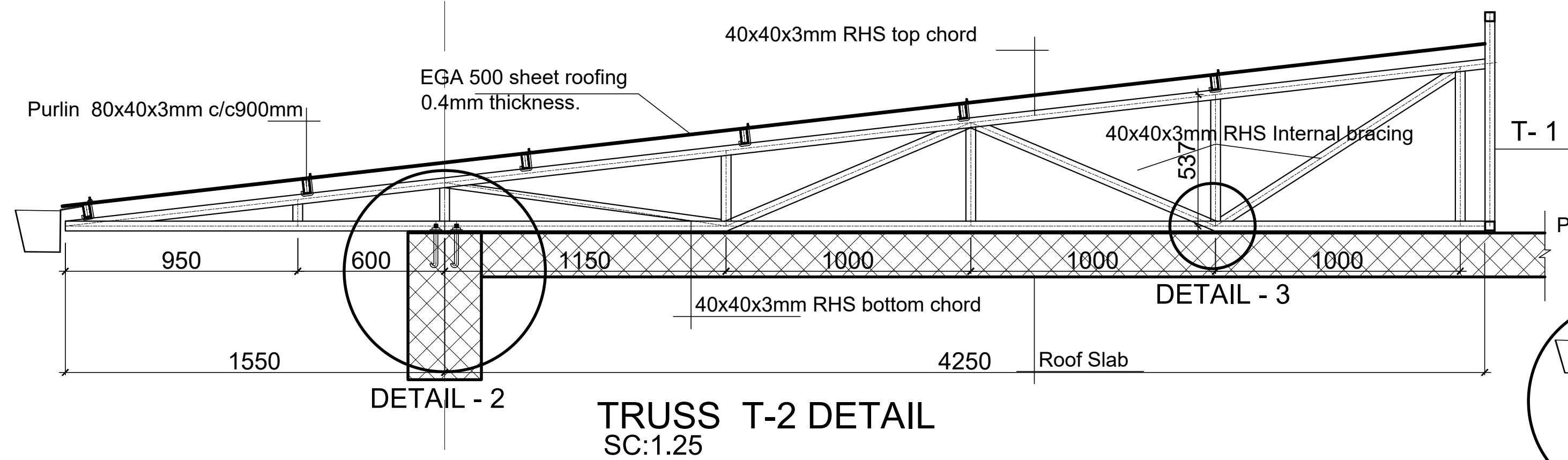
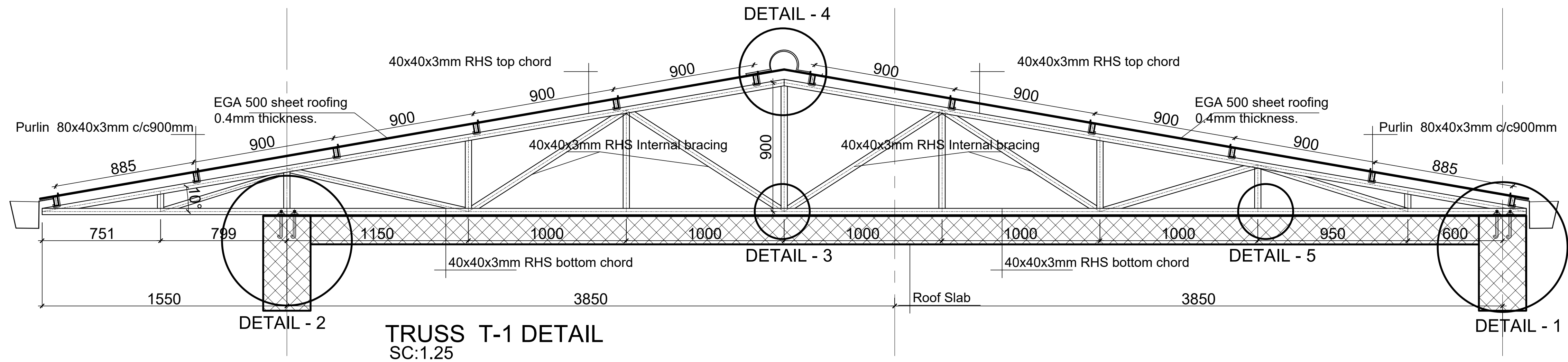


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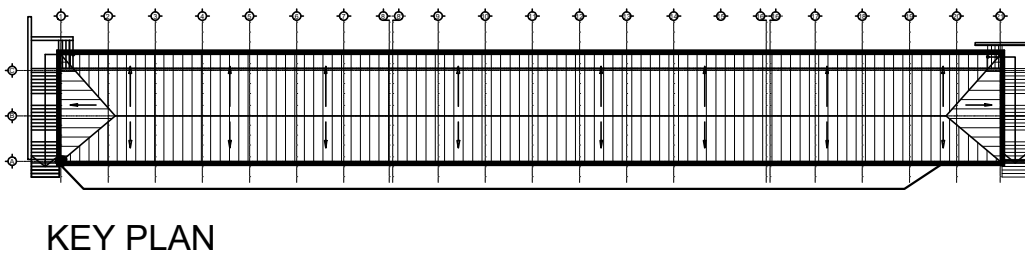
(STORE AND AMBULANCE BUILDING)

FOOTING and COLUMN LAYOUT

Designed by		Developed by	Discipline:	Dr. No:	Tot. No:	Rev No:		
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Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:		
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GENERAL NOTES:



Rev.	Date:	Description:	Approved
0			

KEY PLAN

Funded By:	Partner:
MINISTRY OF FOREIGN AFFAIRS ITALIAN AGENCY FOR DEVELOPMENT COOPERATION REPUBLIC OF ITALY	SALESIAN SISTERS ADWA
Program:	Implemented By:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS - ETMCO
Project Name:	Design:
EXPANSION AND STRENGTHENING OF KIDANE MIHRET CATHOLIC GENERAL HOSPITAL	UNOPS-ETMCO

Drawing Title:					
(STORE AND AMBULANCE BUILDING)					
STEEL TRUSS DETAILS					
Designed by	Developed by	Discipline:	Dr. No:	Tot. No:	Rev No:
FA	AG	ST	28	29	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:
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