

Palestine Polytechnic University  
College Of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project:  
Structural Design Of Hebron Hotel

Done By :

Nizar Al-sharaya  
Khaled najjar  
Islam Manasrh

Supervisor:

**Dr.Maher Amro**

Date:

21/1/2024

# Structural Design Criteria & Specifications & Construction Requirements

## GENERAL NOTES

### 1. CODE OF PRACTICE

Detailing and workmanship shall be according to ACI 318-16, and the technical specifications provided.  
Approved equivalent international codes shall be accepted.  
Design for concrete done according to ACI 318-16  
Uniform Building Code (UBC 97) For the definition of lateral Seismic Loading.

### 2. DIMENSIONS

- a) GRAVITY LOADS ESTIMATION ARE IN ACCORDANCE OF JORDAN
- b) UNLESS OTHERWISE INDICATED ON DRAWINGS ELEVATIONS ARE IN METERS, DISTANCES AND DIMENSIONS IN m., REINFORCEMENT BAR SIZES IN mm.

### 3. DRAWINGS

- 1- Structural drawings shall be read in conjunction with Architectural.
- 2- Sleeves and openings smaller than 200x200mm are not shown on the Structural drawings .  
For required openings refer to Architectural . Mechanical and Electrical drawings .
- 3- Contractor shall prepare working drawings and bar bending schedules for reinforcement in a format agreed with the engineer .
- 4- Contractor shall supply detailed drawings and calculations for all support and temporary works and propping systems as applicable and all other relevant information subject to the Engineer's approval prior to commencement of construction .

### 4. REINFORCEMENT

- 1- Reinforcement shall be deformed high strength steel bars of characteristic strength of 420 Mpa complying with ASTM standards or equivalent for diameters 10mm & above .
- 2- Reinforcement shall be deformed steel bars of characteristic strength of 420 MPa complying with ASTM standards Or equivalent for diameters 8mm & above .
- 3- Contractor to provide bar bending schedule.
- 4- Where bar length is not specified , longest practicable bar length shall be employed with staggered lap splices. Lap length shall be 30 times bar diameter .

### 5. REINFORCED CONCRETE

The following two types of reinforced concrete shall be employed:

B300 - Grade 300 for all reinforced concrete members except architectural fair faced concrete facades.  
Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:

B300 -  $30 \times 0.8 = 24$  MPa (Because it is rectangular section)  
Minimum cement content, per cubic meter, shall be:  
B300 - 300 kilograms

### 6. AGGREGATES

Maximum aggregate size shall be 25 mm.

### 7. FOUNDATIONS

- Contractor shall adhere strictly to the geotechnical report for this project. He shall be responsible to determine strata characteristics at the appropriate levels:
- Allowable Bearing capacity = 500 KN/m<sup>2</sup> .

### 8. BACK Fill

All back fill material shall conform to specifications and shall be properly tested . No back filling is permitted around .

## GENERAL RULES

### 1. NOTATION

T.B=TOP BARS  
B.B=BOTTOM BARS  
S= SPACING.  
∅ or T = DIAMETER FOR STEEL BARS .  
© or / = INDICATES THAT THE FOLLOWING NUMBER IS THE SPACING BETWEEN BARS.

### 2. COVER

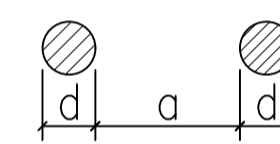
Clear concrete cover to reinforcement shall be :

20mm for ribs    40mm for beams    40mm for columns  
40mm for Beams, slabs and joists.

Reinforcing bars of girder shall be anchored over the center line of column,

And reinforcing bars of sub-beam shall be anchored over the center line of girder.

### 3. Min. Bar Spacing



Unless otherwise shown below, sub-beam and cantilever beam shall be conformed

Bar spacing "a" shall be not less than the greatest in the following three cases:

- 1) 25 mm
- 2) 1.5 d
- 3) 1.25 times the max. size of coarse aggregate.

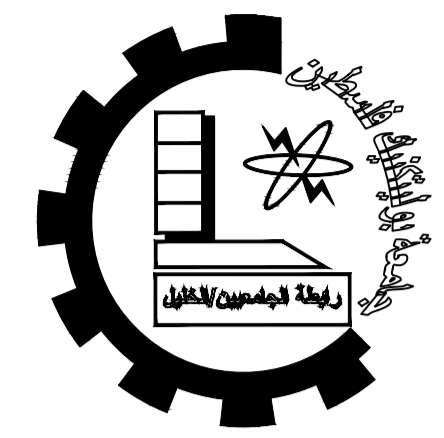
### Standard Hook Details and Bar Bends

End position

Hook details	Secondary Steel	Main Steel	Application
	D	4d	5d
	1e	12d	14d
	D	4d	--
	1e	12d	--
	D	4d	--
	1e	8d	--
	1'e	10d	--

Intermediate position

Hook details	Secondary Steel
	D
	D
	D
	D



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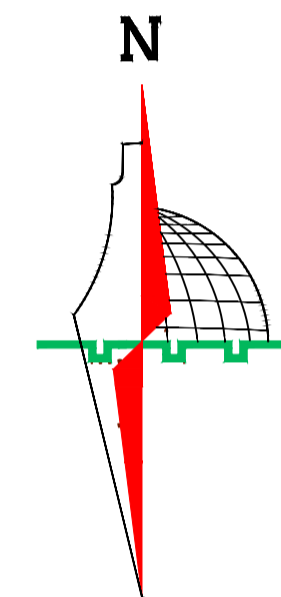
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Civil Department

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Hayat hospital Project Specialized in Treating Cancerous Tumors



#### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

General Notes

Supervisor

Dr.Maher Amro.

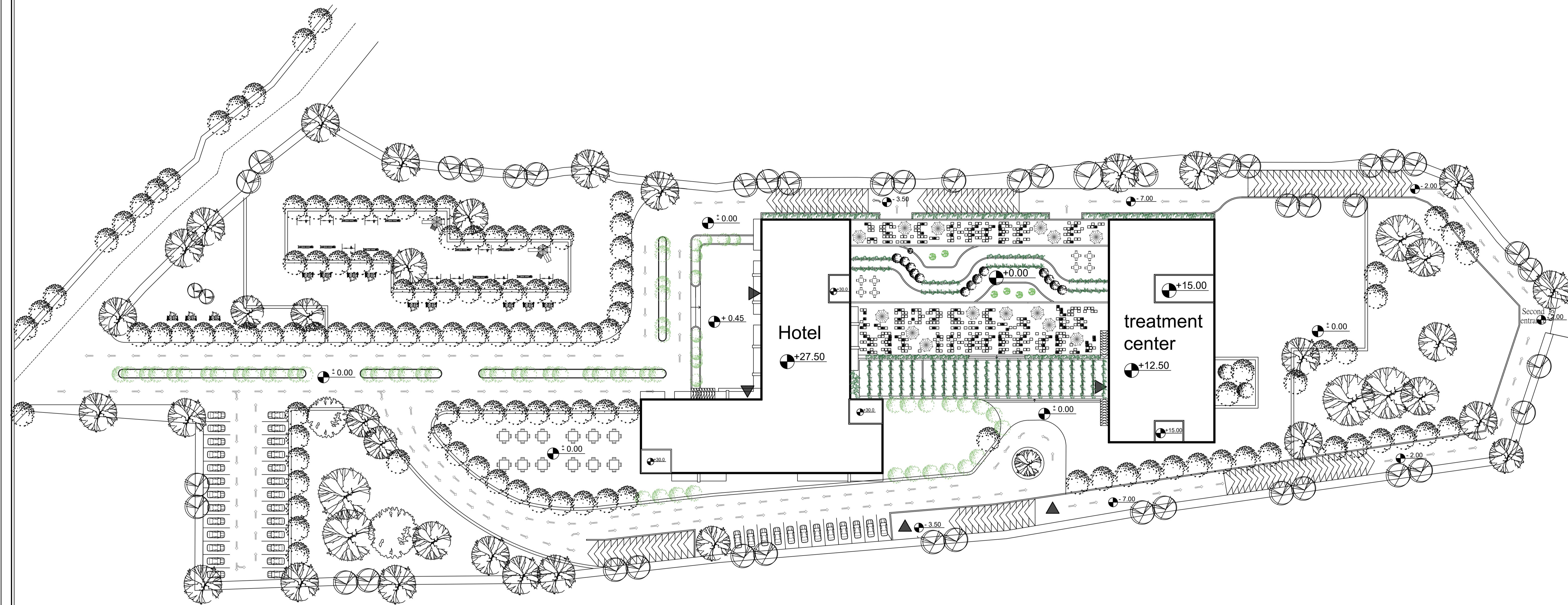
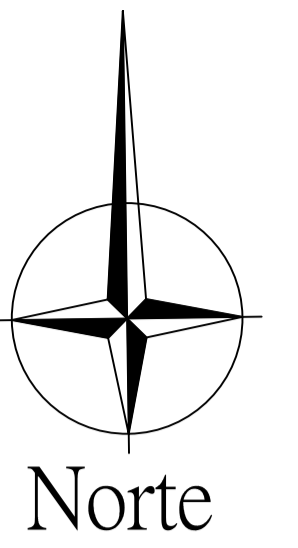
Done by :

Khaled najjar

Nizar al sharaya

islam mansrh

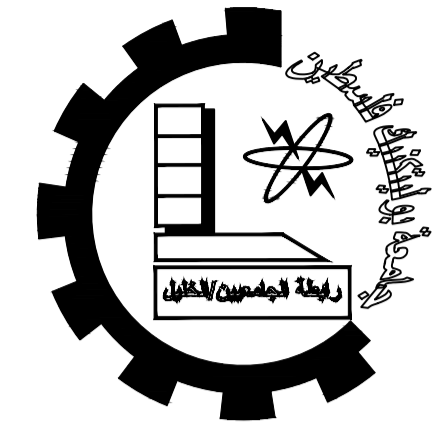
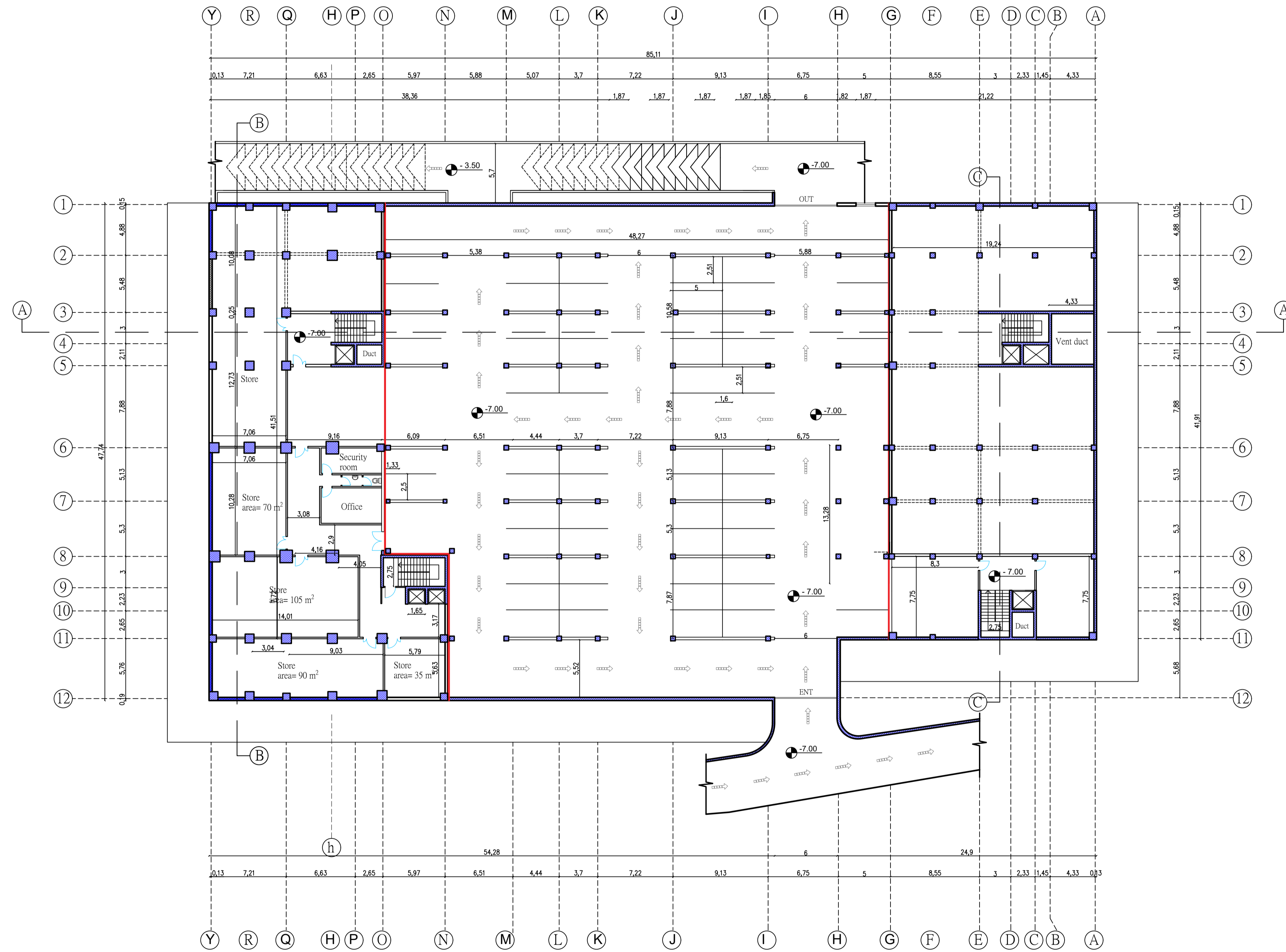
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1  
A00

Site Plan  
scale 1/500

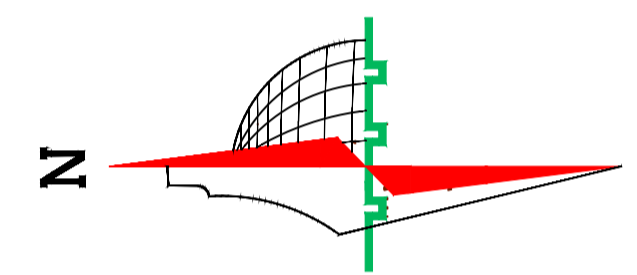
Basement2 floor Dim plan  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

Basement2 floor Dim plan

Supervisor

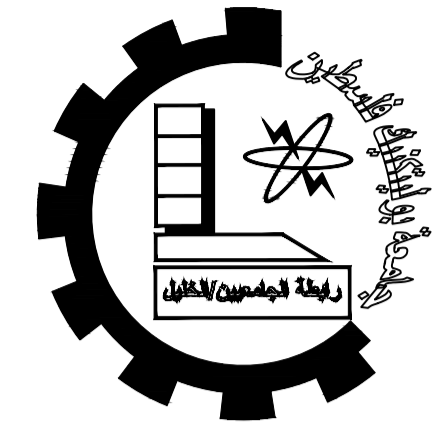
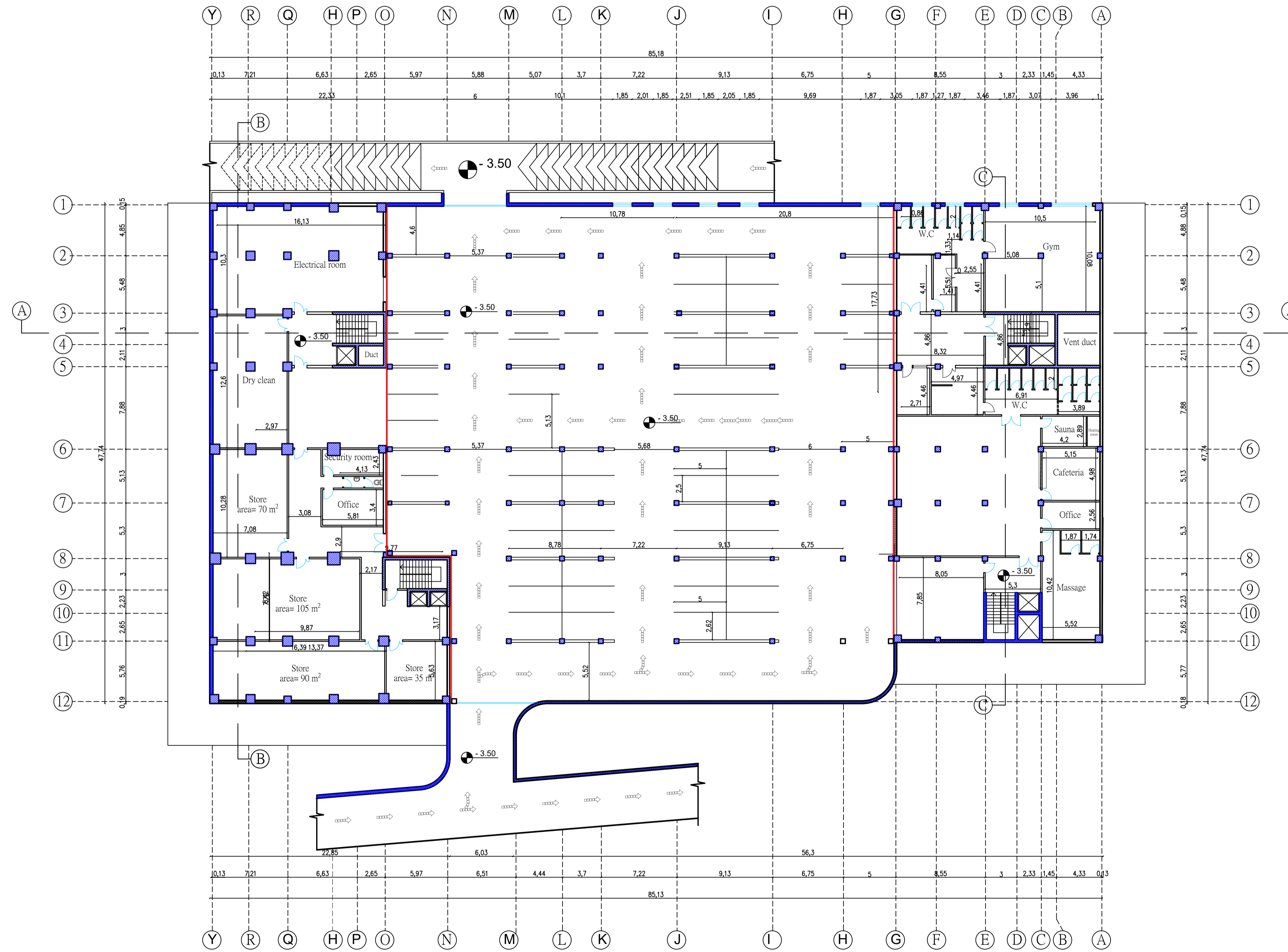
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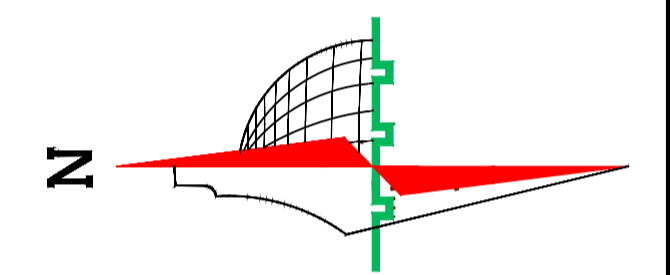
Basement1 floor Dim plan  
Scale 1 : 250



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Legend :

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- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Basement1 floor Dim plan

Supervisor

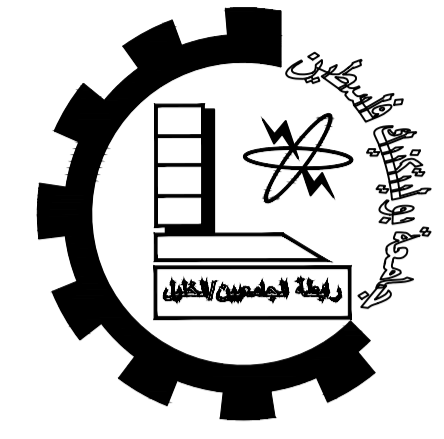
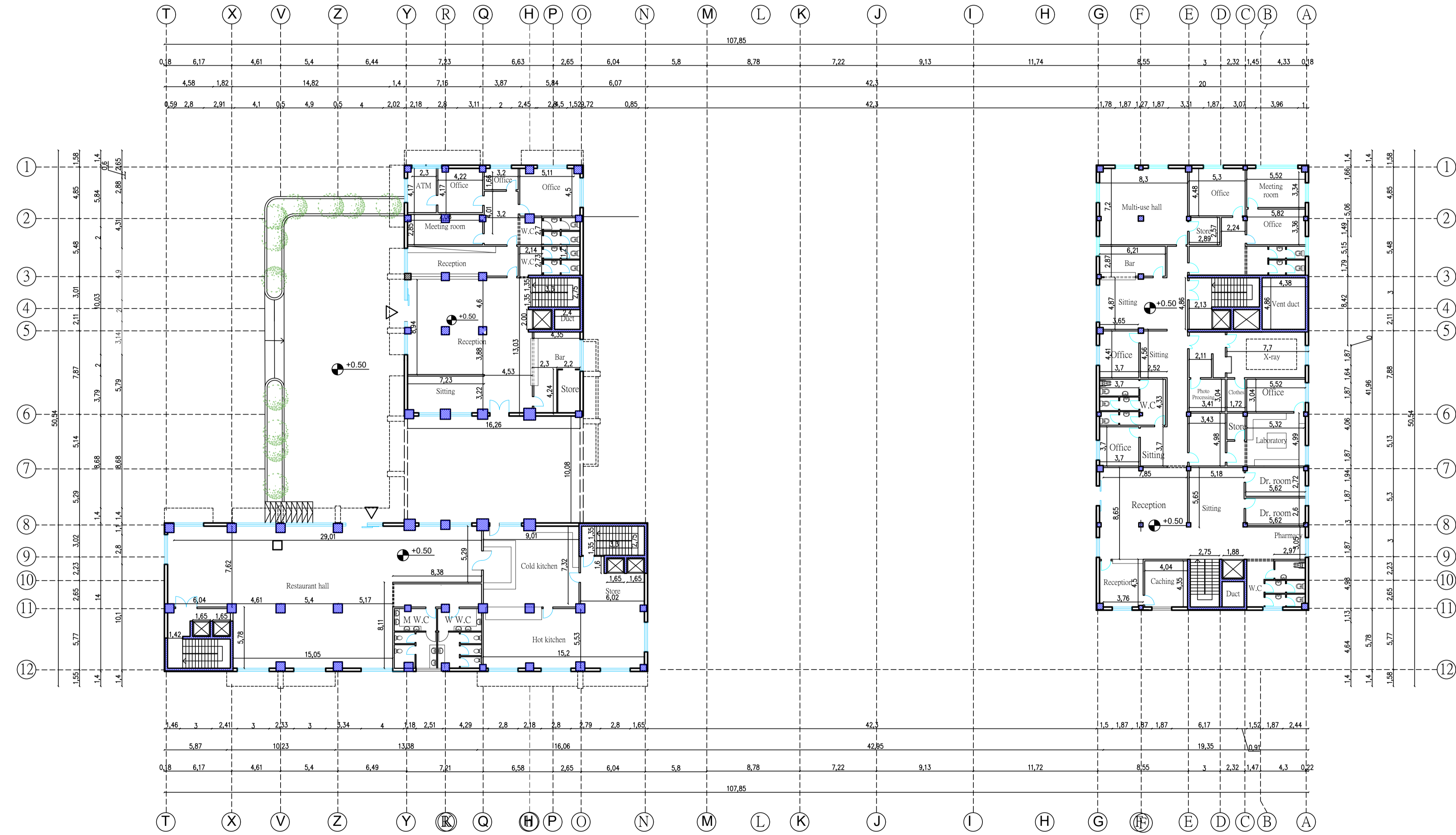
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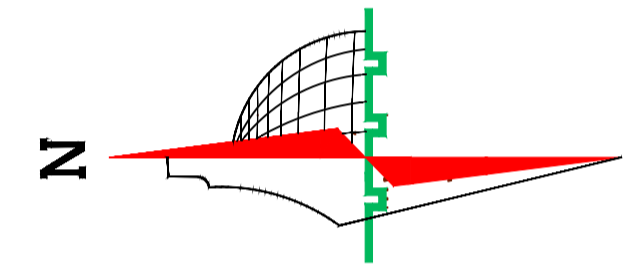
Ground Floor Dim. Plan  
Scale 1 : 250



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**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

Ground Floor Dim. Plan

Supervisor

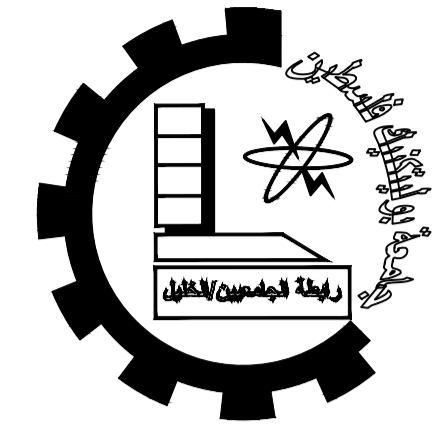
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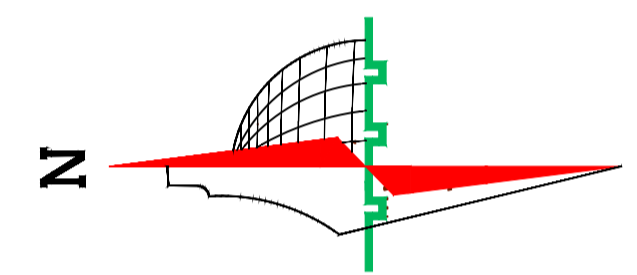
First Floor Dim. Plan  
Scale 1 : 250



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Legend :

- Stone
- R.Concrete
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- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

First Floor Dim. Plan

Supervisor

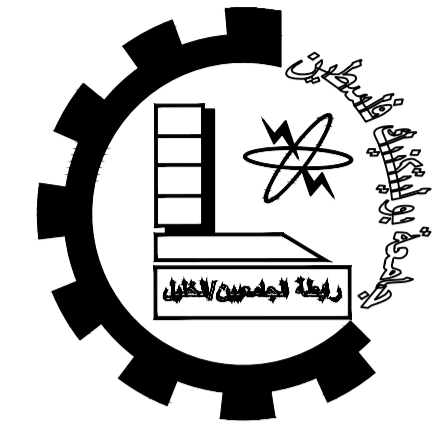
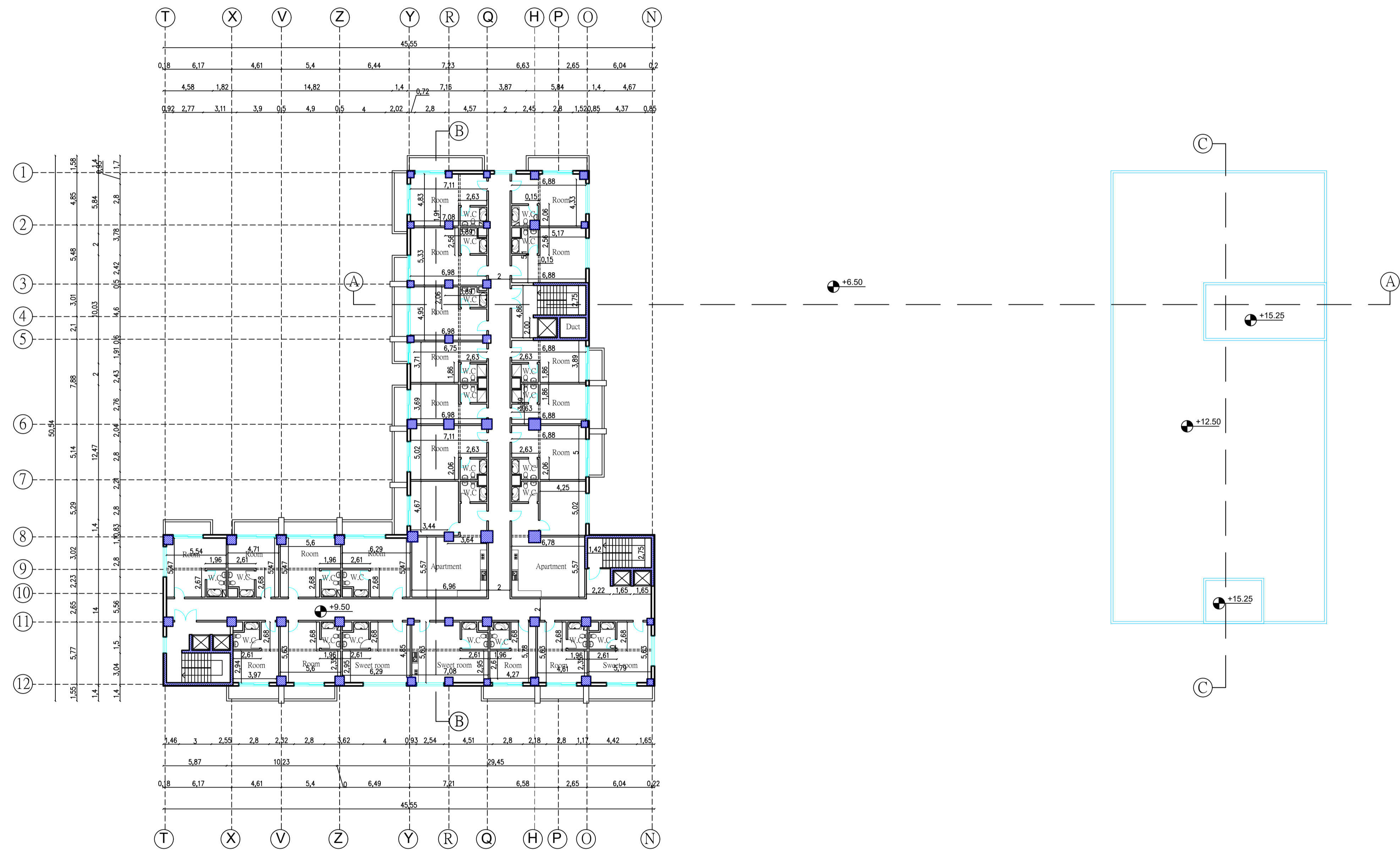
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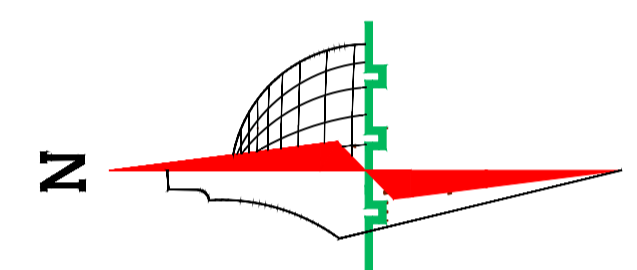
3-7Floor Dim. Plan  
Scale 1 : 250



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Legend :

- Stone
- R.Concrete
- Concrete
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- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

2-7Floor Dim. Plan

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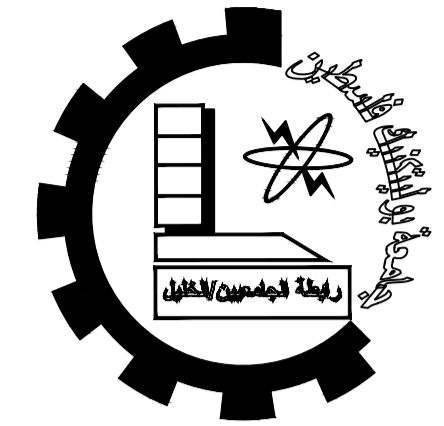
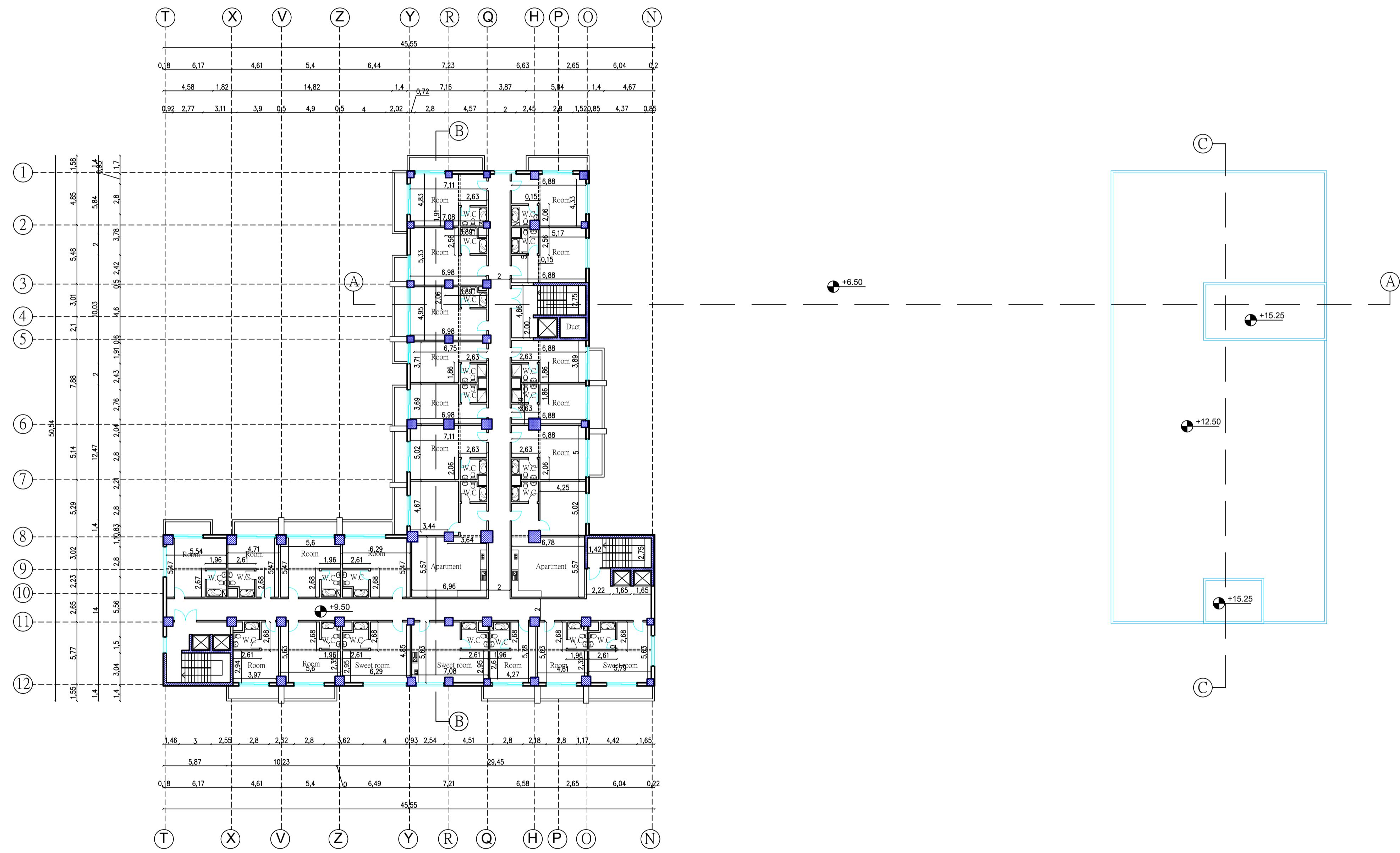
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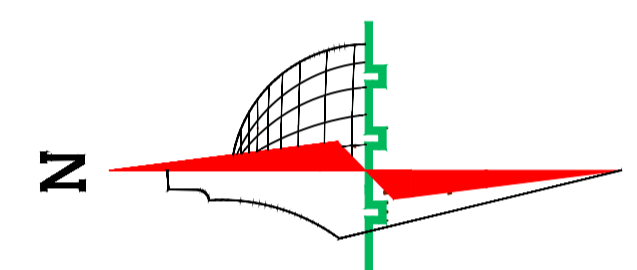
3-7Floor Dim. Plan  
Scale 1 : 250



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Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

2-7Floor Dim. Plan

Supervisor

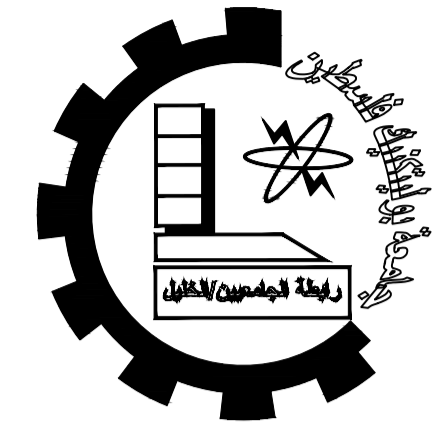
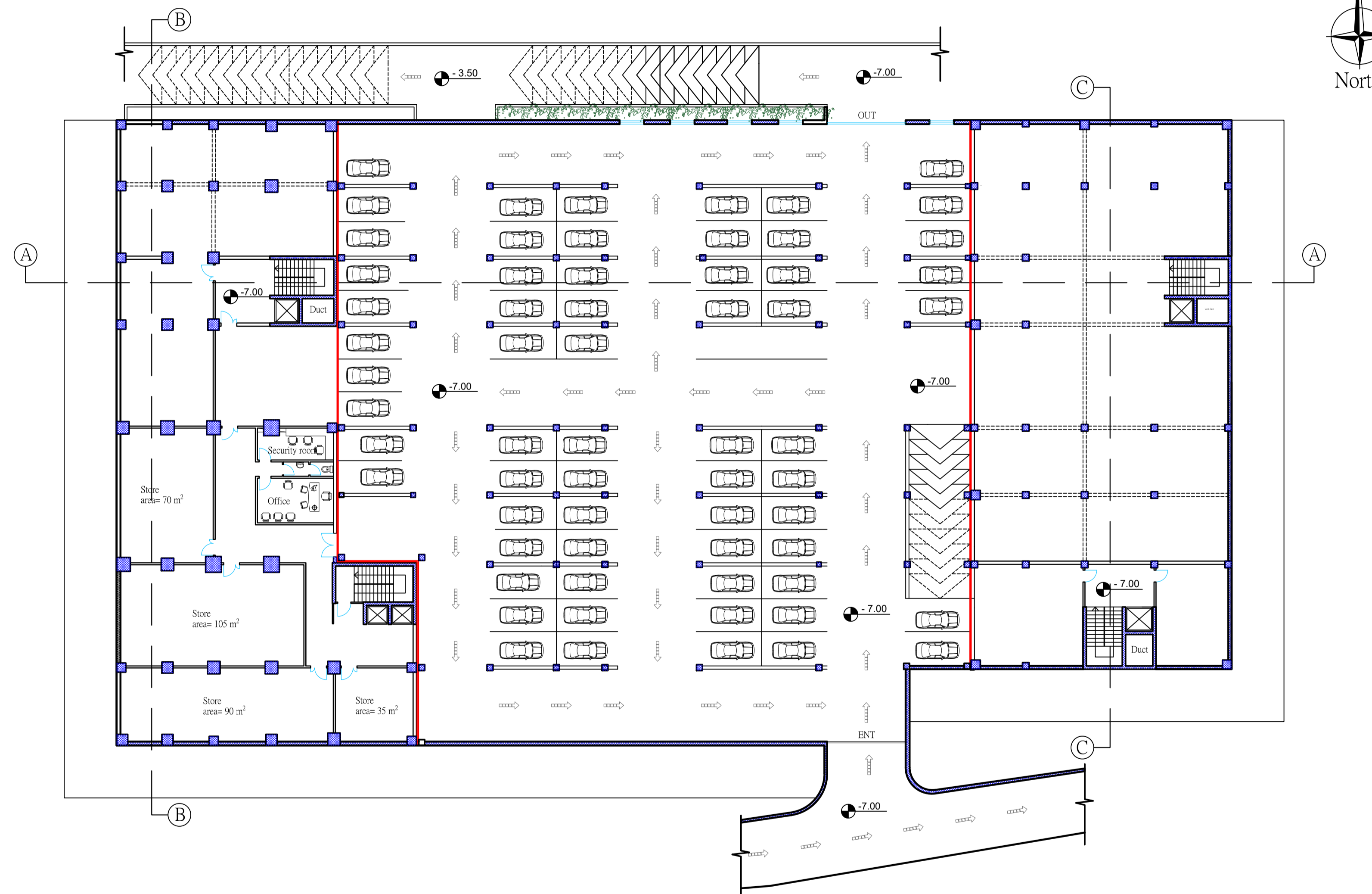
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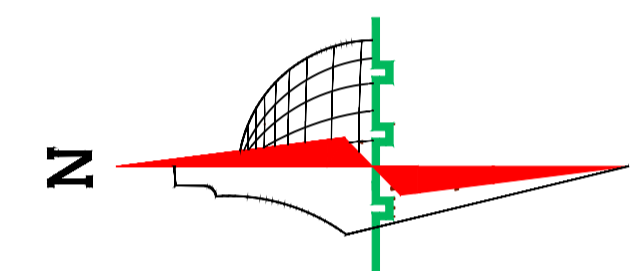
Basement2 floor furn plan  
Scale 1 : 250



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Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

Basement2 floor furn plan

Supervisor

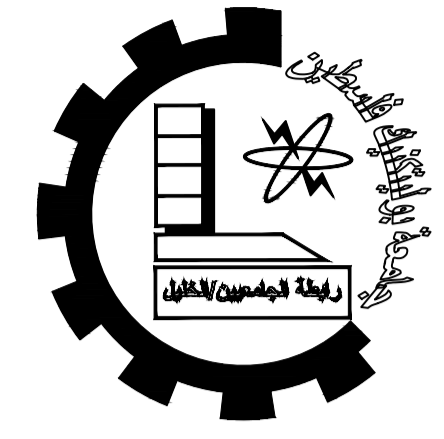
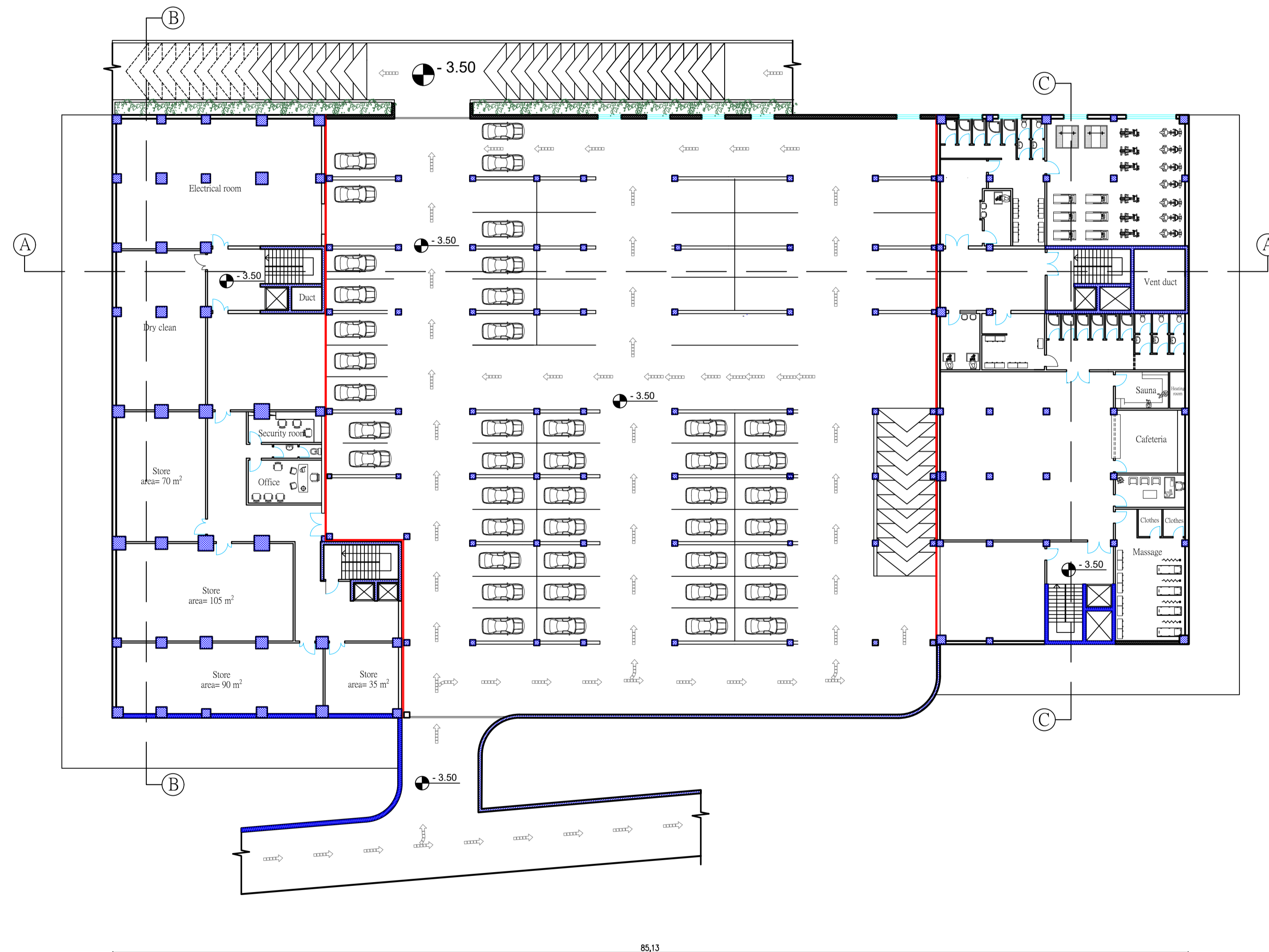
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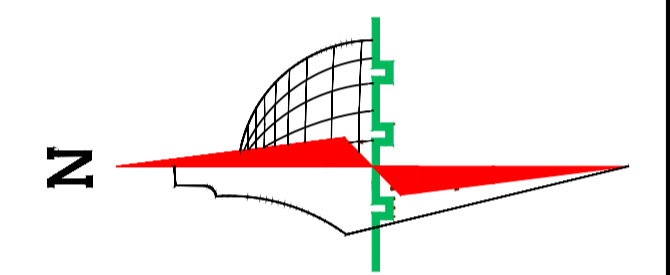
Basement1 floor furn plan  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

Basement1 floor furn plan

Supervisor

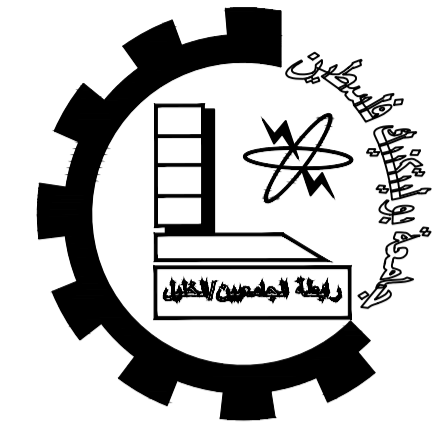
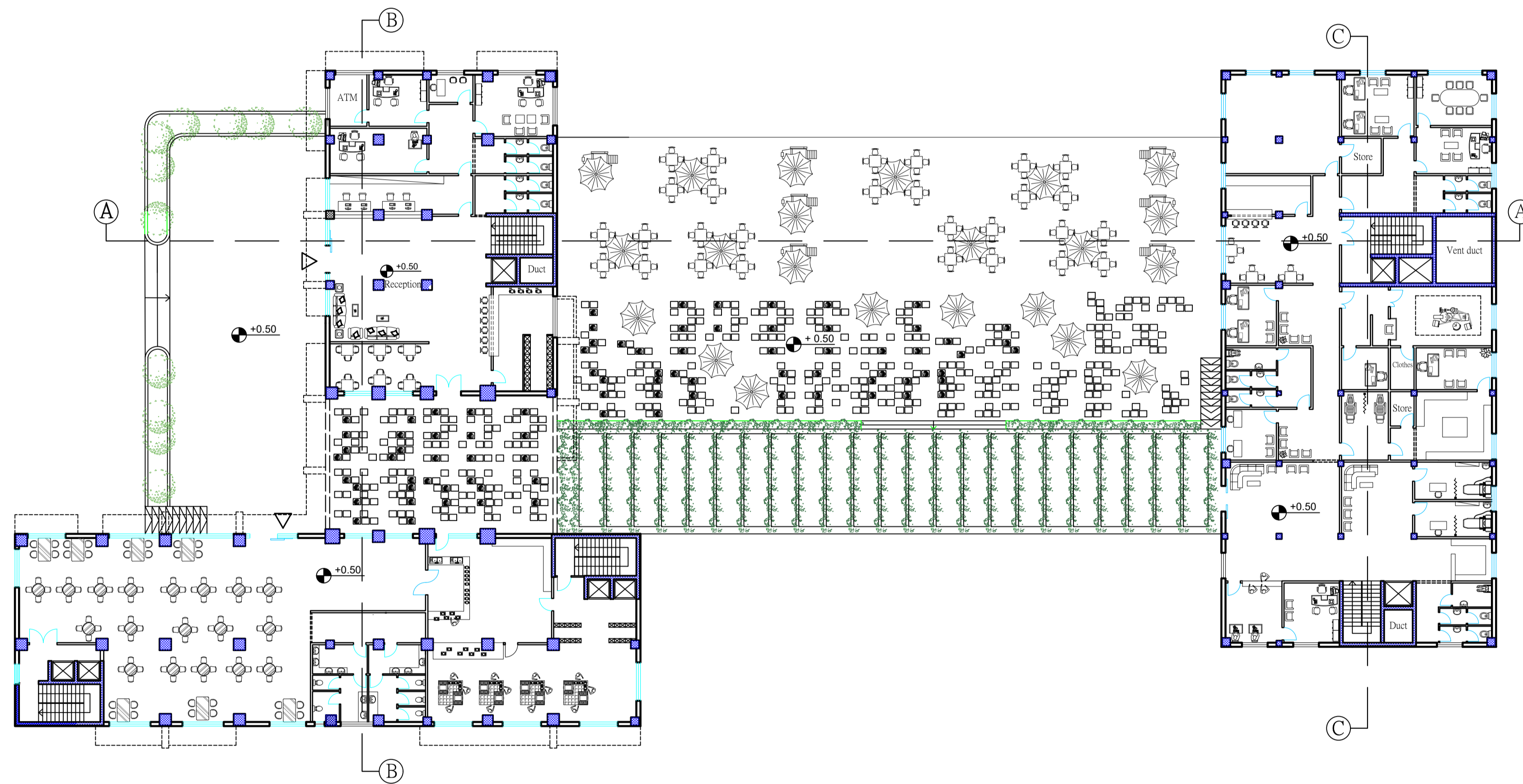
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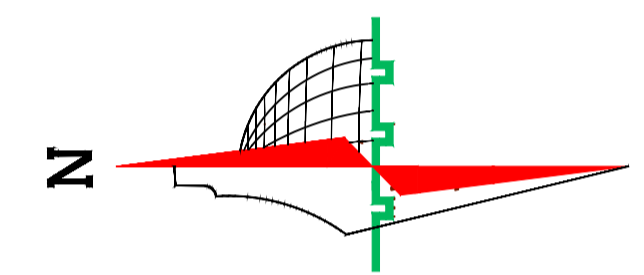
Ground Floor Furn Plan  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

Ground Floor Furn Plan

Supervisor

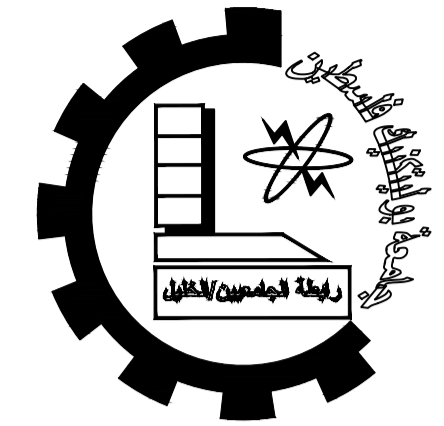
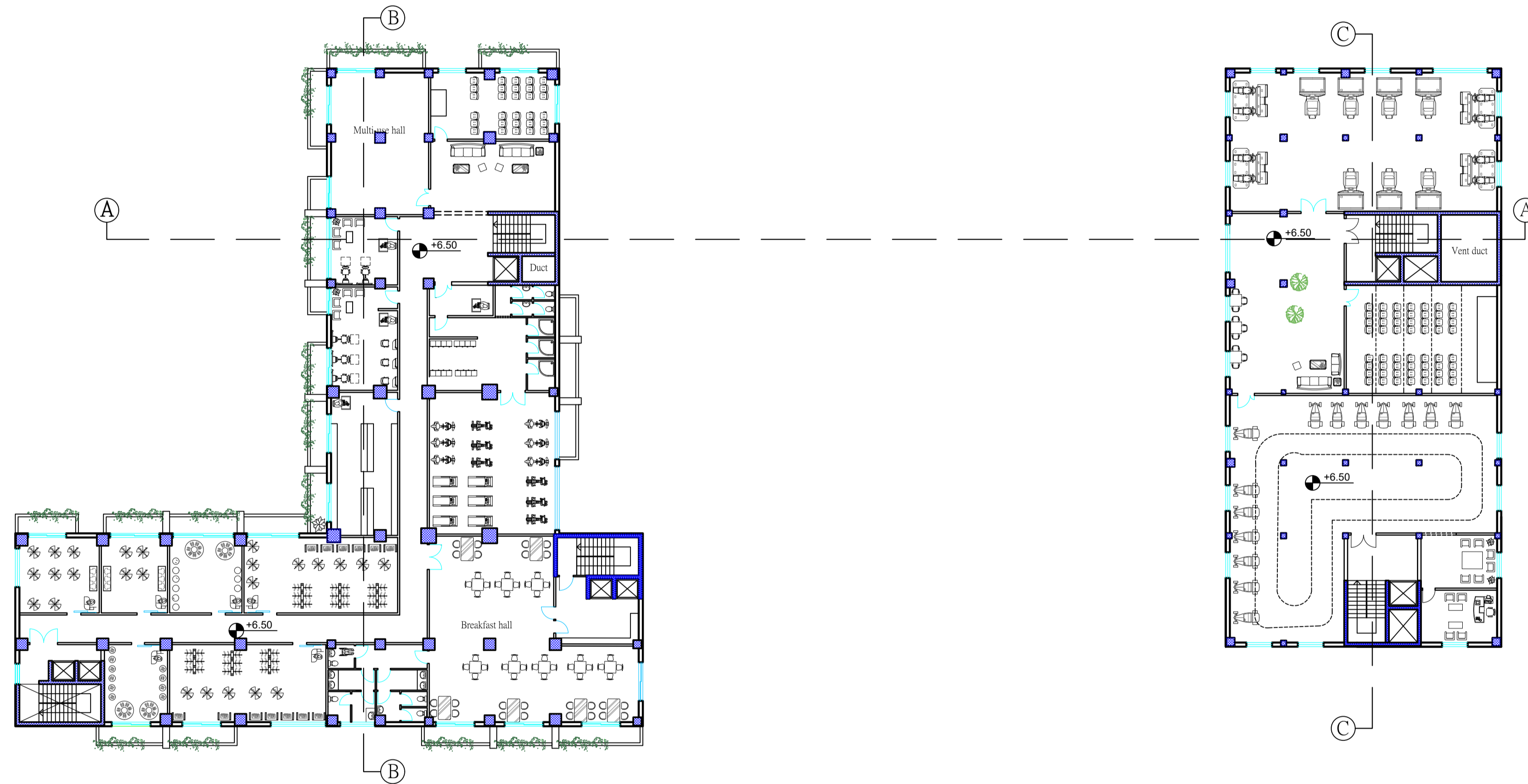
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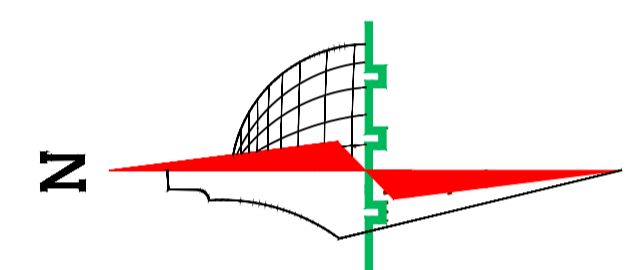
First Floor Furn Plan  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
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- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

First Floor Furn Plan

Supervisor

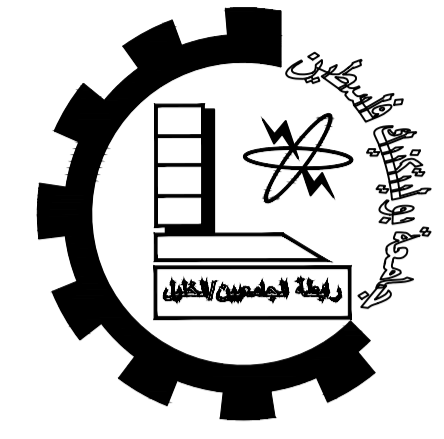
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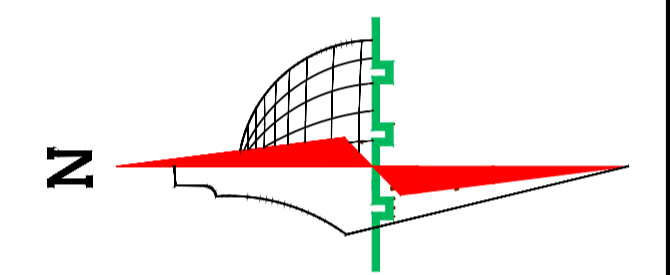
2-7 Floor Furn Plan  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

2-7 Floor Furn Plan

Supervisor

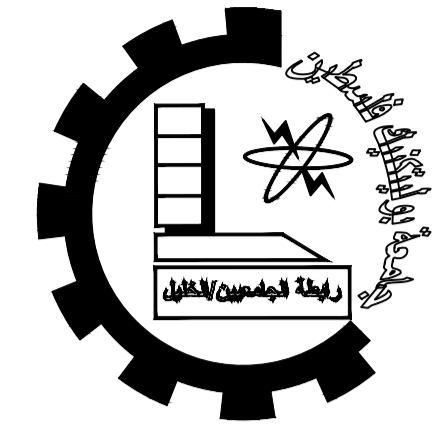
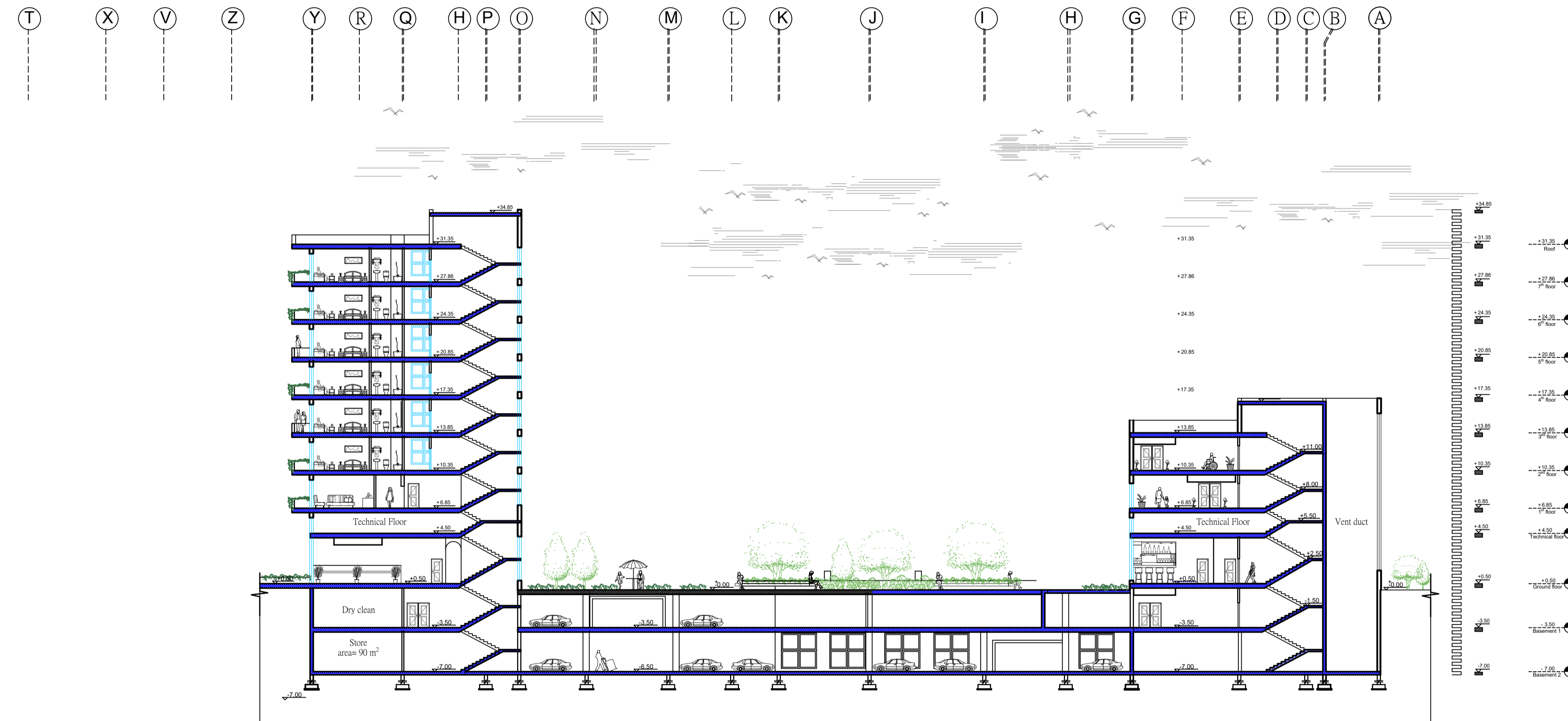
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SCALE	No. of DRAW	DATE
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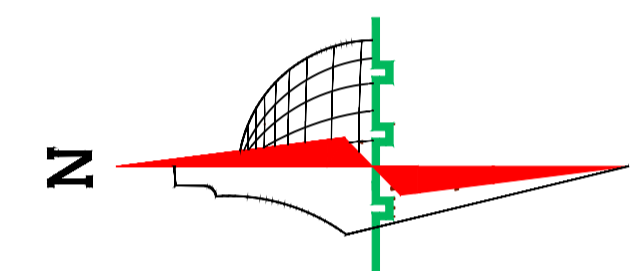
Section A-A  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

Section A-A

Supervisor

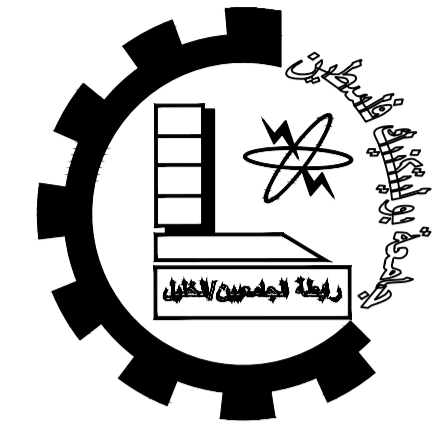
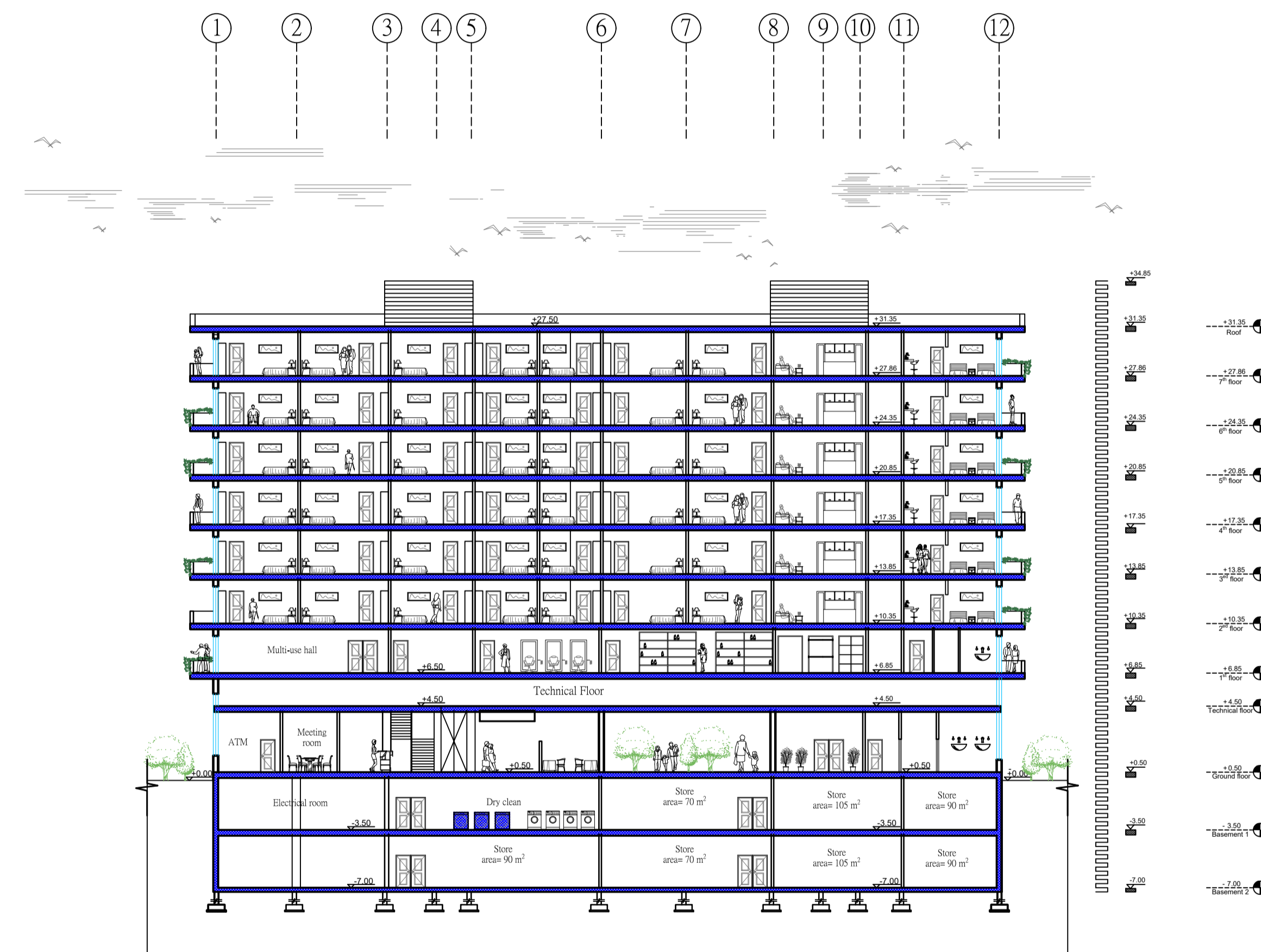
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*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	A11	21/1/2024

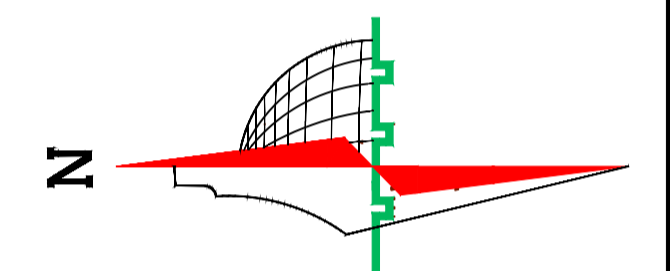
Section B-B  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

- |                      |                 |
|----------------------|-----------------|
| Stone                | Gravel          |
| R.Concrete           | Wood            |
| Concrete             | HEXAGONAL TILES |
| Hollow Block         | BAKLAVA TILES   |
| isolating materiales | GRASS           |

DRAWING TITLE :

Section B-B

Supervisor

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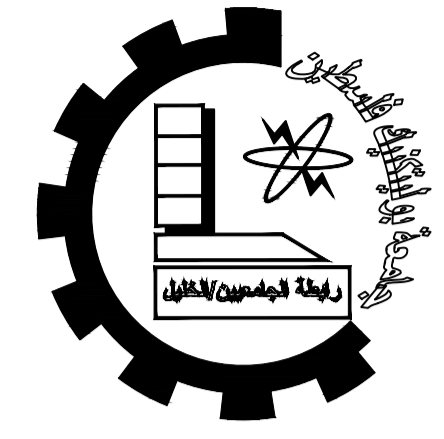
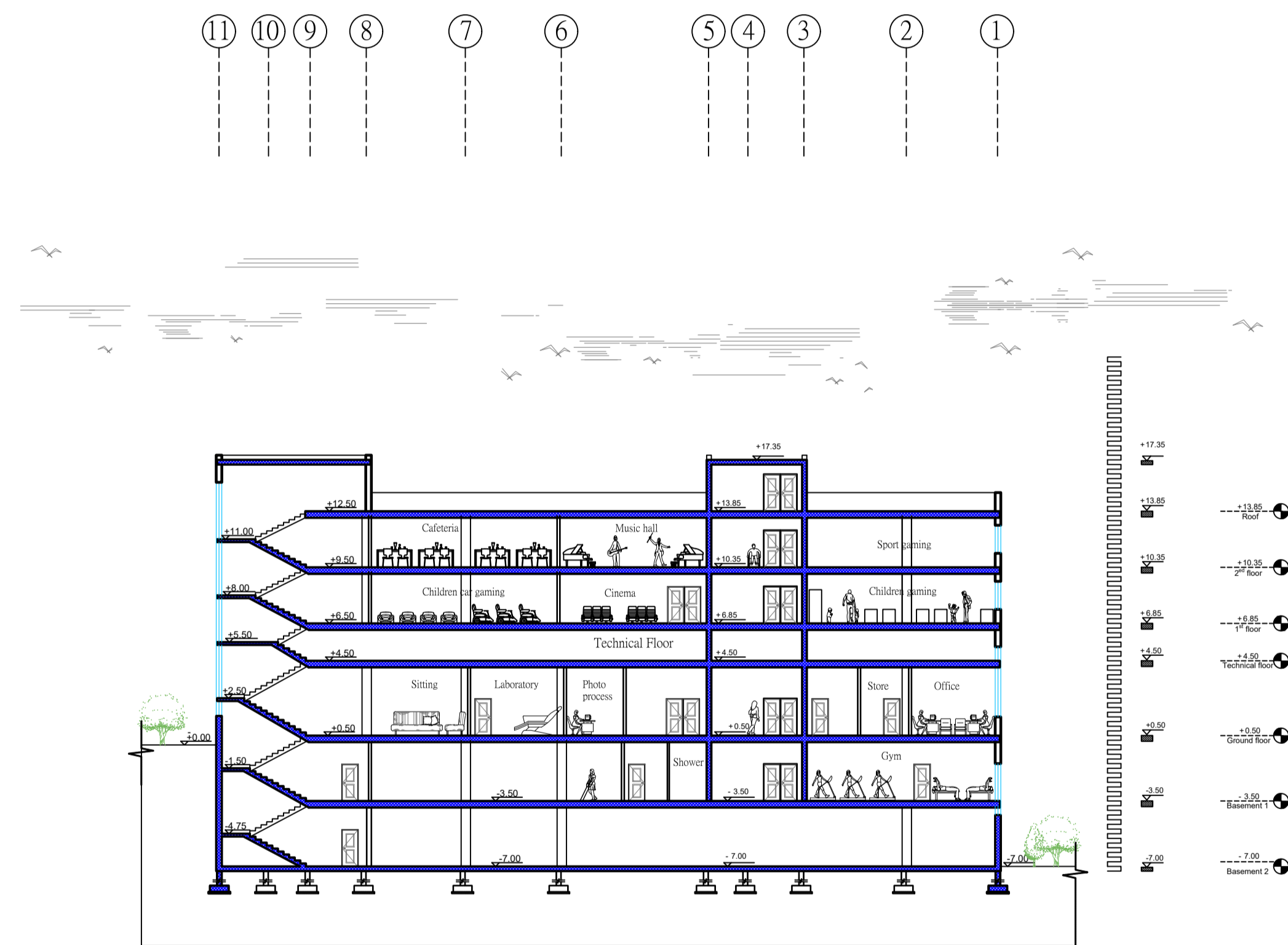
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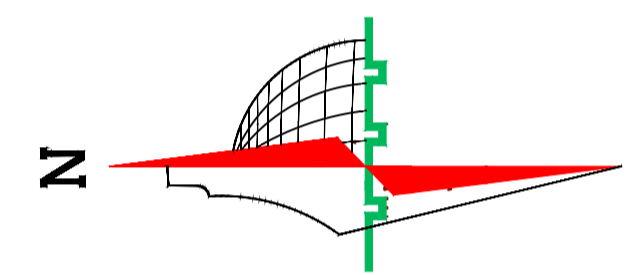
Section C-C  
Scale 1 : 250



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IVORY HOTEL & RESORT



Legend :

	Stone		Gravel
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	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

Section C-C

Supervisor

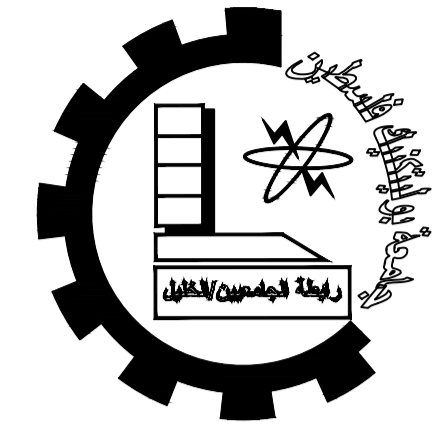
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SCALE	No. of DRAW	DATE
1/250	A13	21/1/2024

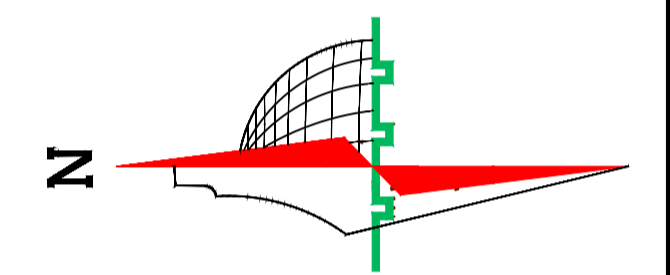
West elevation  
Scale 1 : 250



Palestine Polytechnic University  
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Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

West elevation

Supervisor

Dr.Maher Amro.

Done by :

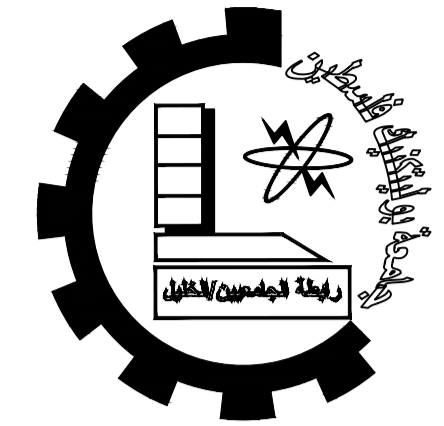
*Khaled najjar*  
*Nizar al sharaya*  
*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	A14	21/1/2024

North elevation  
Scale 1 : 250

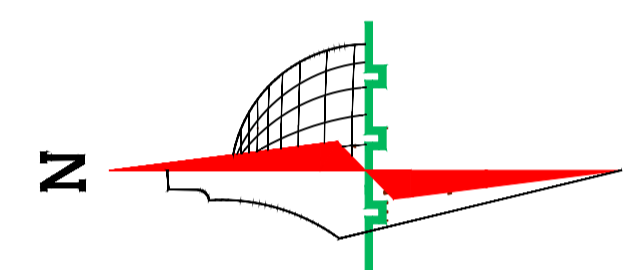


B1	24.25	Roof
B2	23.35	
B3	22.45	7th floor
B4	21.55	
B5	20.65	6th floor
B6	19.75	
B7	18.85	5th floor
B8	17.95	
B9	17.05	4th floor
B10	16.15	
B11	15.25	3rd floor
B12	14.35	
B13	13.45	2nd floor
B14	12.55	
B15	11.65	1st floor
B16	10.75	
B17	9.85	Ground floor
B18	8.95	
B19	8.05	
B20	7.15	
B21	6.25	
B22	5.35	
B23	4.45	
B24	3.55	
B25	2.65	
B26	1.75	
B27	0.85	
B28	-0.05	
B29	-0.95	
B30	-1.85	
B31	-2.75	
B32	-3.65	
B33	-4.55	
B34	-5.45	
B35	-6.35	
B36	-7.25	
B37	-8.15	
B38	-9.05	
B39	-9.95	
B40	-10.85	
B41	-11.75	
B42	-12.65	
B43	-13.55	
B44	-14.45	
B45	-15.35	
B46	-16.25	
B47	-17.15	
B48	-18.05	
B49	-18.95	
B50	-19.85	
B51	-20.75	
B52	-21.65	
B53	-22.55	
B54	-23.45	
B55	-24.35	
B56	-25.25	
B57	-26.15	
B58	-27.05	
B59	-27.95	
B60	-28.85	
B61	-29.75	
B62	-30.65	
B63	-31.55	
B64	-32.45	
B65	-33.35	
B66	-34.25	
B67	-35.15	
B68	-36.05	
B69	-36.95	
B70	-37.85	
B71	-38.75	
B72	-39.65	
B73	-40.55	
B74	-41.45	
B75	-42.35	
B76	-43.25	
B77	-44.15	
B78	-45.05	
B79	-45.95	
B80	-46.85	
B81	-47.75	
B82	-48.65	
B83	-49.55	
B84	-50.45	
B85	-51.35	
B86	-52.25	
B87	-53.15	
B88	-54.05	
B89	-54.95	
B90	-55.85	
B91	-56.75	
B92	-57.65	
B93	-58.55	
B94	-59.45	
B95	-60.35	
B96	-61.25	
B97	-62.15	
B98	-63.05	
B99	-63.95	
B100	-64.85	



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IVORY HOTEL & RESORT



**Legend :**

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

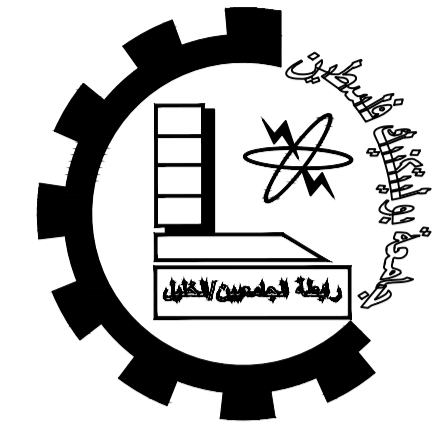
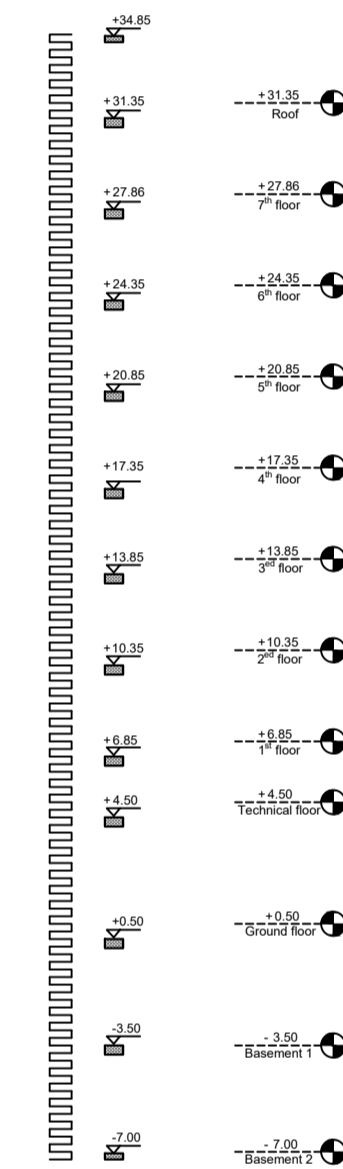
North elevation

Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	A15	21/1/2024

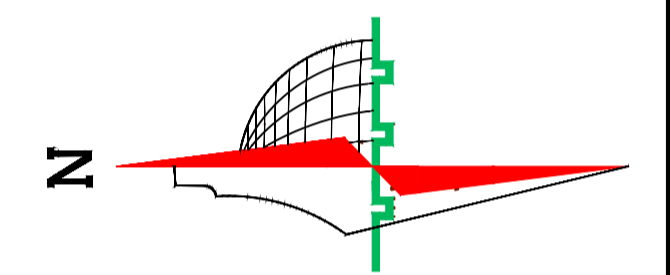
South elevation  
Scale 1 : 250



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Graduation Project

IVORY HOTEL & RESORT



Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

South elevation

Supervisor

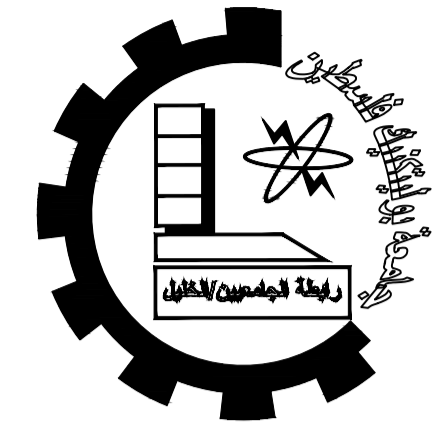
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	A16	21/1/2024

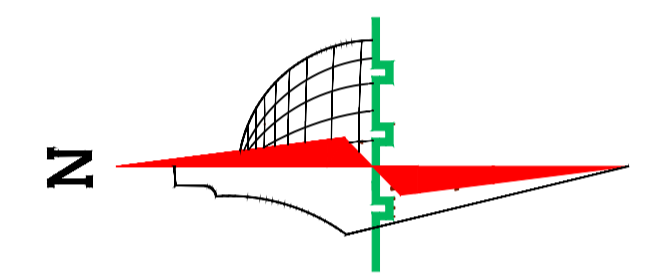
East elevation  
Scale 1 : 250



Palestine Polytechnic University  
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Graduation Project

IVORY  
HOTEL &  
RESORT



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

East elevation

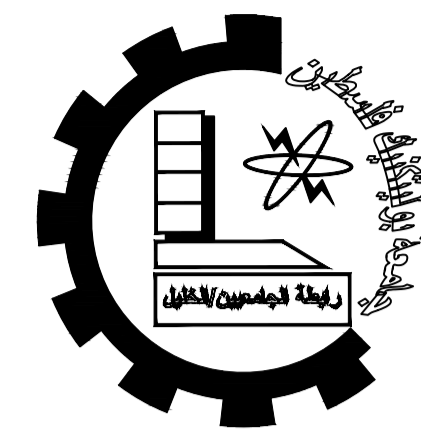
Supervisor

Dr.Maher Amro.

Done by :

*Khaled najjar*  
*Nizar al sharaya*  
*islam mansrh*

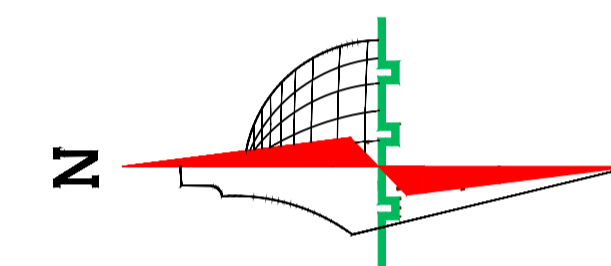
SCALE	No. of DRAW	DATE
1/250	A20	21/1/2024



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Graduation Project

IVORY  
 HOTEL &  
 RESORT



Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

*Foundations Plan*

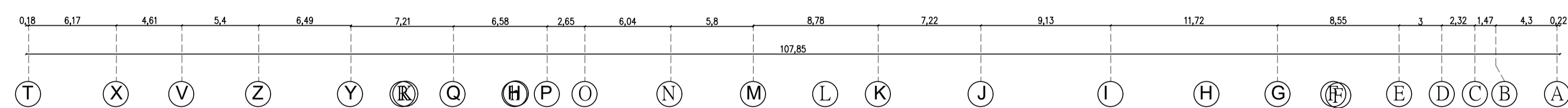
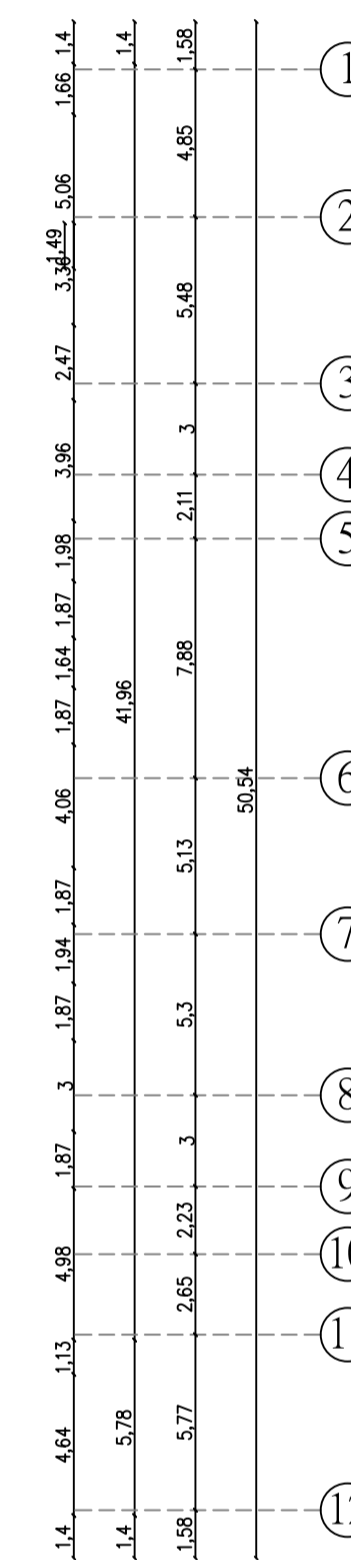
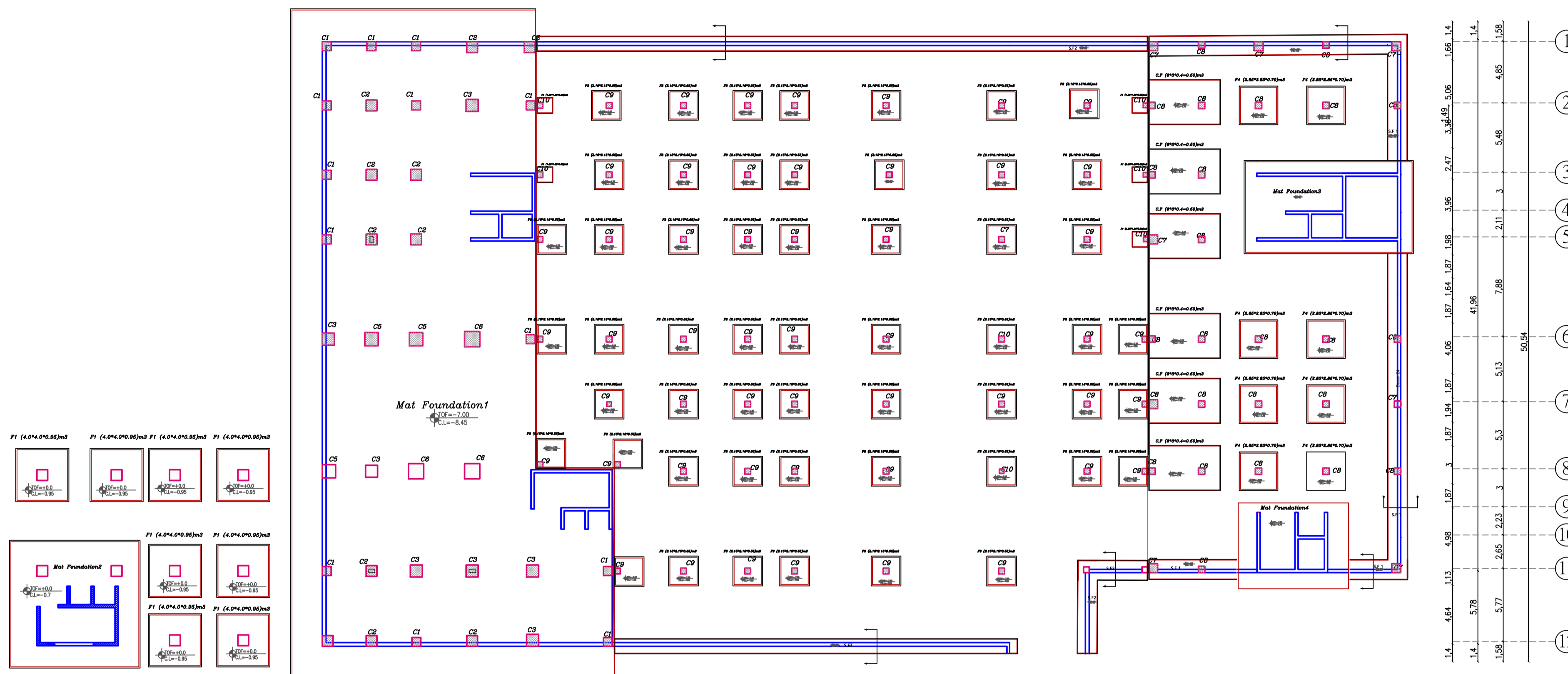
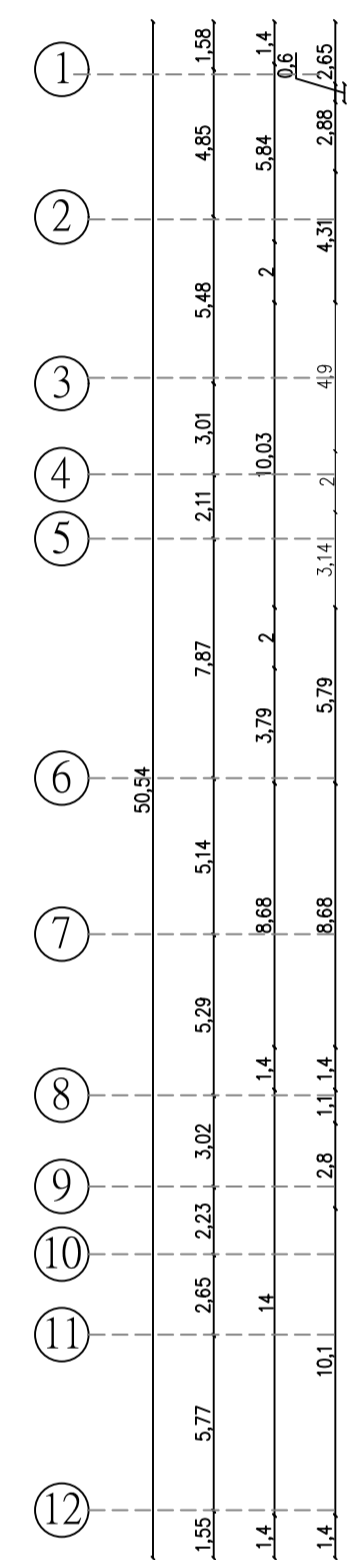
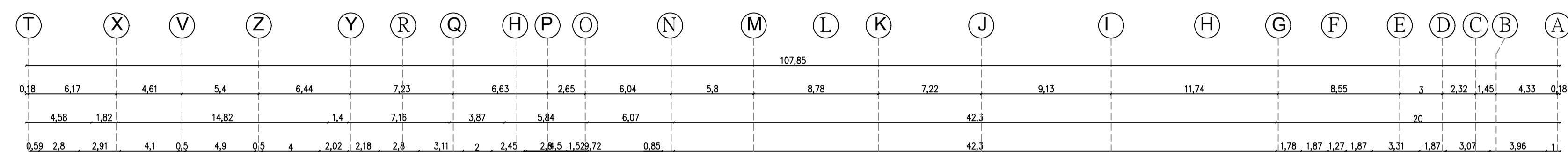
Supervisor

Dr.Maher Amro.

Done by :

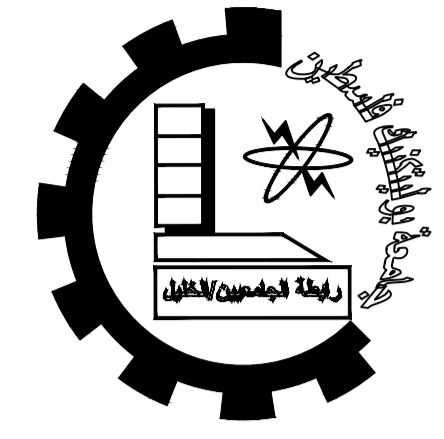
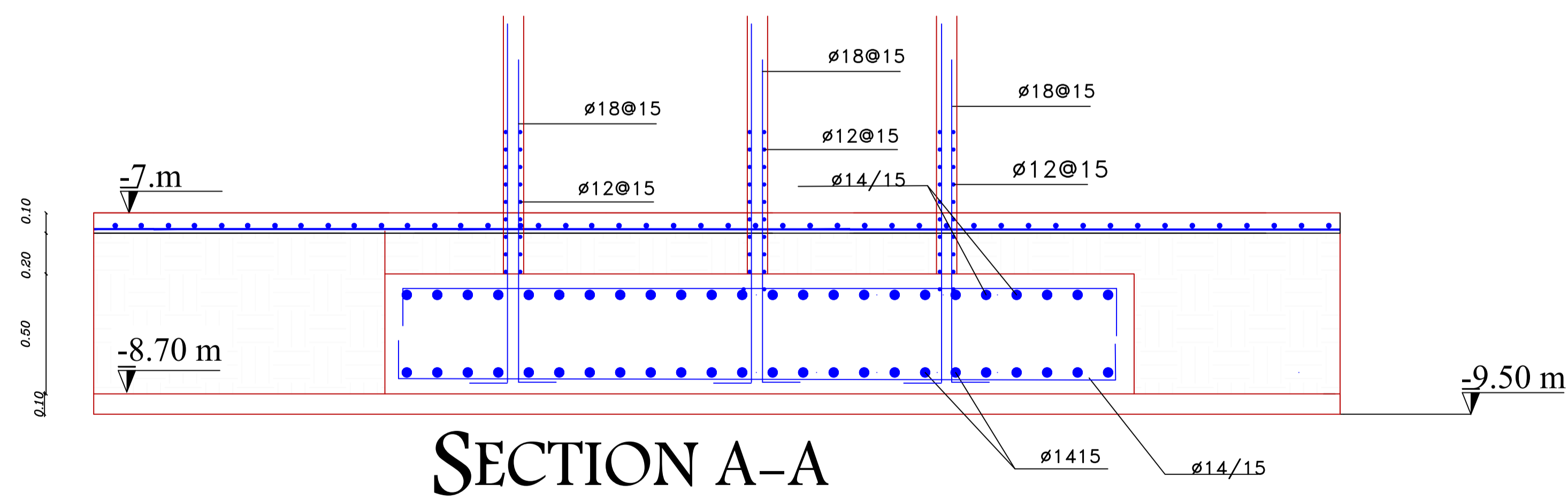
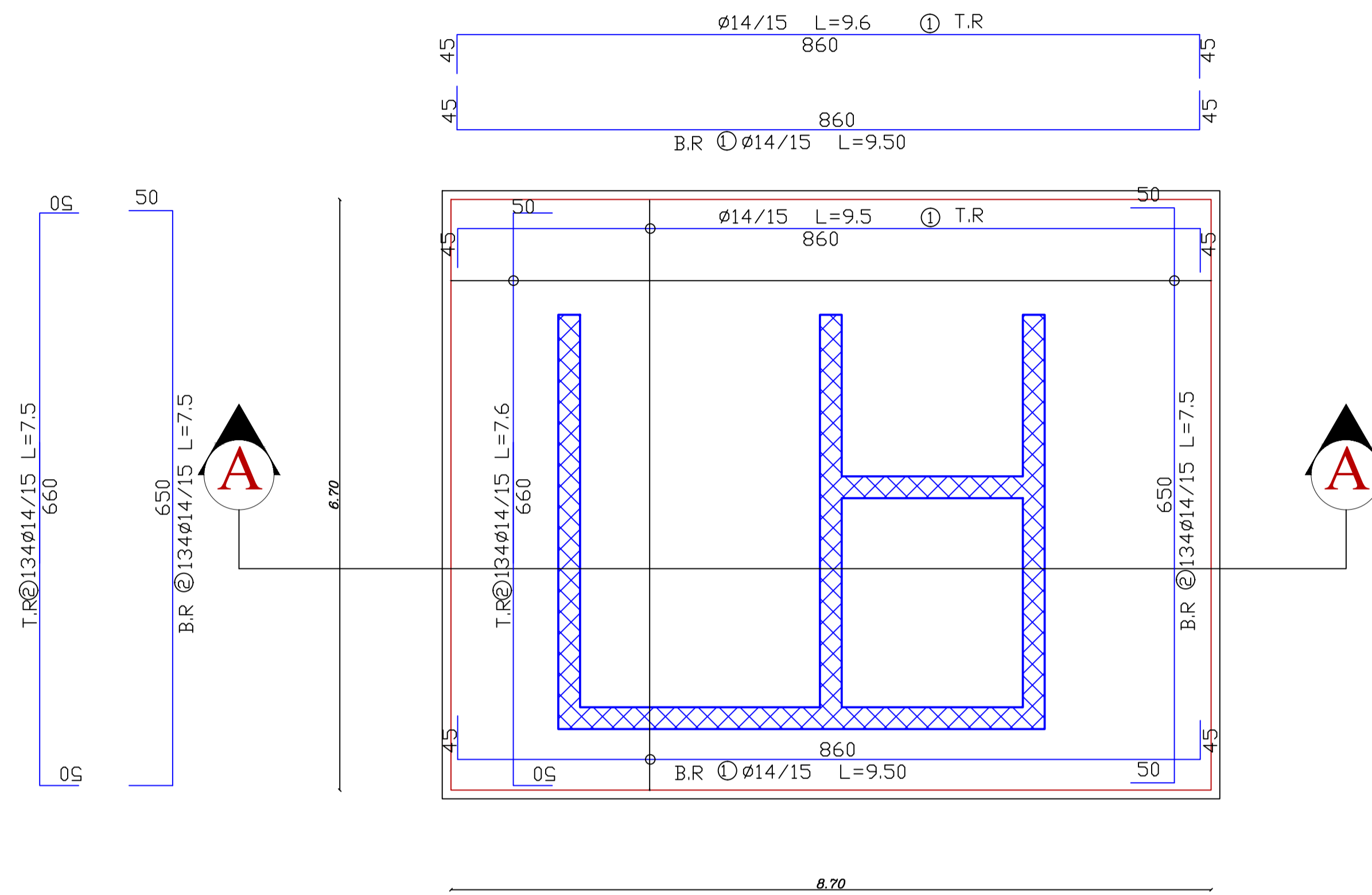
*Khaled najjar  
 Nizar al sharaya  
 islam mansrh*

SCALE	No. of DRAW	DATE
1/250	S1	21/1/2024



# Mat Foundation4

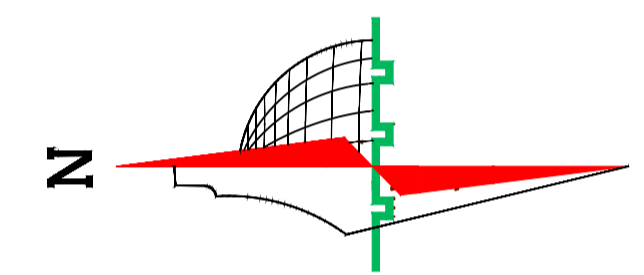
SCALE 1:25



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Graduation Project

IVORY HOTEL & RESORT



### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

Mat Footing 4

Supervisor

Dr.Maher Amro.

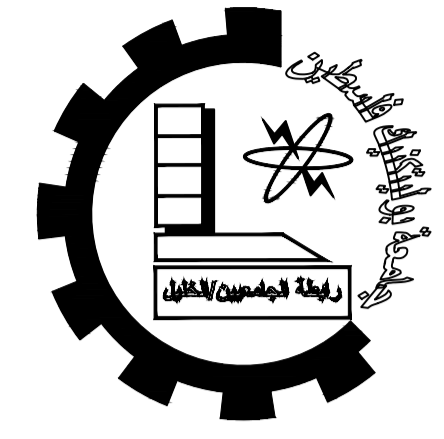
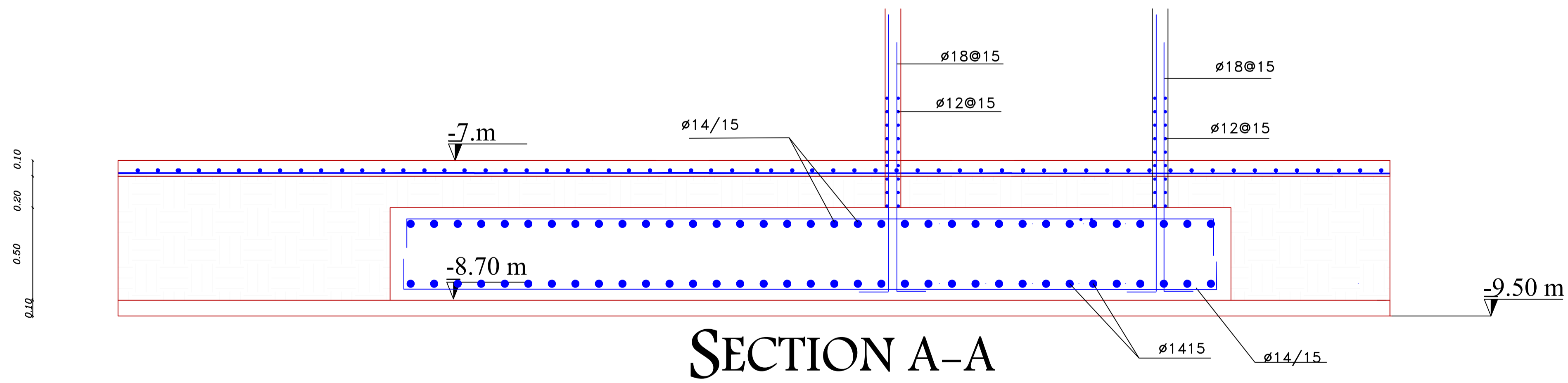
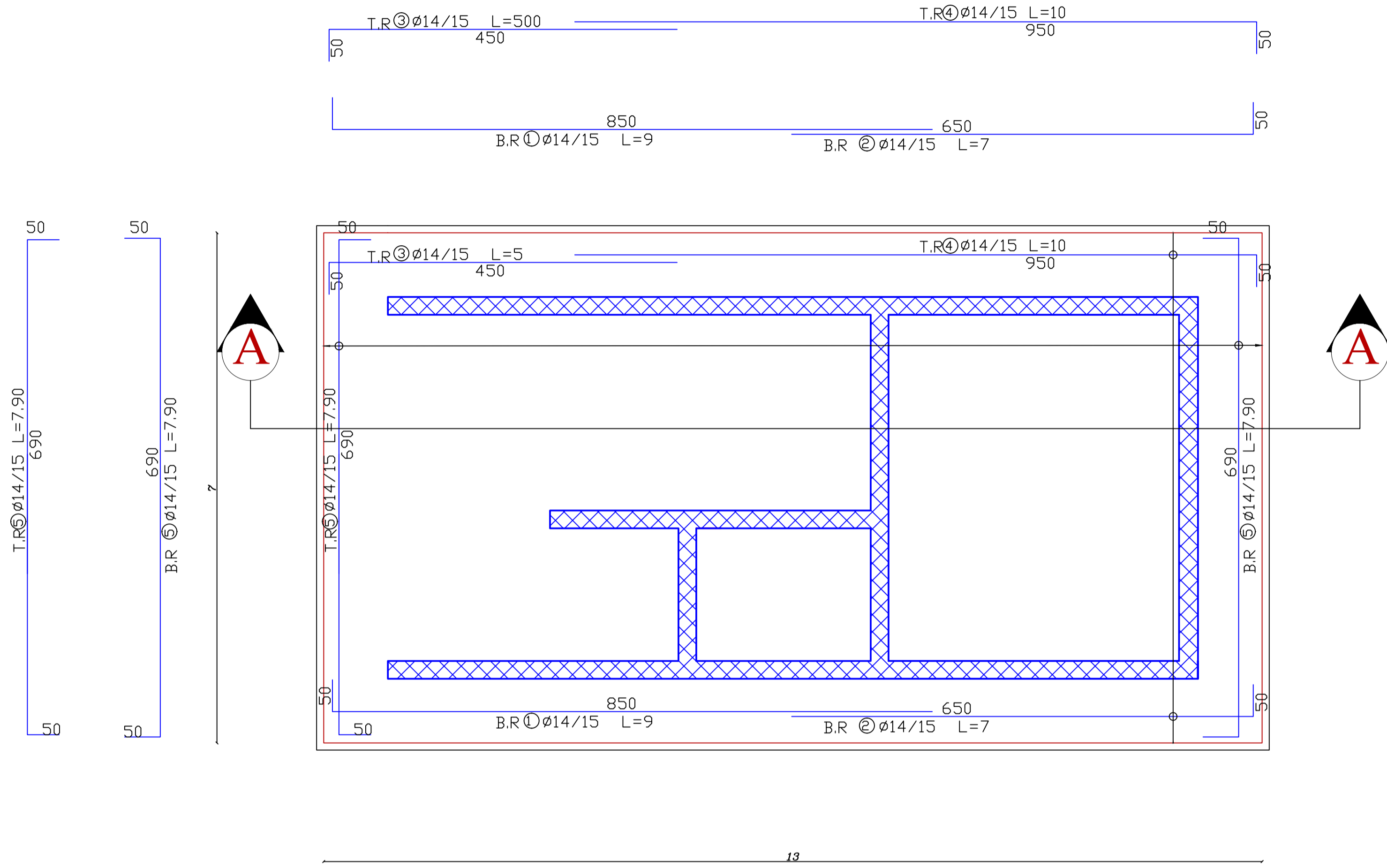
Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S2	21/1/2024

# Mat Foundation3

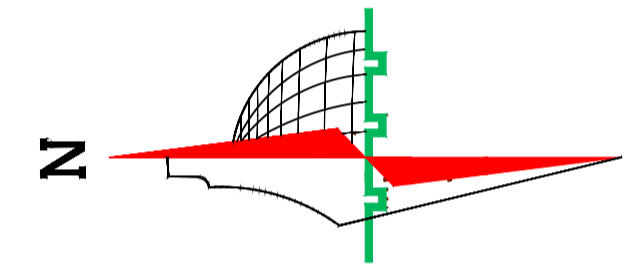
SCALE 1:25



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IVORY HOTEL & RESORT



### Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

Mat Footing 3

Supervisor

Dr.Maher Amro.

Done by :

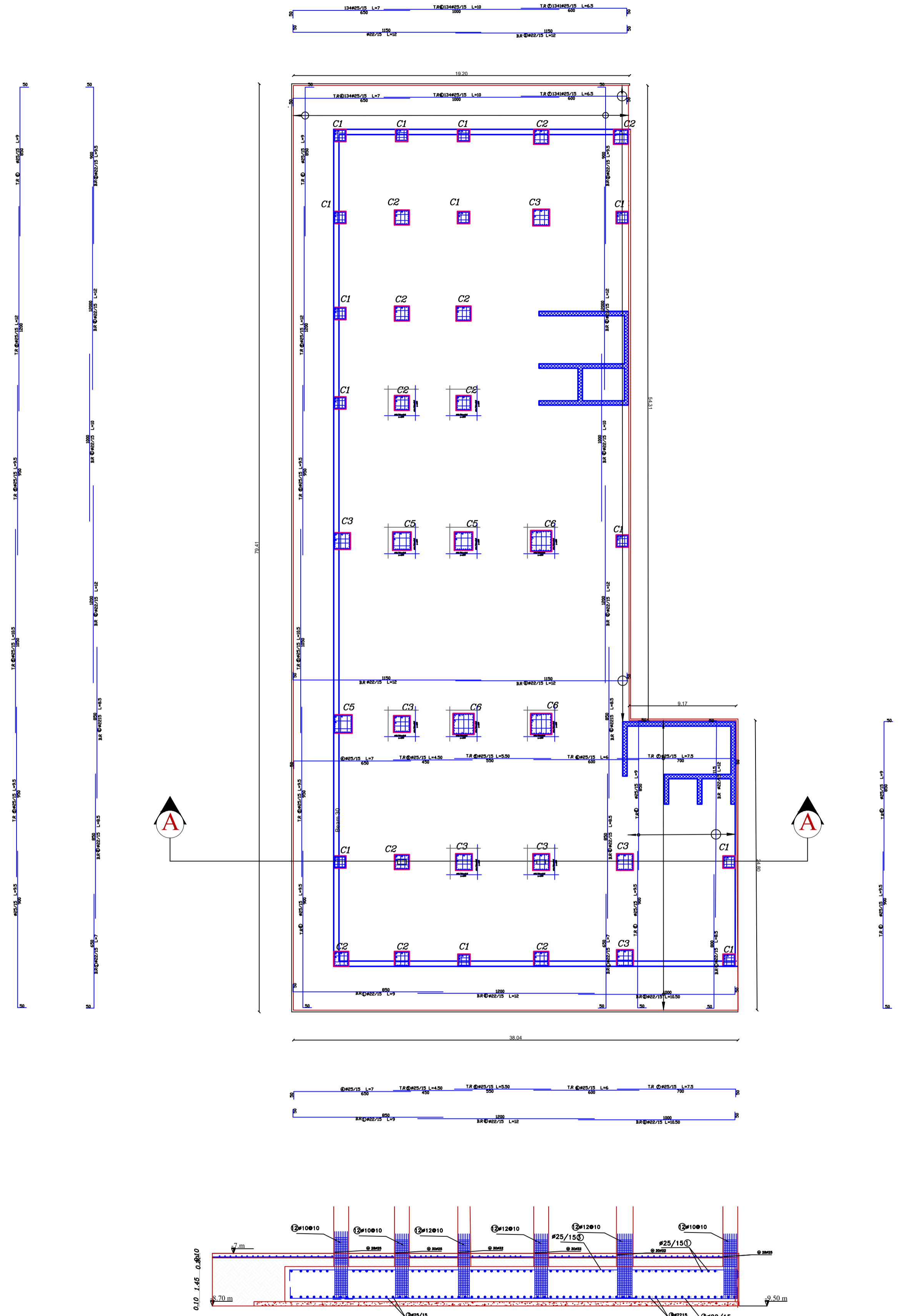
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S3	21/1/2024

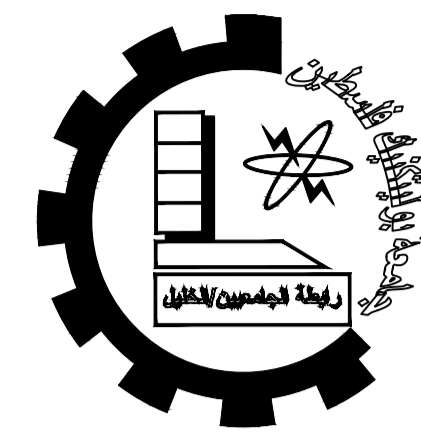


# Mat Foundation1

SCALE 1:15



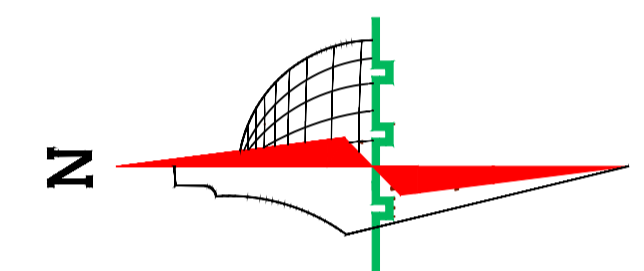
Mat Foundation1



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Graduation Project

IVORY HOTEL & RESORT



### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

Mat Footing 1

Supervisor

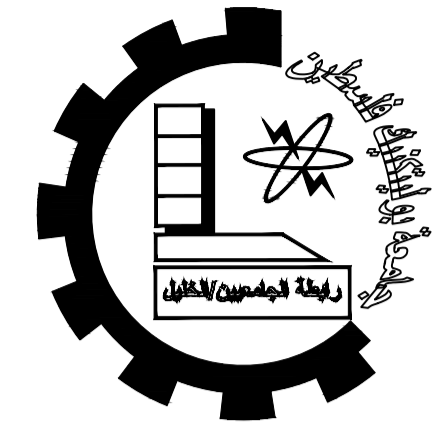
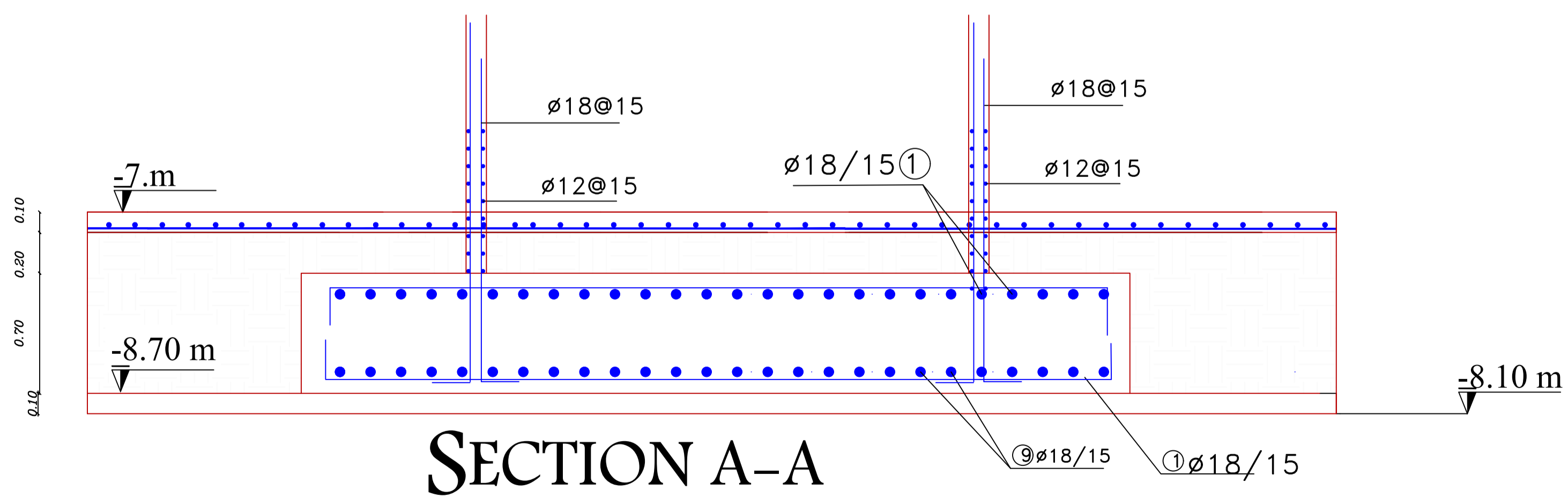
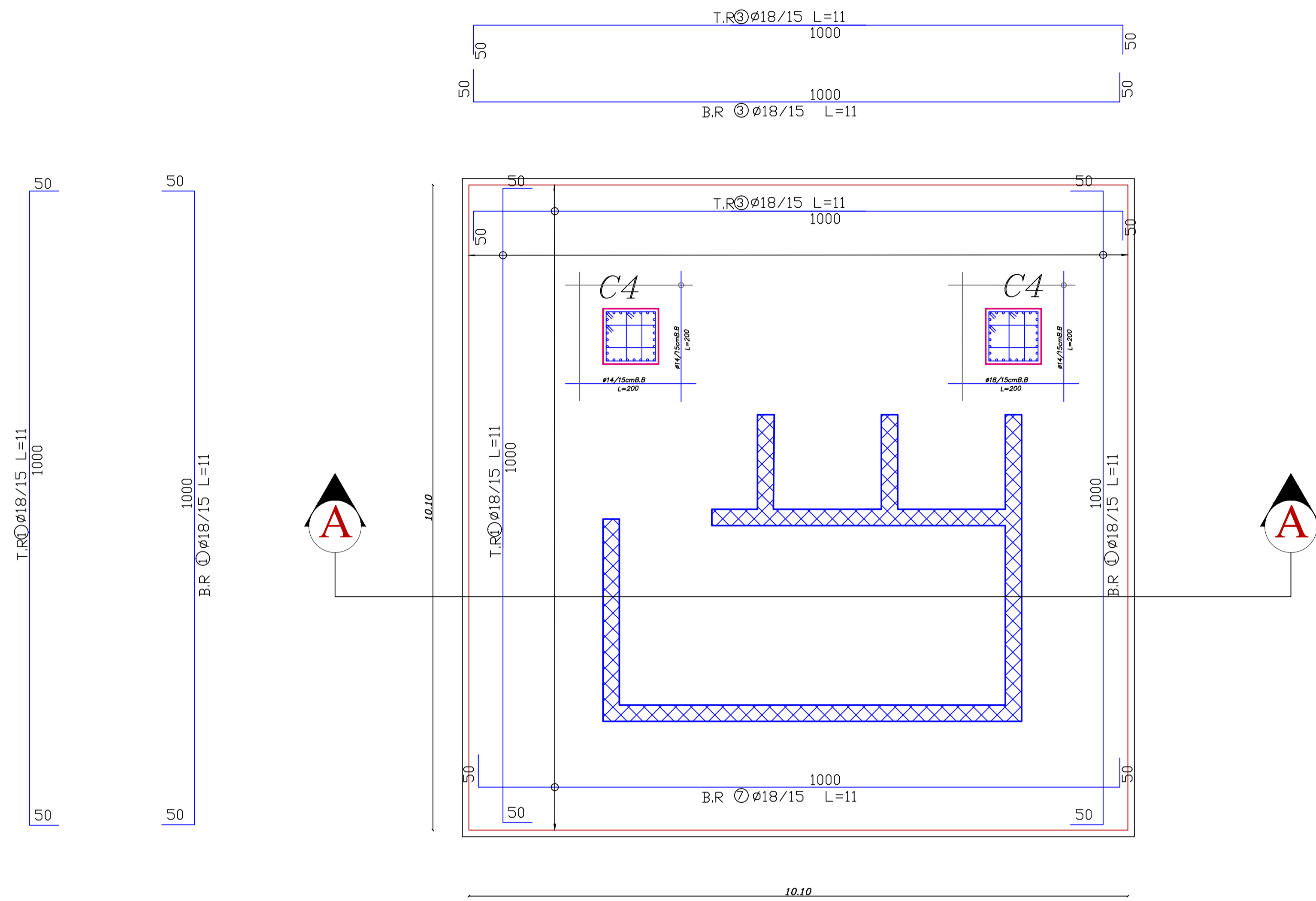
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S4	21/1/2024

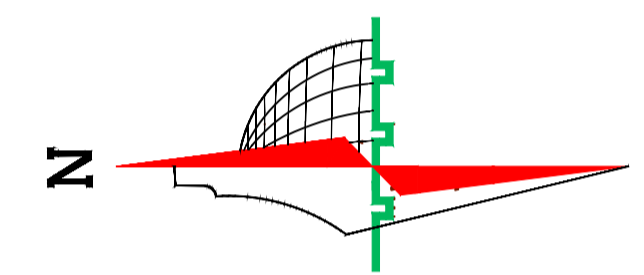
# Mat Foundation2



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Graduation Project

IVORY HOTEL & RESORT



### Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

Footings

Supervisor

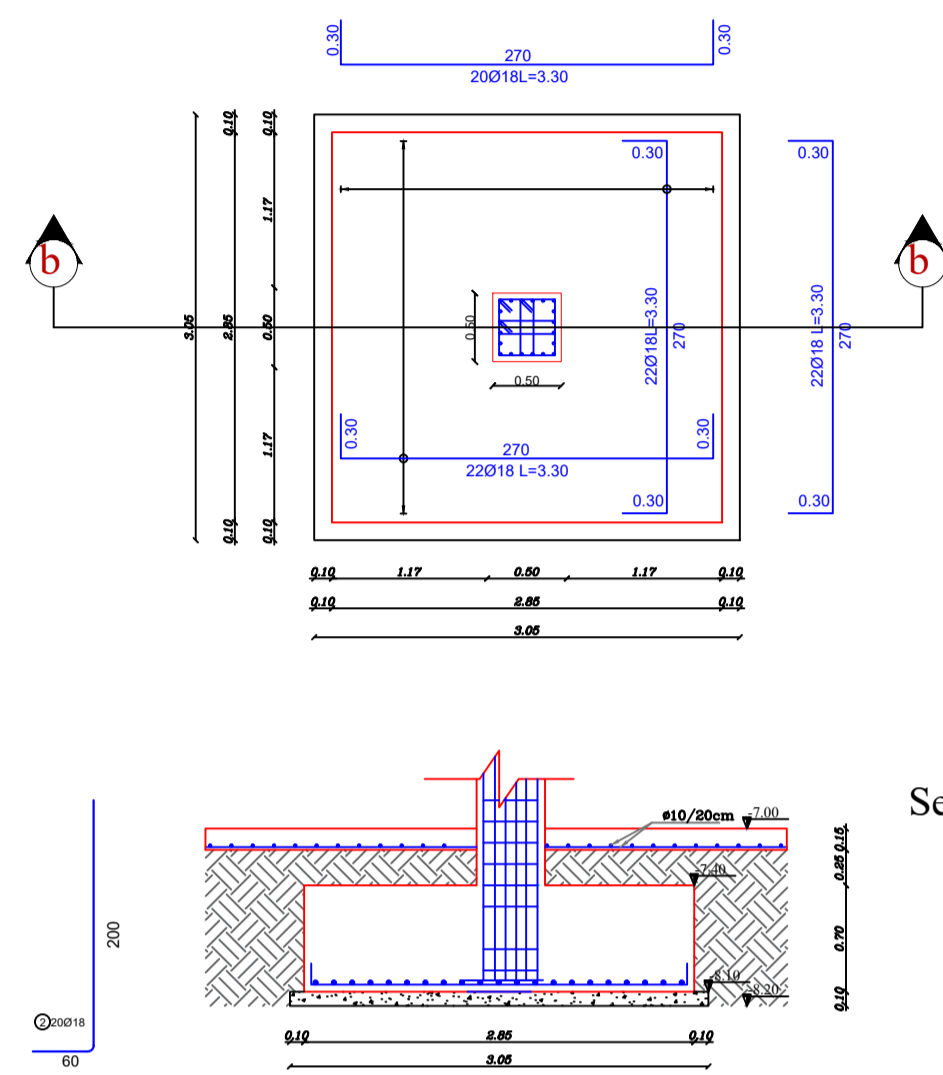
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

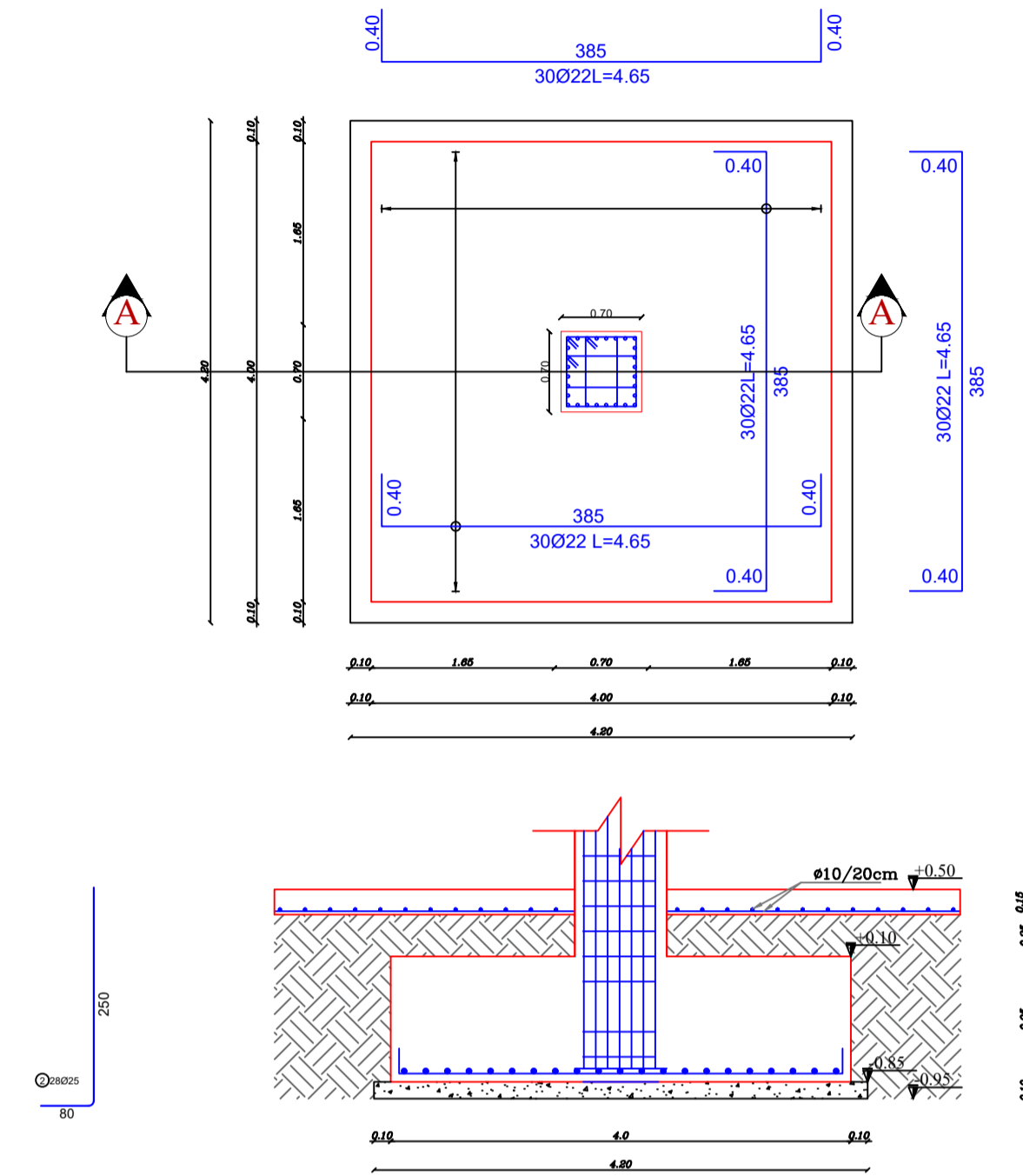
SCALE	No. of DRAW	DATE
1/250	S5	21/1/2024

F4(2.85X2.85X0.70)m  
SCALE 1:25



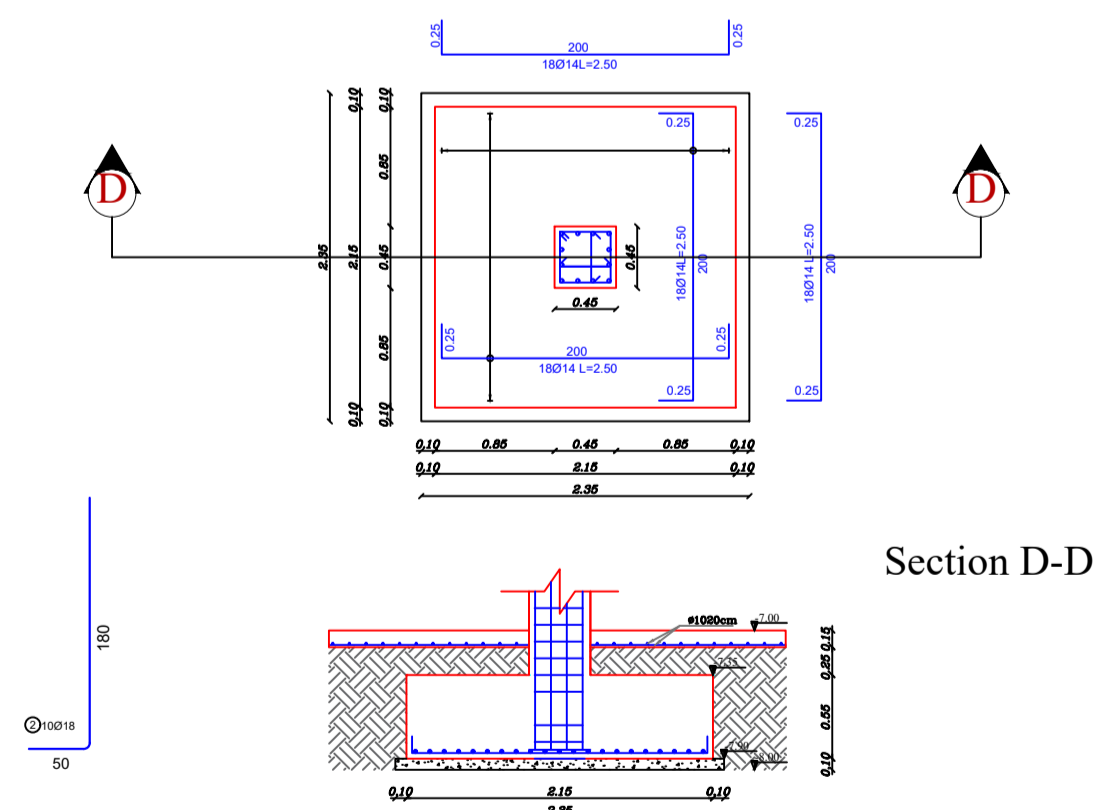
Section b-b

F1(4.00X4.00X0.95)m  
SCALE 1:25



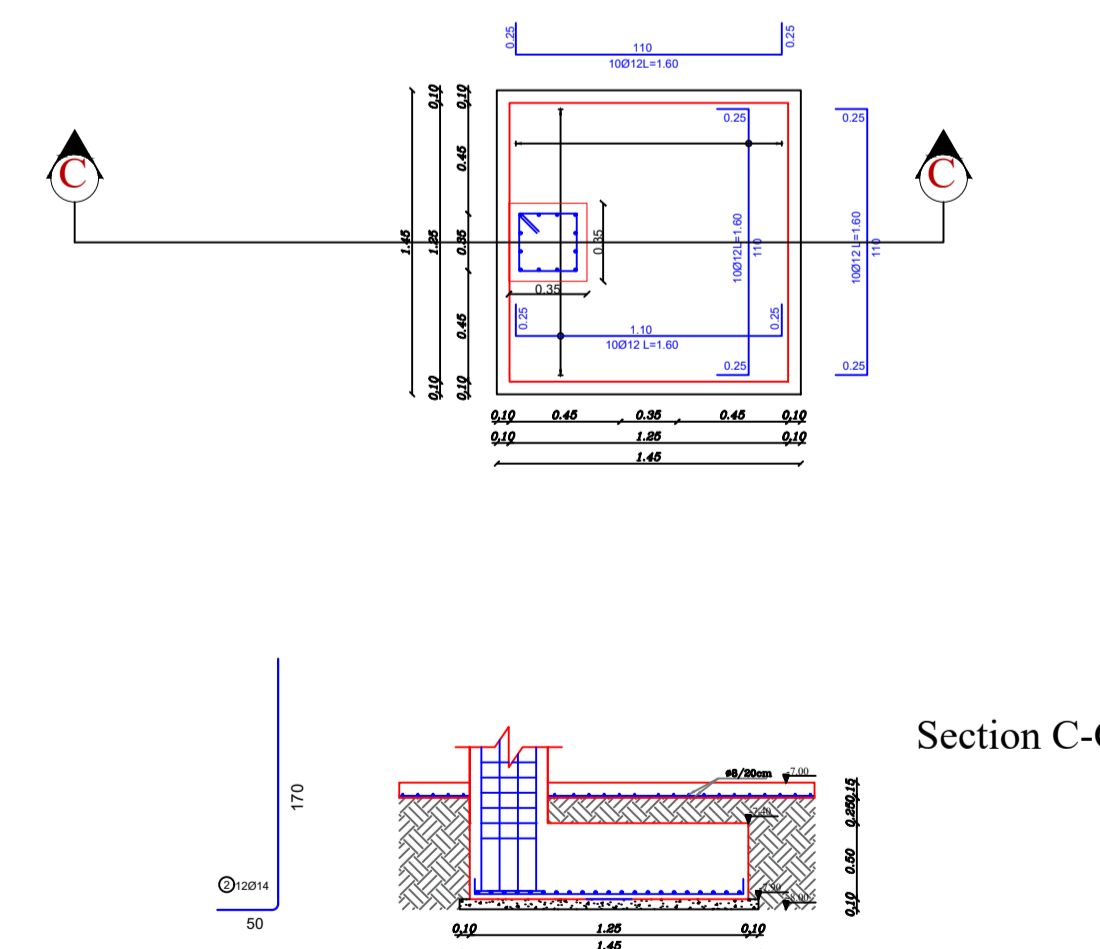
Section A-A

F3(2.15X2.15X0.55)m  
SCALE 1:25

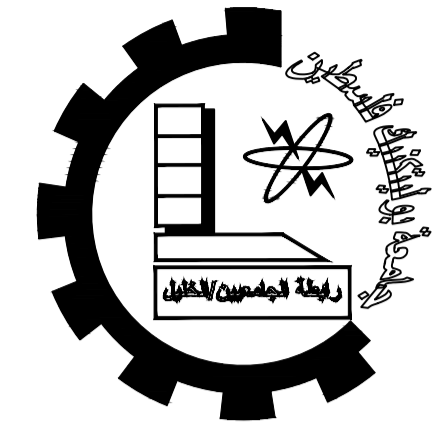


Section D-D

F1(1.25X1.25X0.50)m  
SCALE 1:25



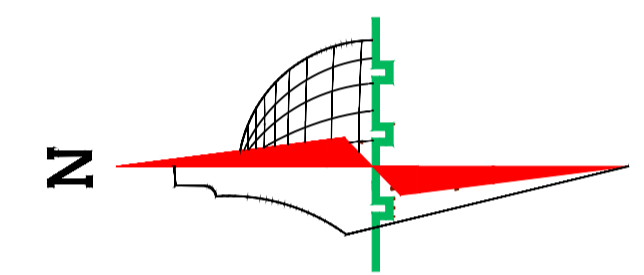
Section C-C



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Civil Engineering

Graduation Project

IVORY  
HOTEL &  
RESORT



Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

Footings

Supervisor

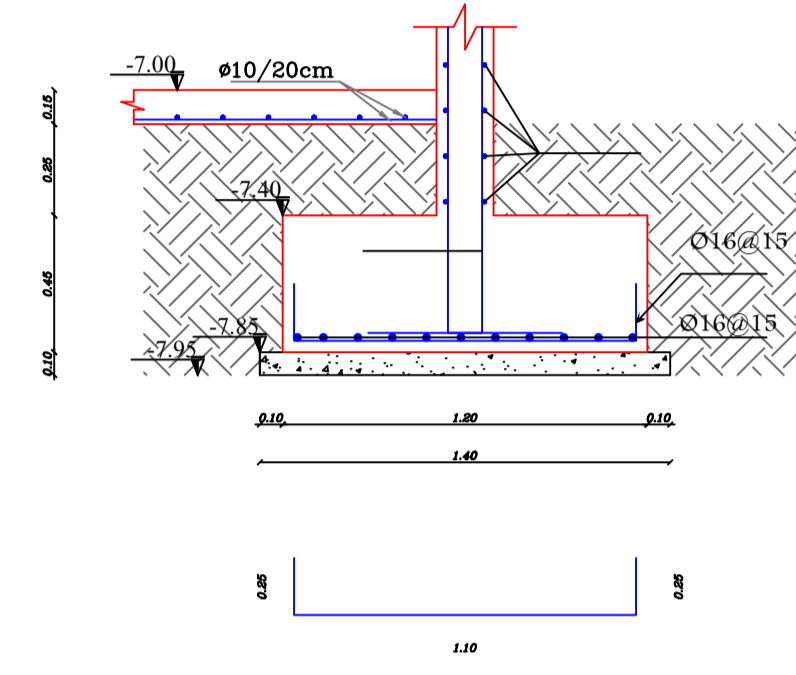
Dr.Maher Amro.

Done by :

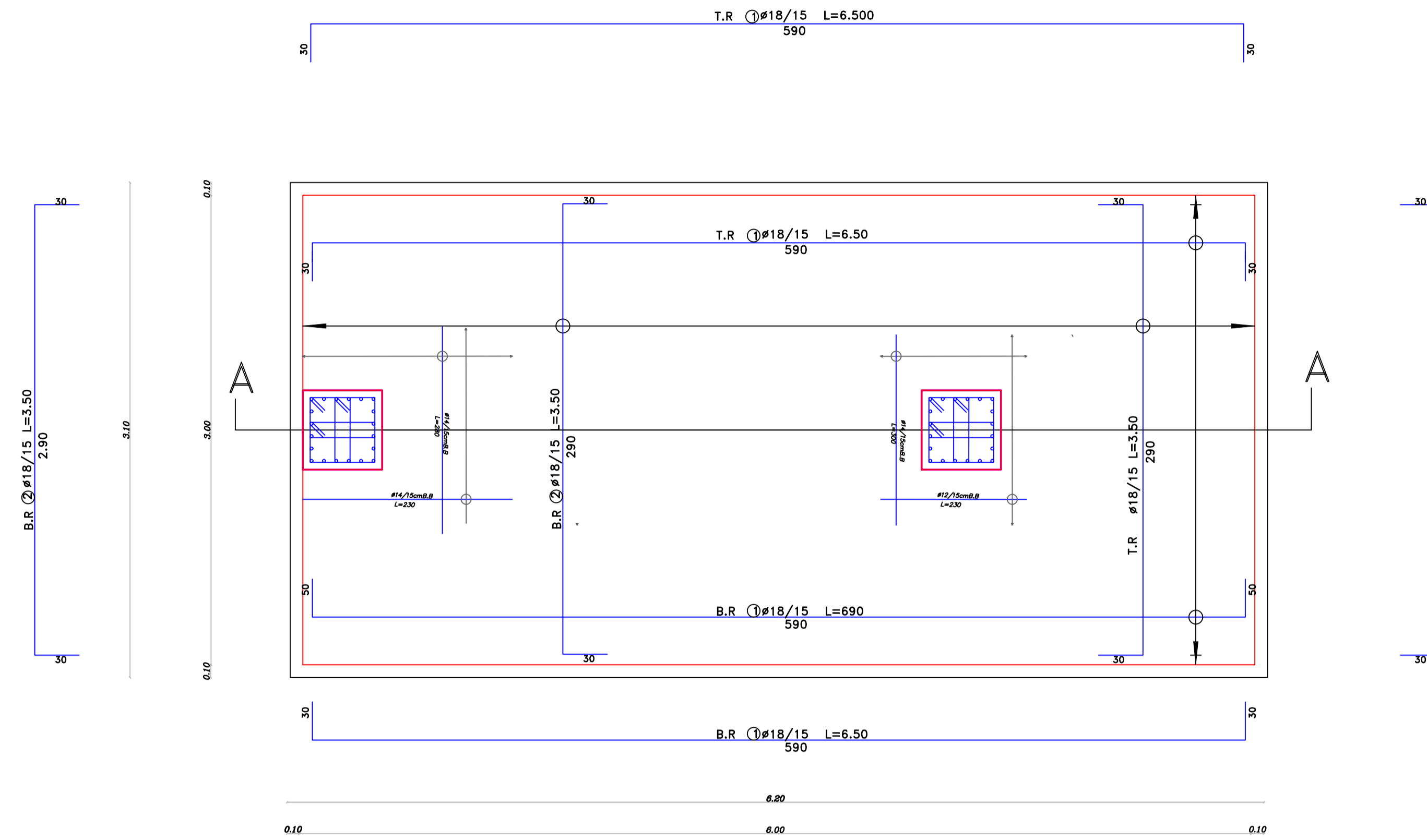
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S6	21/1/2024

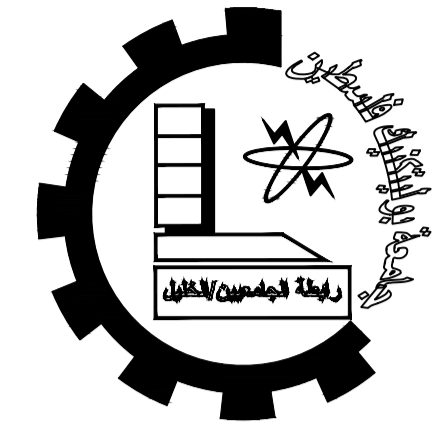
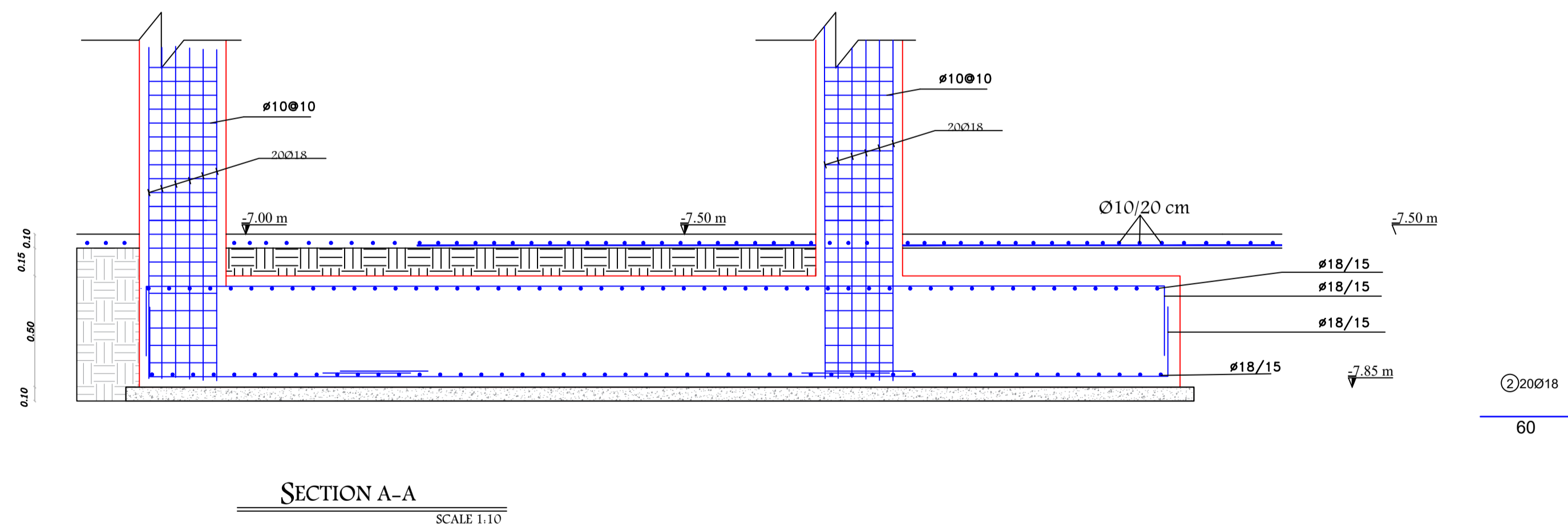
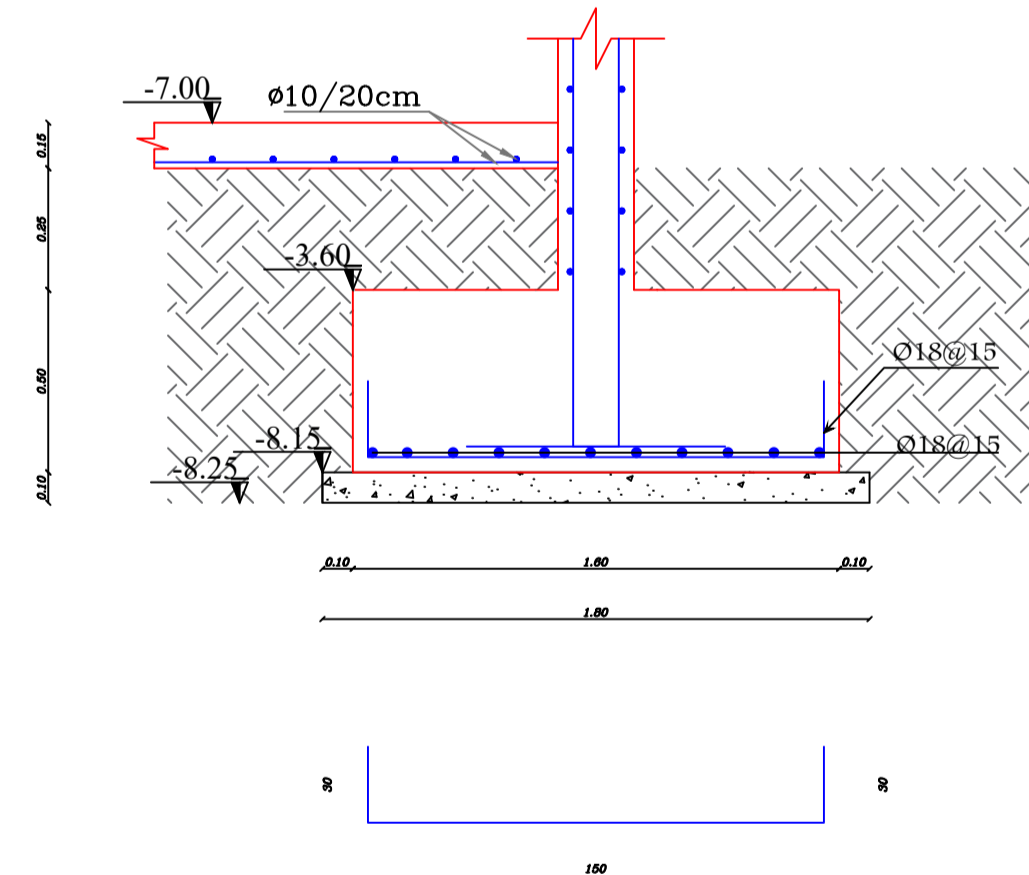
Strip Footing2  
Section 2-2  
SCALE 1:10



COMBINED FOOTING - C.F1(6x3.0)m



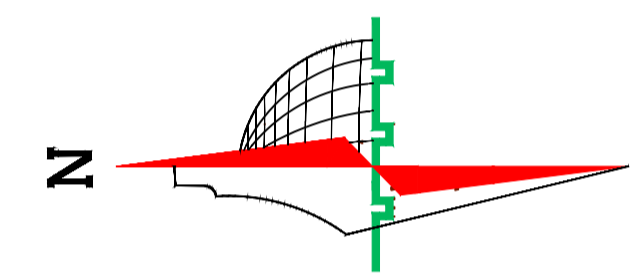
Strip Footing 1  
Section 1-1  
SCALE 1:25



Palestine Polytechnic University  
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Graduation Project

IVORY  
HOTEL &  
RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Footings

Supervisor

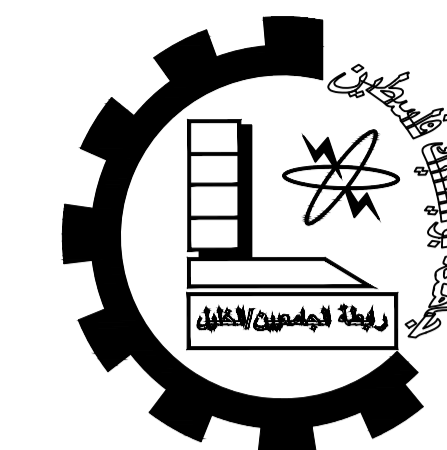
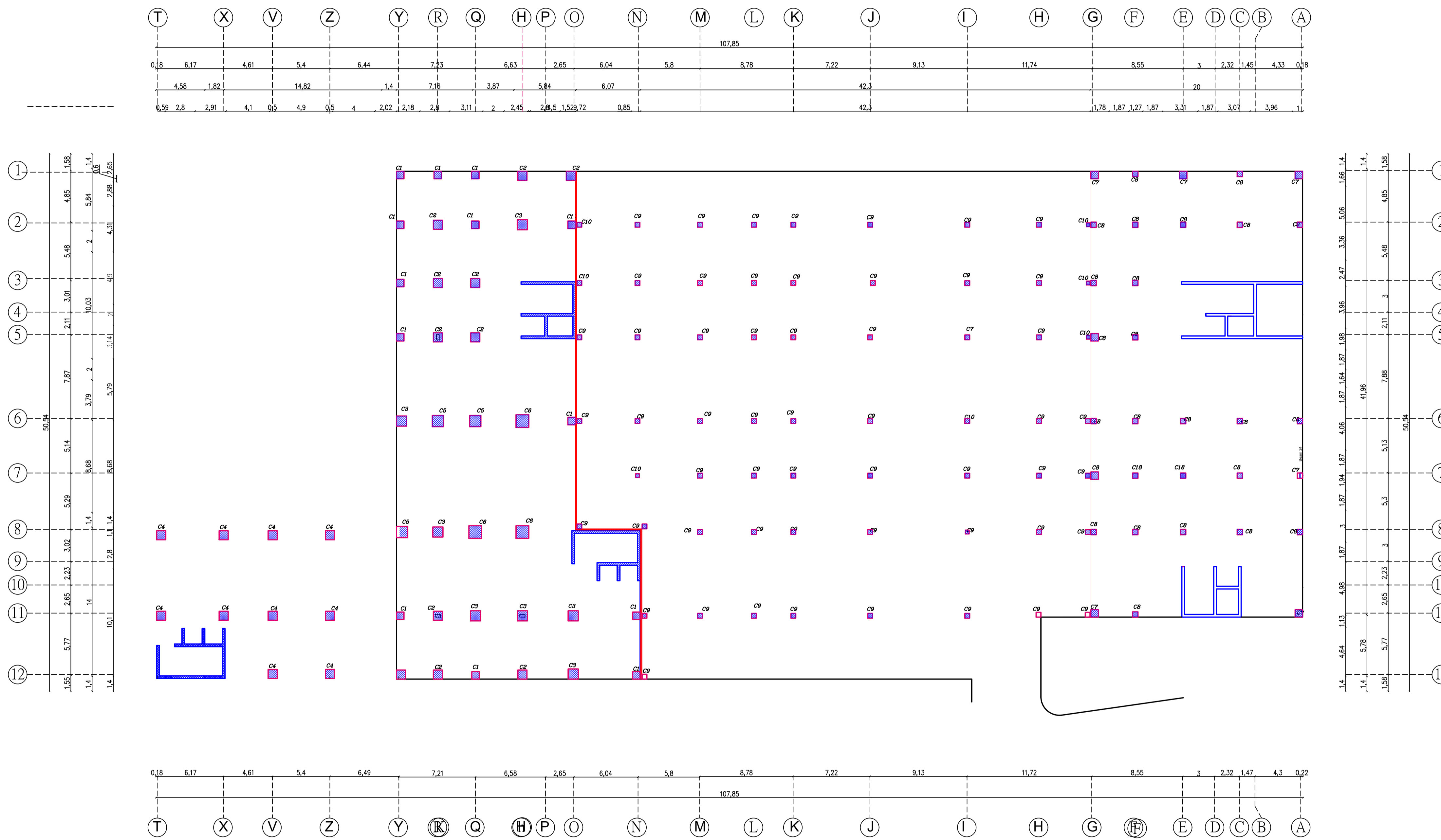
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S7	21/1/2024

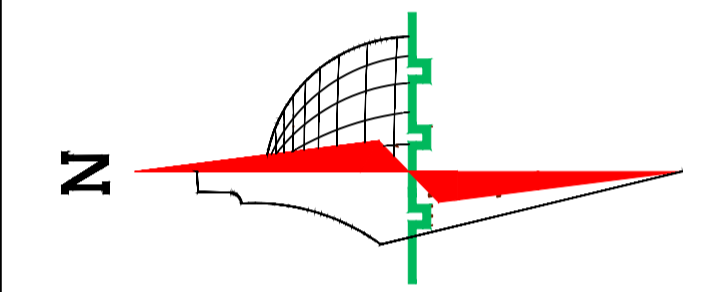
COLUMNS LAYOUT PLAN



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



- Legend :**
- Stone
  - R.Concrete
  - Concrete
  - Hollow Block
  - isolating materials
  - Gravel
  - Wood
  - HEXAGONAL TILES
  - BAKLAVA TILES
  - GRASS

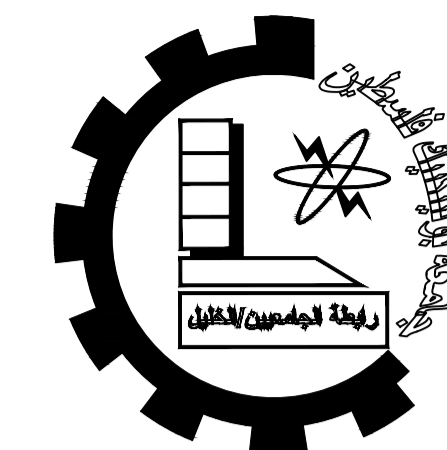
DRAWING TITLE :  
COLUMNS LAYOUT PLAN

Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S24	21/1/2024

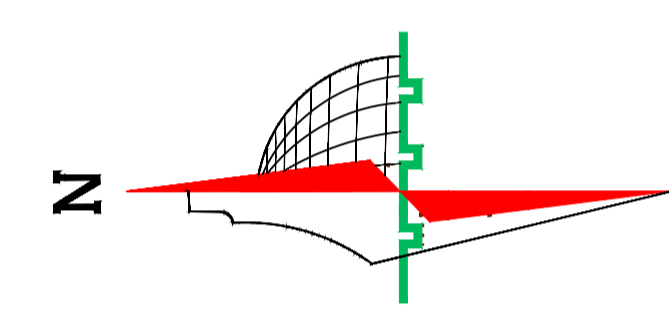
Floor	Column's Design Sections									
	C1 DL = 4000 KN LL = 3500 KN	C2 DL = 6000 KN LL = 4500 KN	C3 DL = 8000KN LL = 6000 KN	C4	C5 DL = 9000 KN LL = 7500 KN	C6 DL = 11000 KN LL = 9000 KN	C7 DL = 4000 KN LL = 3500 KN	C8 DL = 2000 KN LL = 1500 KN	C9 DL = 1600KN LL = 500 KN	C10 DL = 500 KN LL = 200 KN
Basment 1st	 28 Ø25	 30 Ø25	 30 Ø32		 34 Ø32	 30 Ø32	 28 Ø25	 20Ø18	 10Ø18	 12Ø14
Basment 2st	 28 Ø25	 30 Ø25	 30 Ø32		 34 Ø32	 30 Ø32	 28 Ø25	 20Ø18	 10Ø18	 12Ø14
Ground Floor	 20 Ø25	 24 Ø20	 28 Ø32	 20 Ø25	 28 Ø32	 32 Ø32	 22 Ø18	 10Ø18		
TT Floor	 20 Ø25	 24 Ø20	 28 Ø32	 20 Ø25	 28 Ø32	 32 Ø32	 22 Ø18	 10Ø18		
1F Floor	 12 Ø25	 24 Ø20	 20 Ø20	 12 Ø25	 28 Ø25	 28 Ø32	 18Ø14	 10Ø18		
2nd Floor	 12 Ø25	 24 Ø20	 20 Ø20	 12 Ø25	 28 Ø25	 28 Ø32	 18Ø14	 10Ø18		
3rd Floor	 12 Ø25	 24 Ø20	 20 Ø20	 12 Ø25	 28 Ø25	 28 Ø32				
4TH Floor	 12 Ø25	 24 Ø20	 18 Ø18	 12 Ø25	 24 Ø18	 14 Ø25				
5TH Floor	 12 Ø25	 24 Ø20	 18 Ø18	 12 Ø25	 24 Ø18	 14 Ø25				
6TH Floor	 12 Ø25	 24 Ø20	 20 Ø14	 12 Ø25	 18 Ø18	 10 Ø25				
7THnd Floor	 12 Ø25	 24 Ø20	 20 Ø14	 12 Ø25	 18 Ø18	 10 Ø25				



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Graduation Project

IVORY HOTEL & RESORT



**Legend :**

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

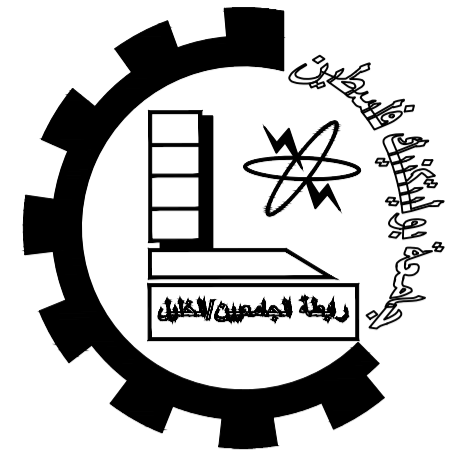
DRAWING TITLE :

Columns Detaling

Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S25	21/1/2024



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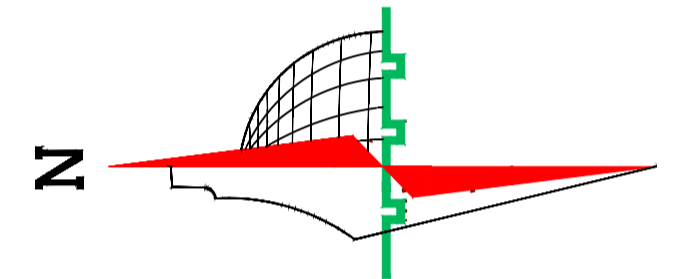
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

COLUMN C7 & C8&C9&C10

Supervisor

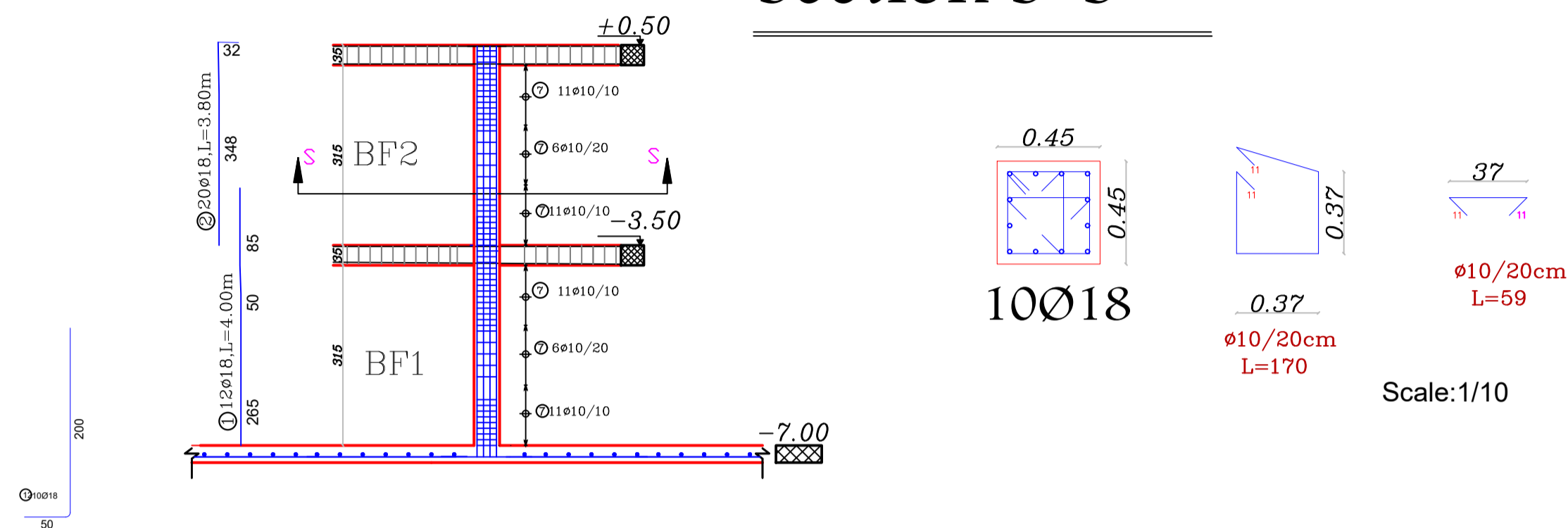
Dr.Maher Amro.

Done by :

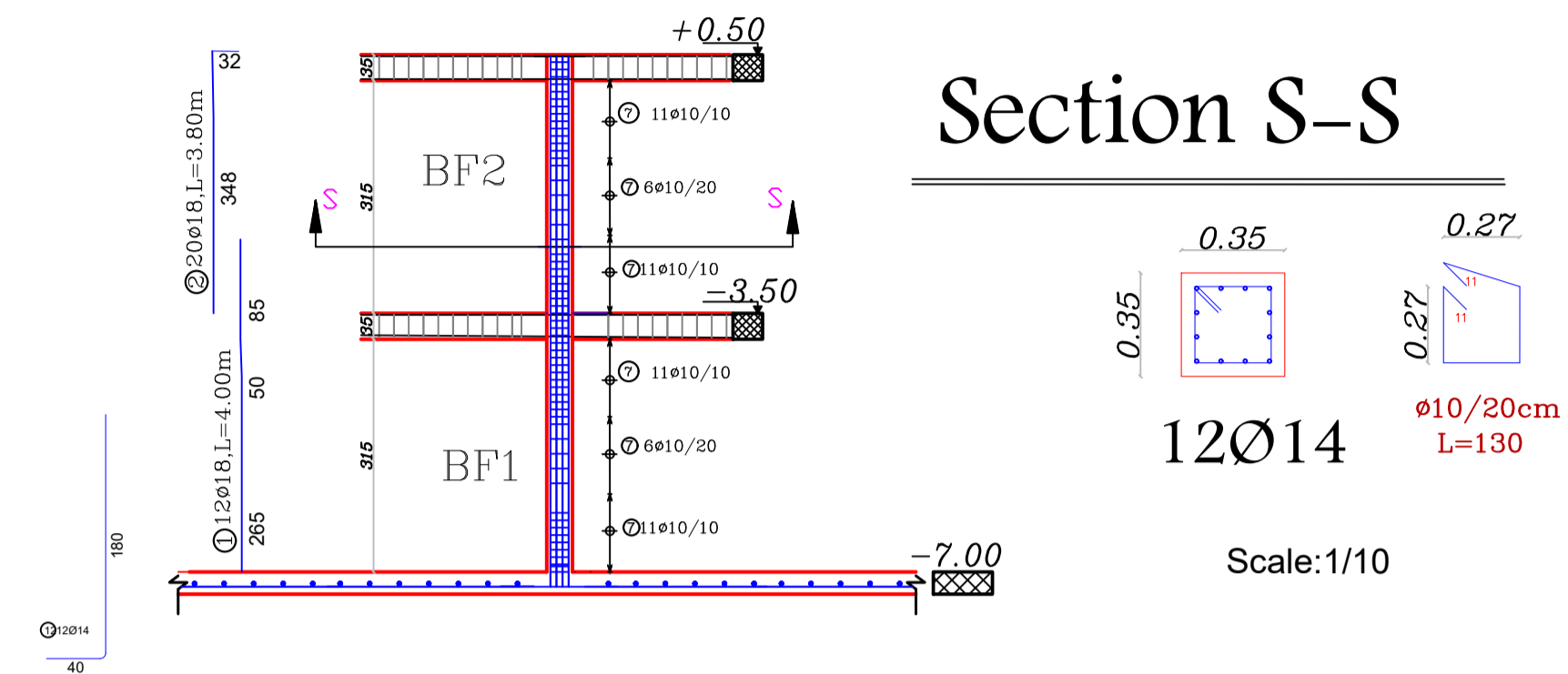
*Khaled najjar*  
*Nizar al sharaya*  
*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	S26	21/1/2024

**Section S-S**



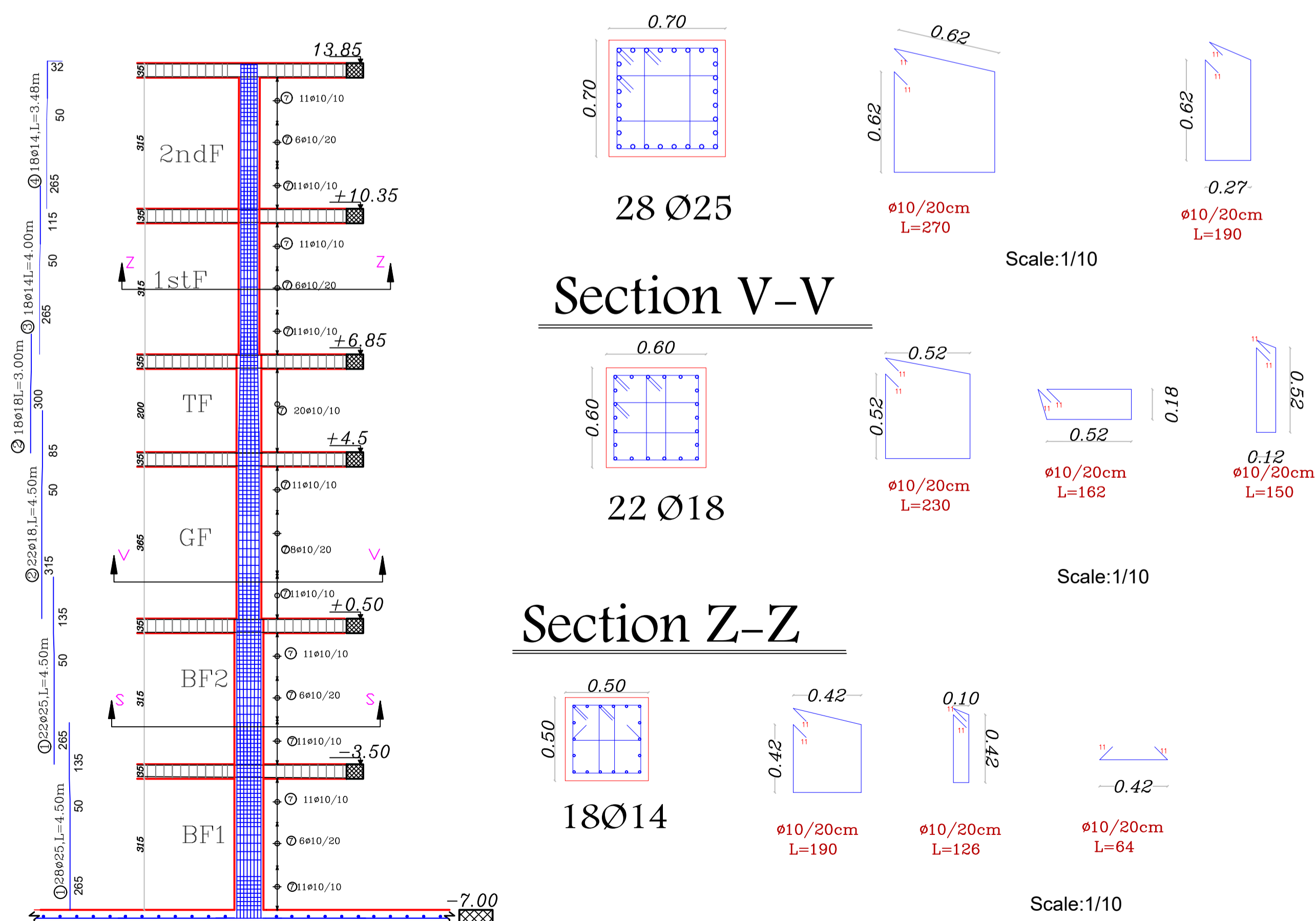
**Section S-S**



\*Typical shear Reinforcement

**C7**

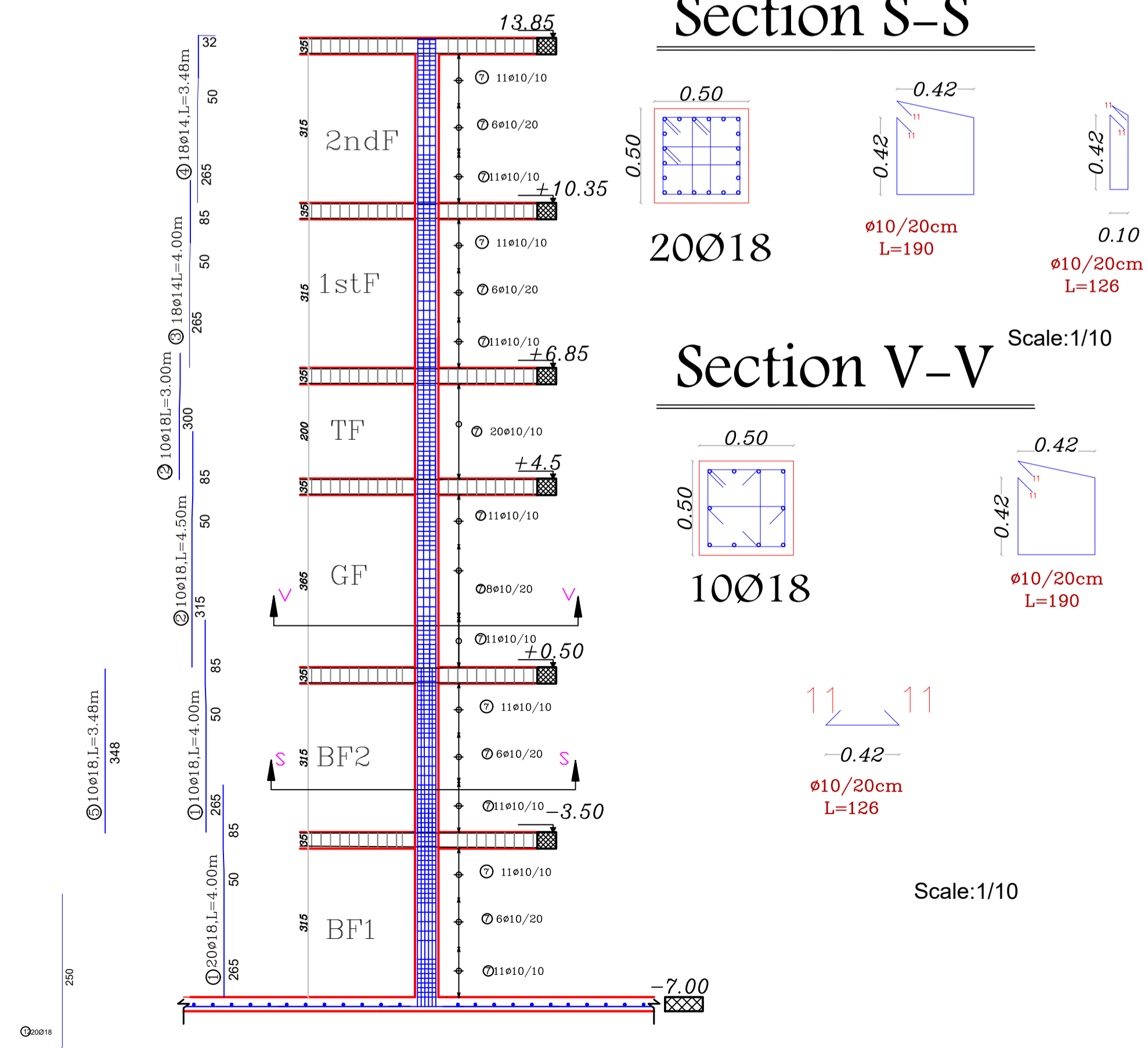
**Section S-S**



\*Typical shear Reinforcement

**C8**

**Section S-S**



**Section V-V**

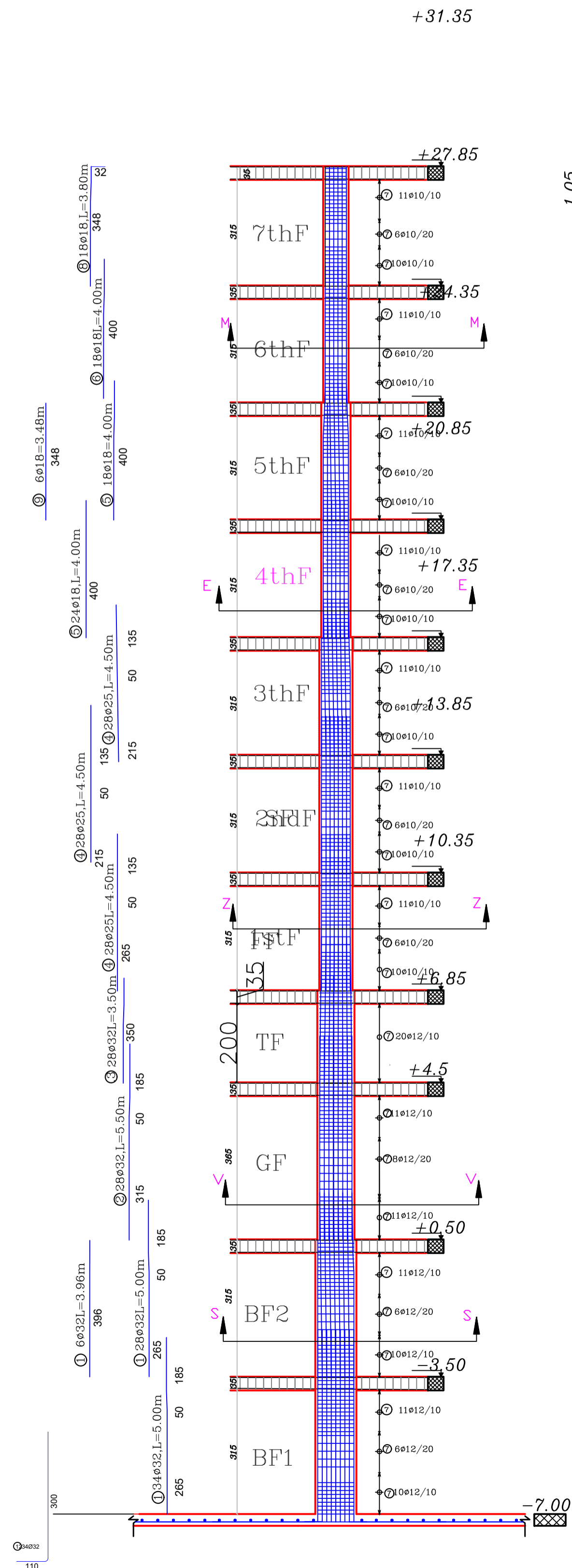
**Section Z-Z**

**Section V-V**

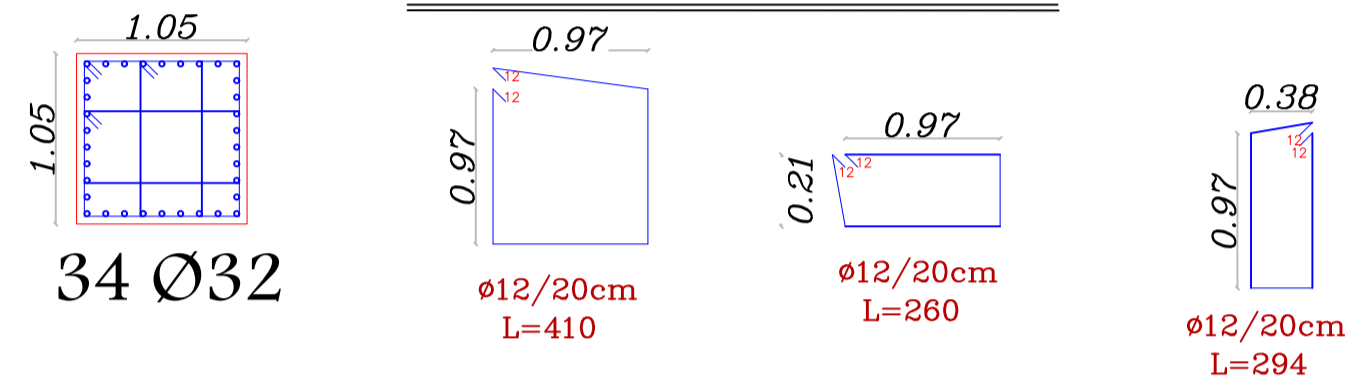
# COLUMN C5 & C6

\*Typical shear  
Reinforcement

## C5

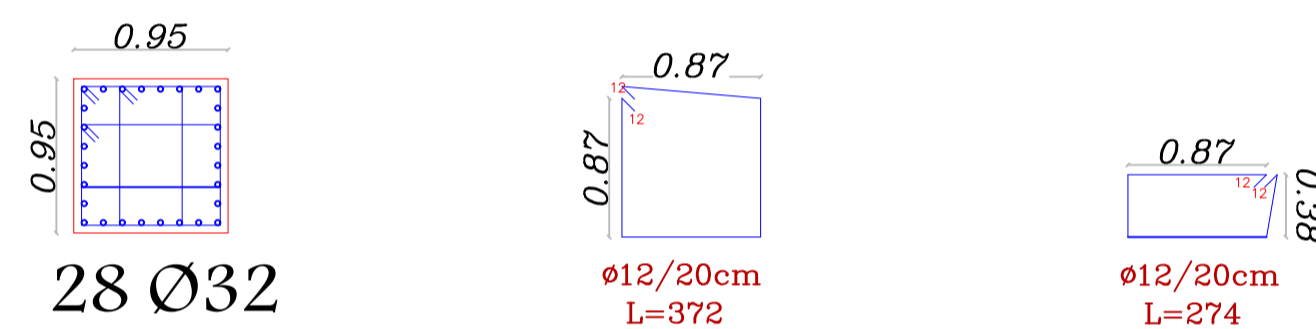


### Section S-S



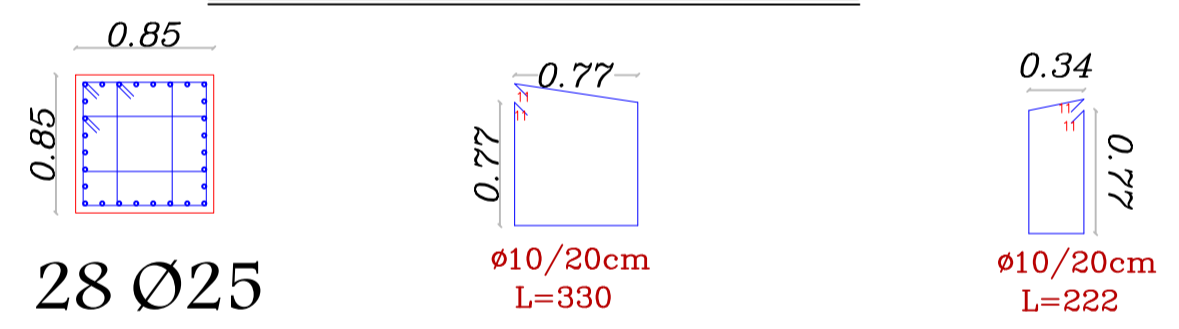
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### Section V-V



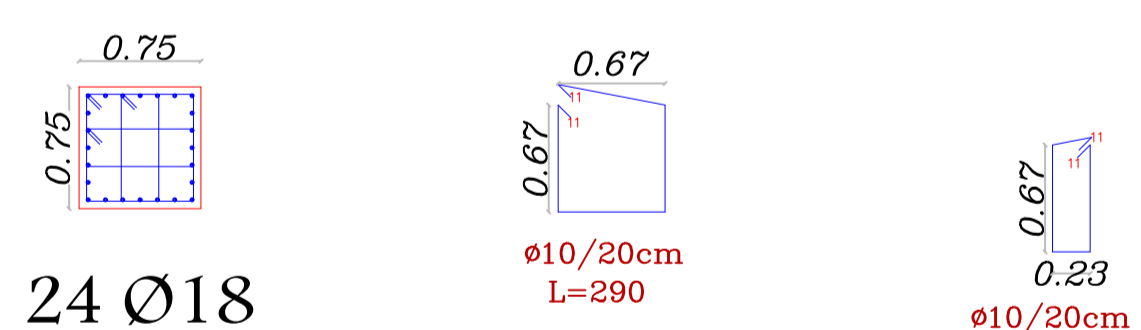
Scale: 1/5

### Section Z-Z



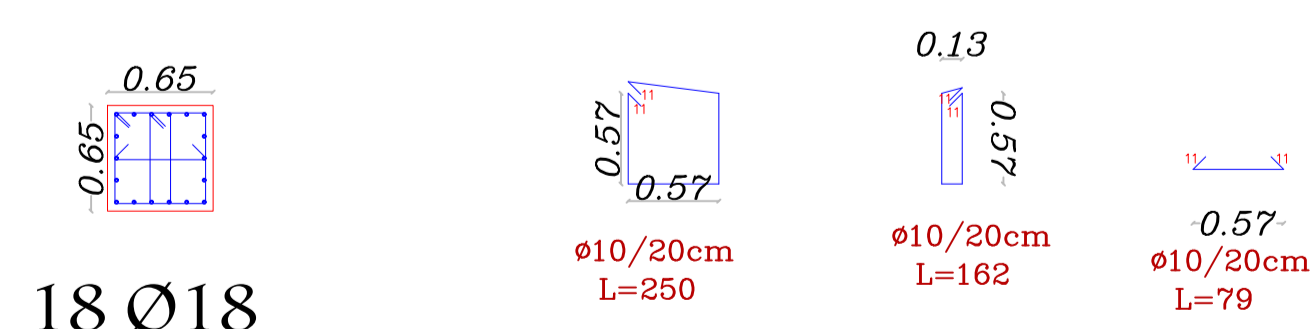
Scale: 1/5

### Section E-E



Scale: 1/5

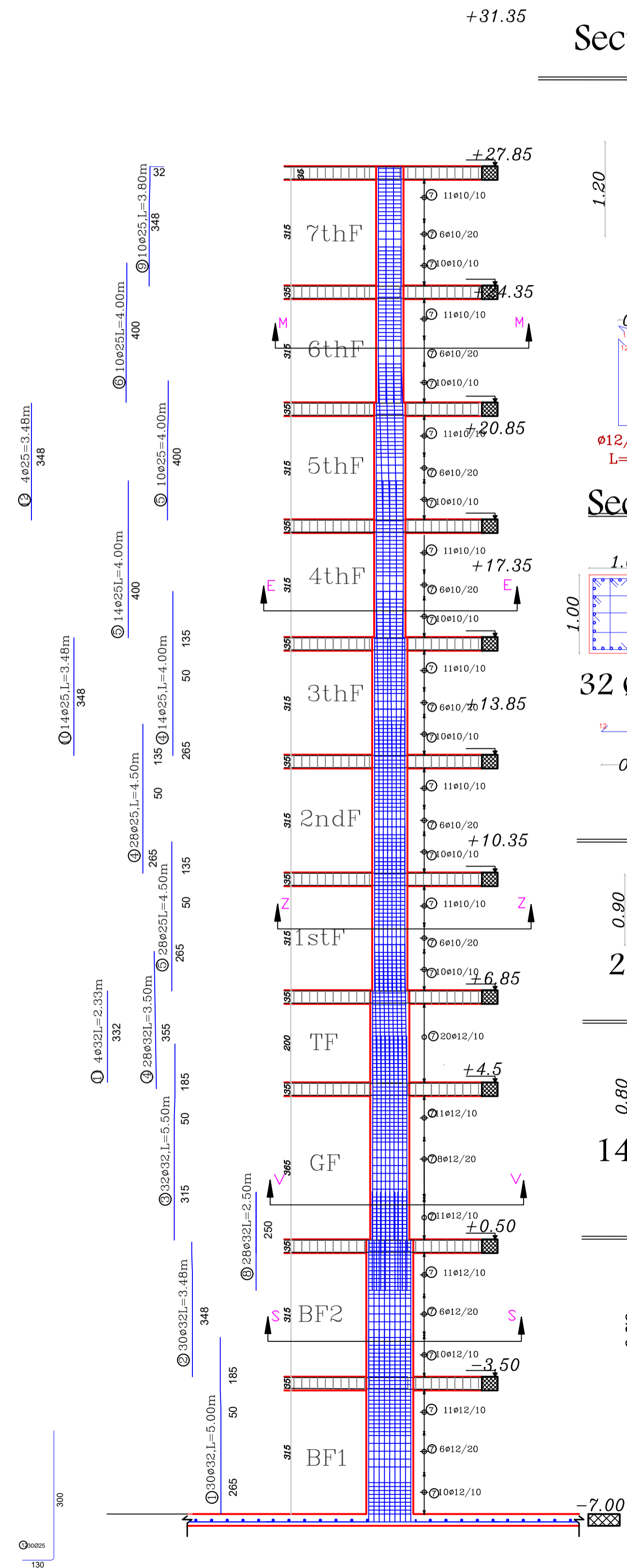
### Section M-M



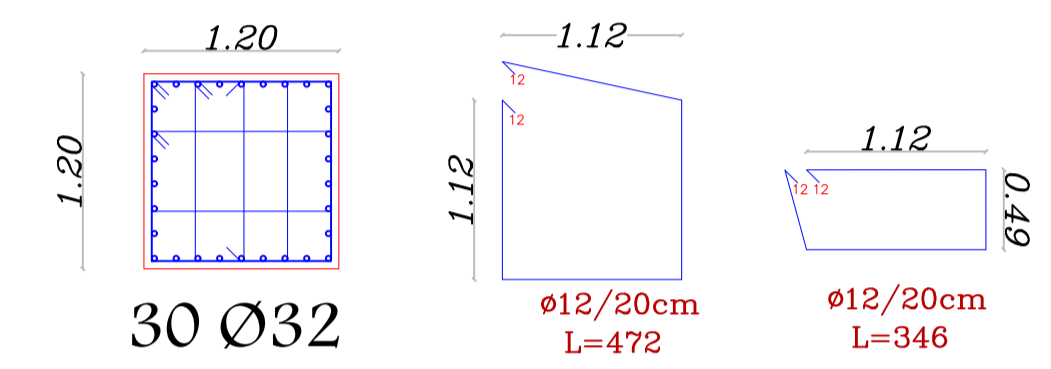
Scale: 1/5

\*Typical shear  
Reinforcement

## C6

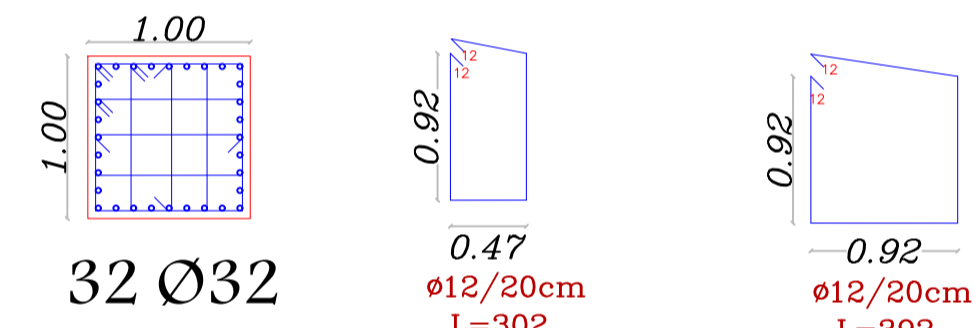


### Section S-S



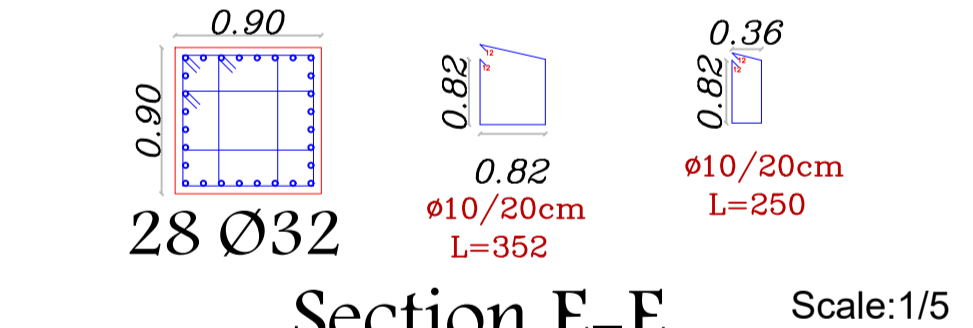
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### Section V-V



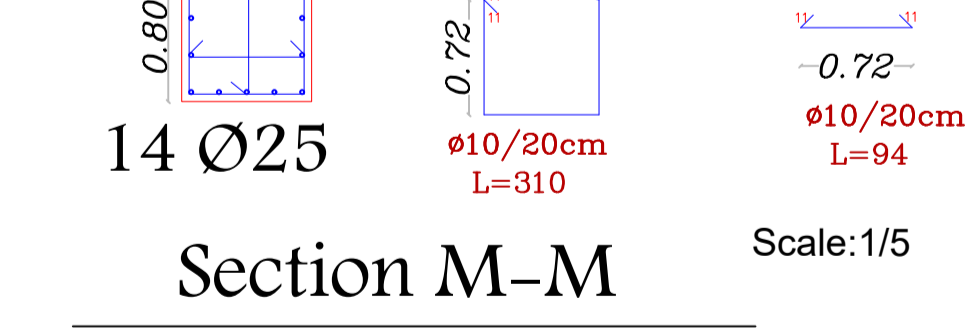
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### Section Z-Z



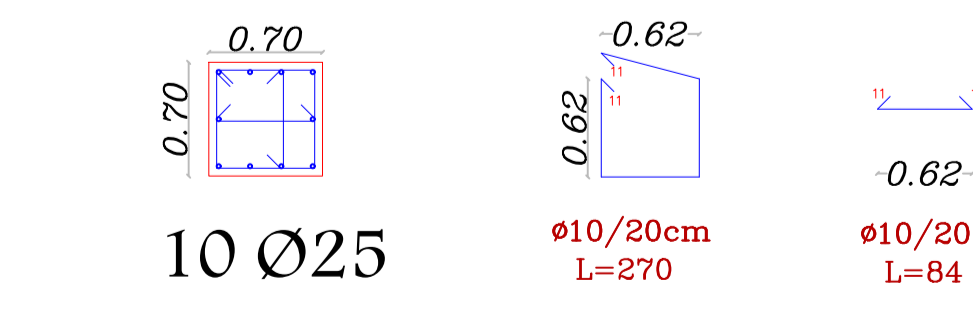
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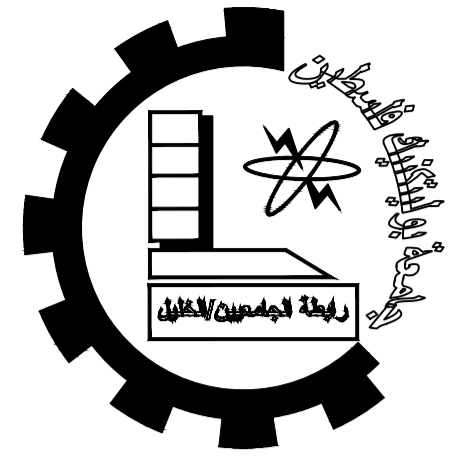


Scale: 1/5

### Section M-M



Scale: 1/5



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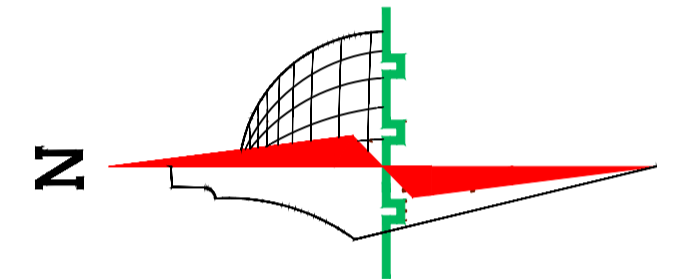
College of Engineering

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IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

COLUMN C5 & C6

Supervisor

Dr.Maher Amro.

Done by :

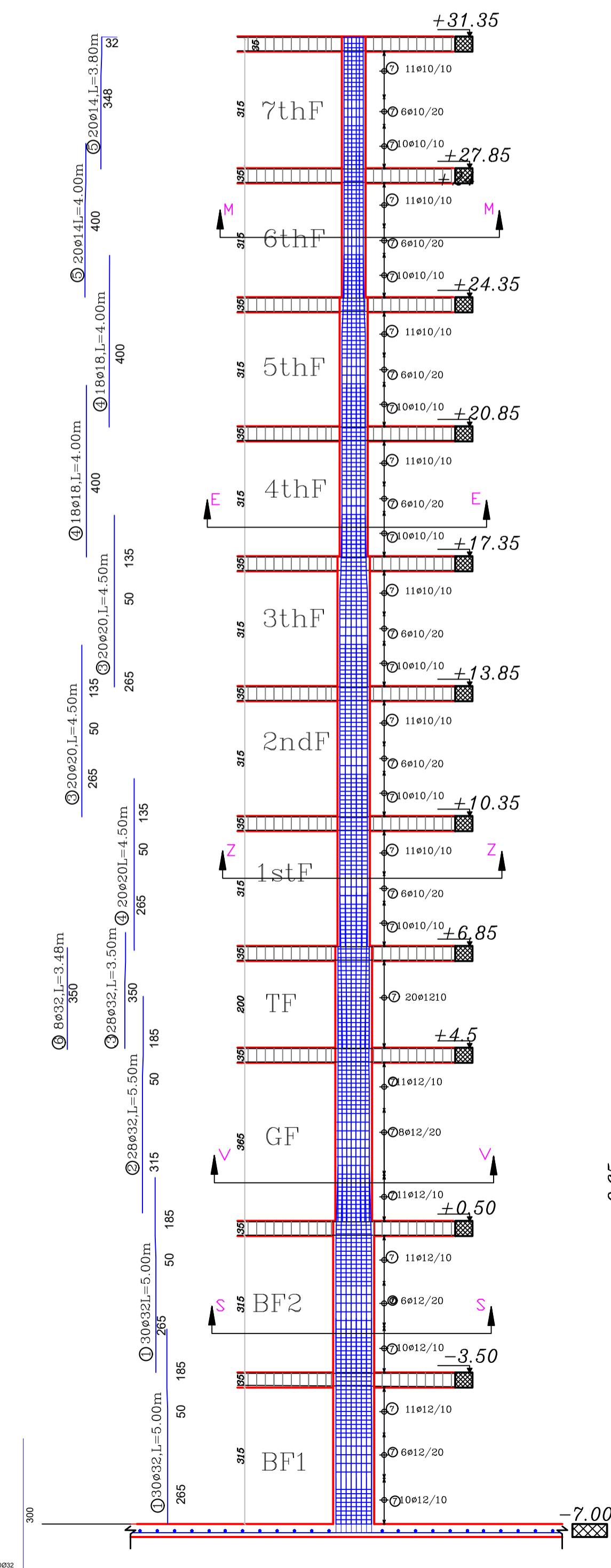
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
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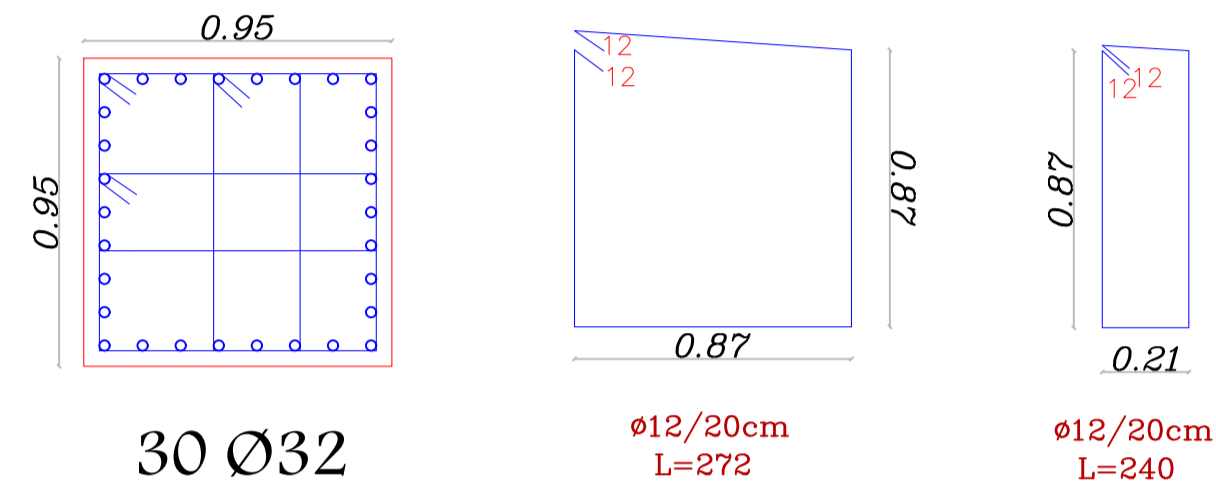
1/250	S27	21/1/2024
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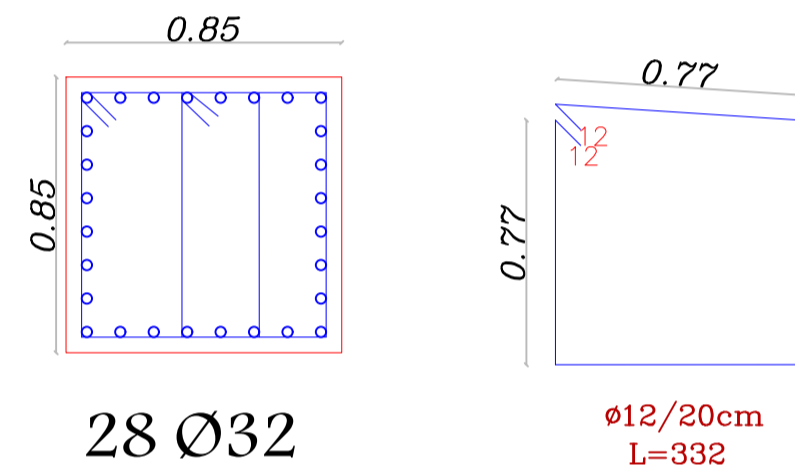
\*Typical shear Reinforcement **C3**



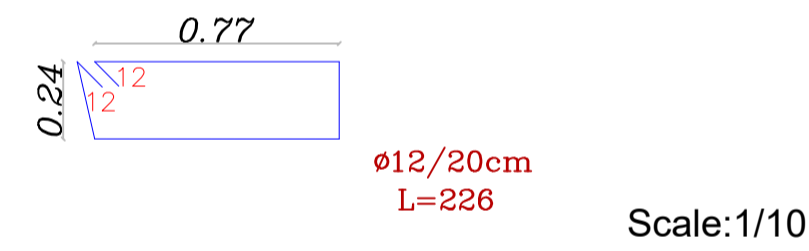
Section S-S



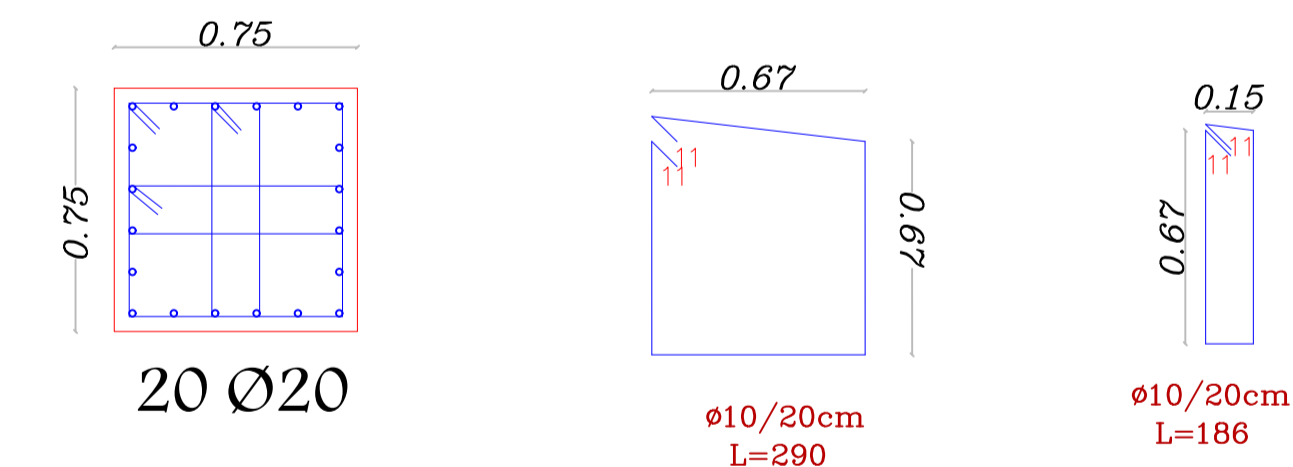
Section V-V Scale:1/10



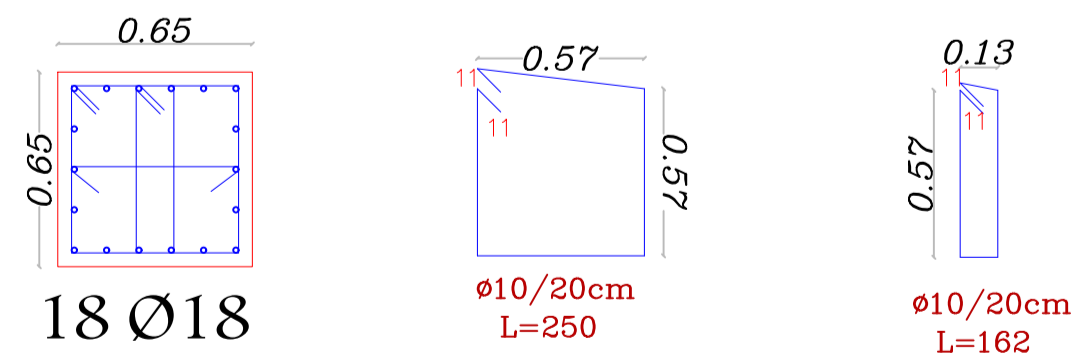
Section Z-Z



Section E-E



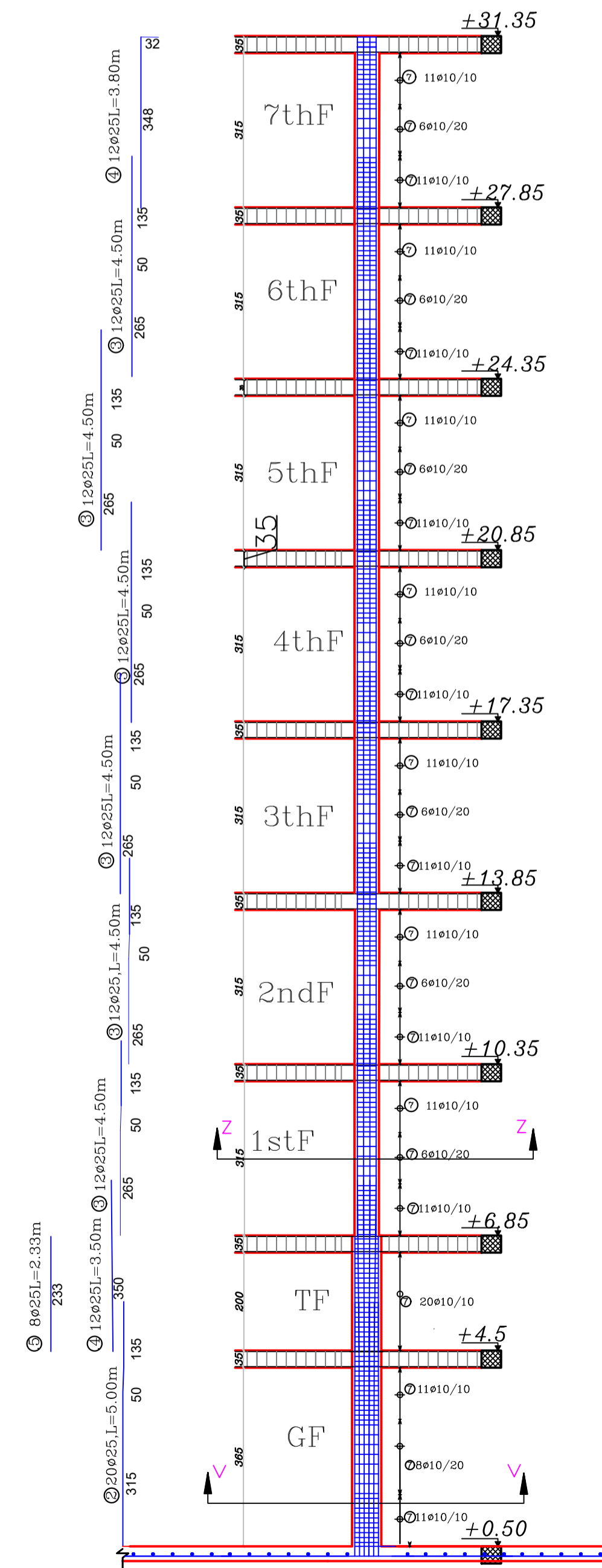
Section M-M



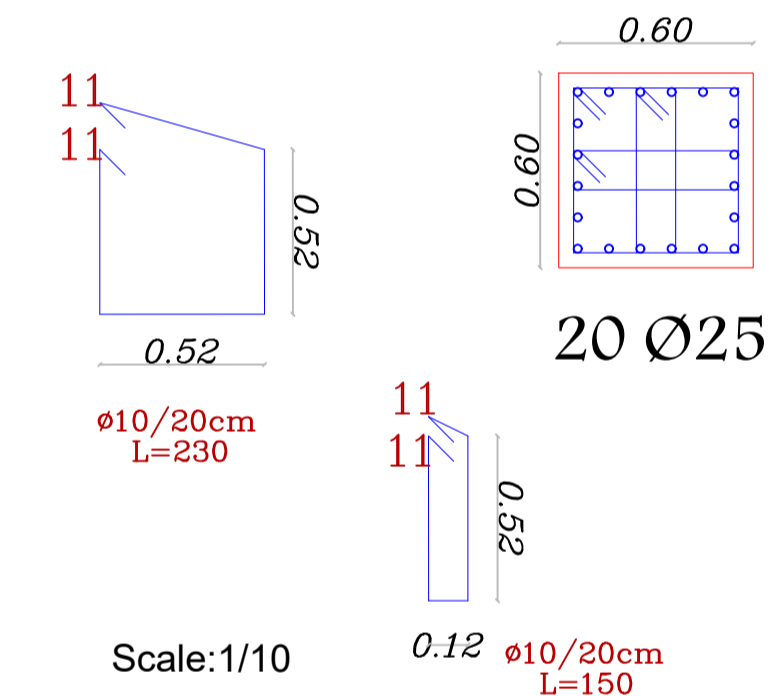
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Scale:1/10

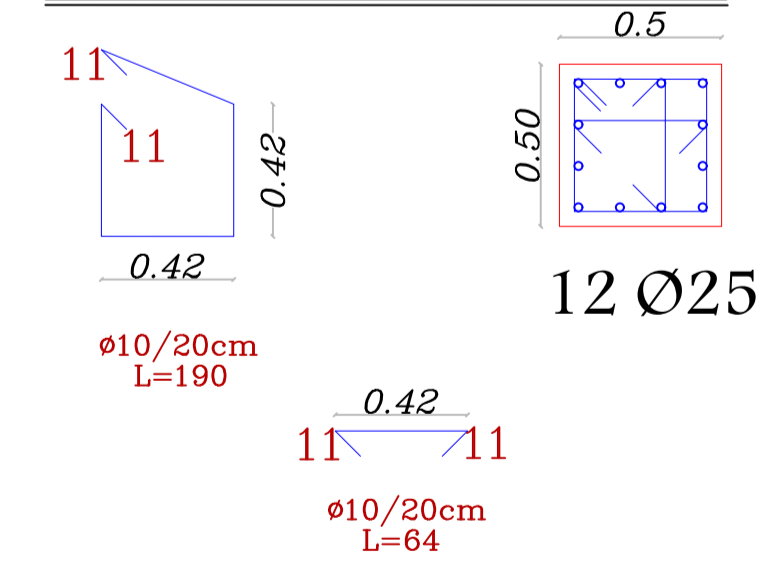
\*Typical shear Reinforcement **C4**



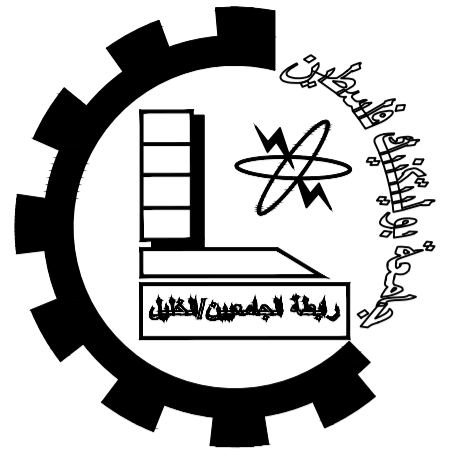
Section V-V



Section Z-Z



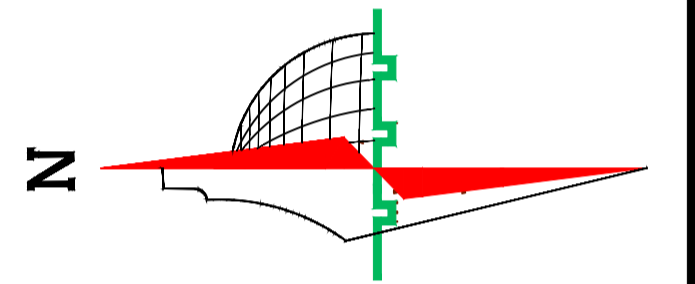
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IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

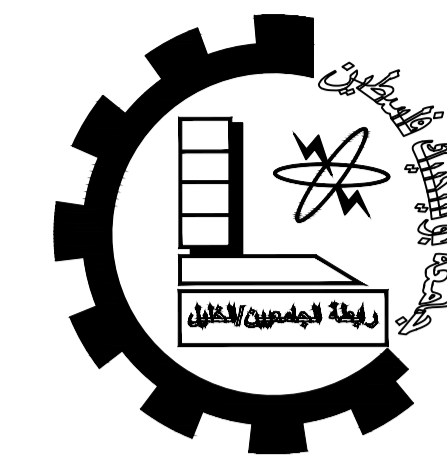
**COLUMN C3 & C4**

Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S28	21/1/2024

# COLUMN C1 & C2



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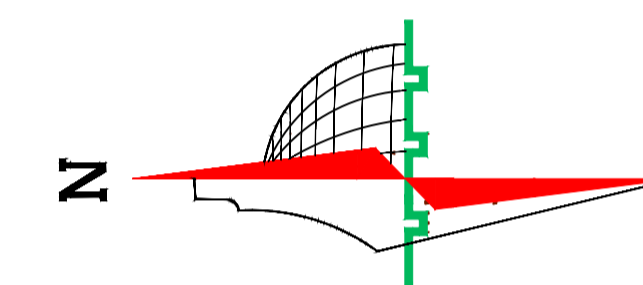
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Civil Engineering

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IVORY HOTEL & RESORT



### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

**COLUMN C1 & C2**

Supervisor

Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

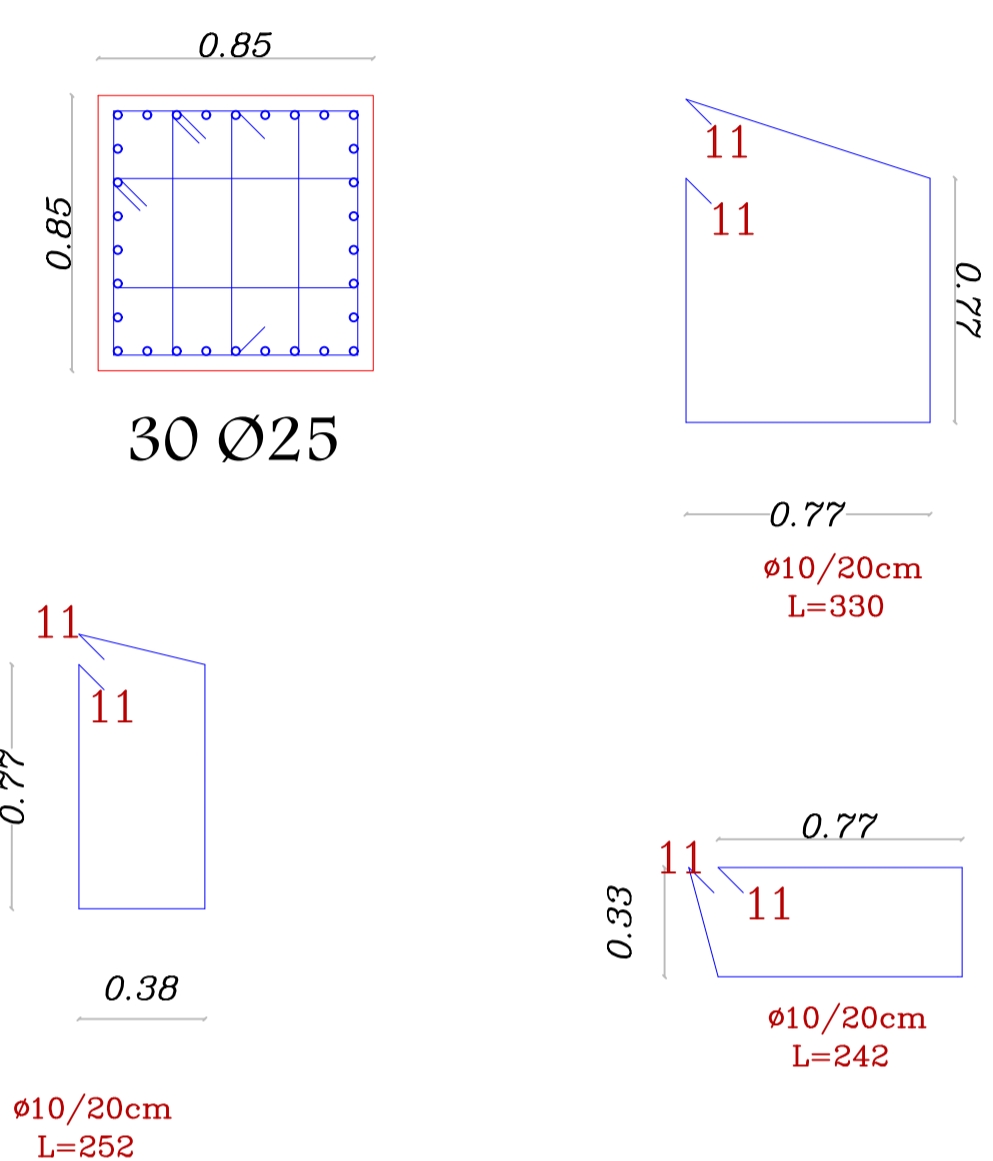
SCALE No. of DATE

1/250 S29 21/1/2024

\*Typical shear Reinforcement

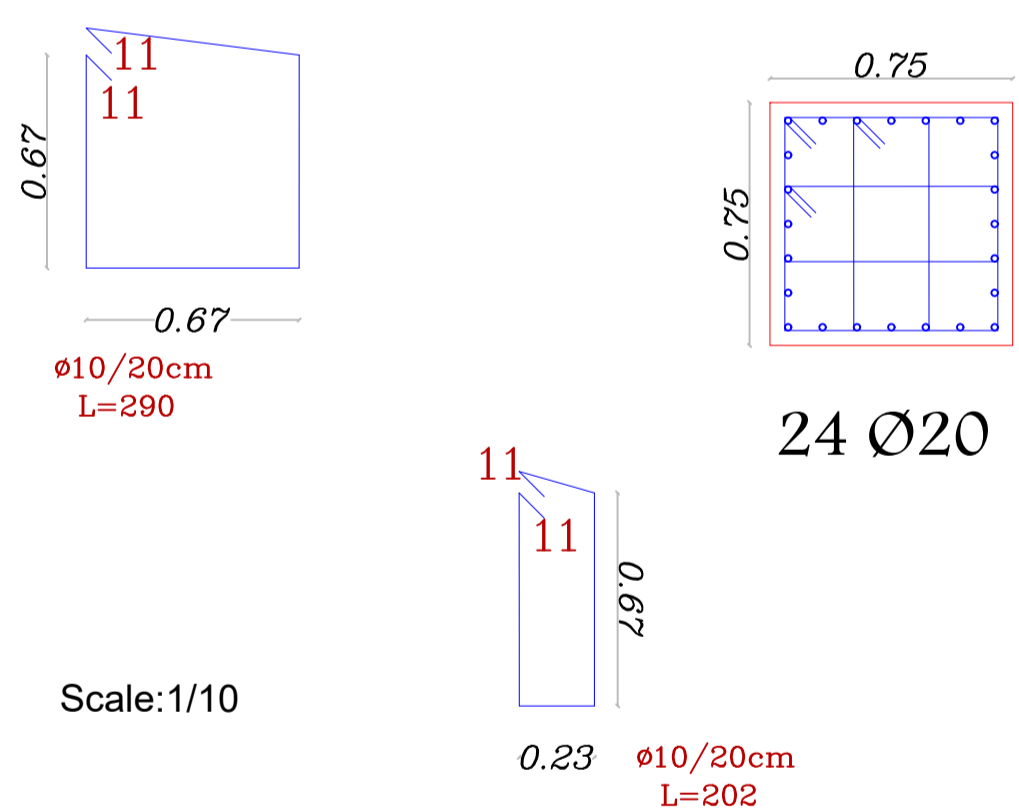
**C2**

### Section S-S



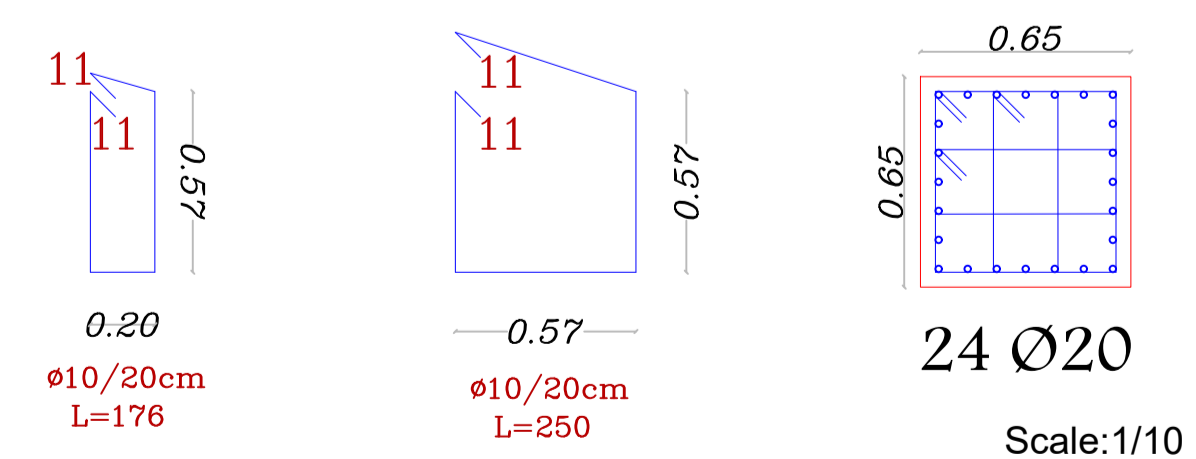
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### Section V-V



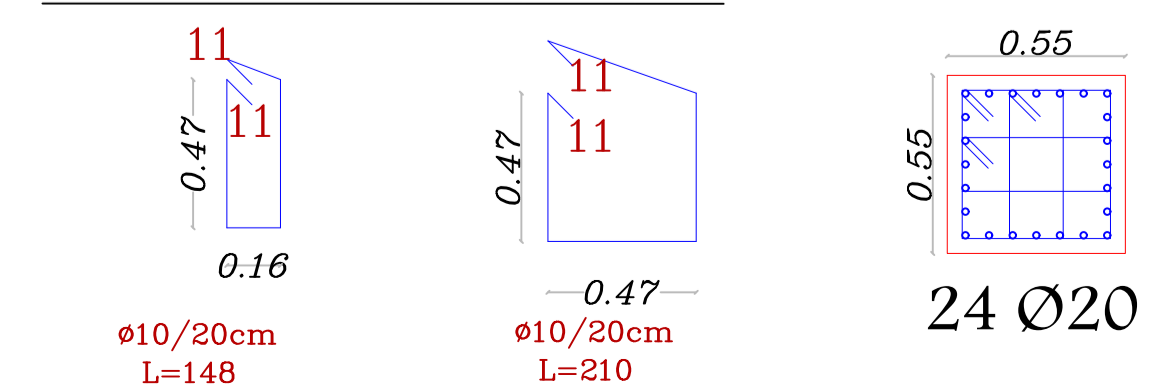
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### Section Z-Z



Scale:1/10

### Section N-N

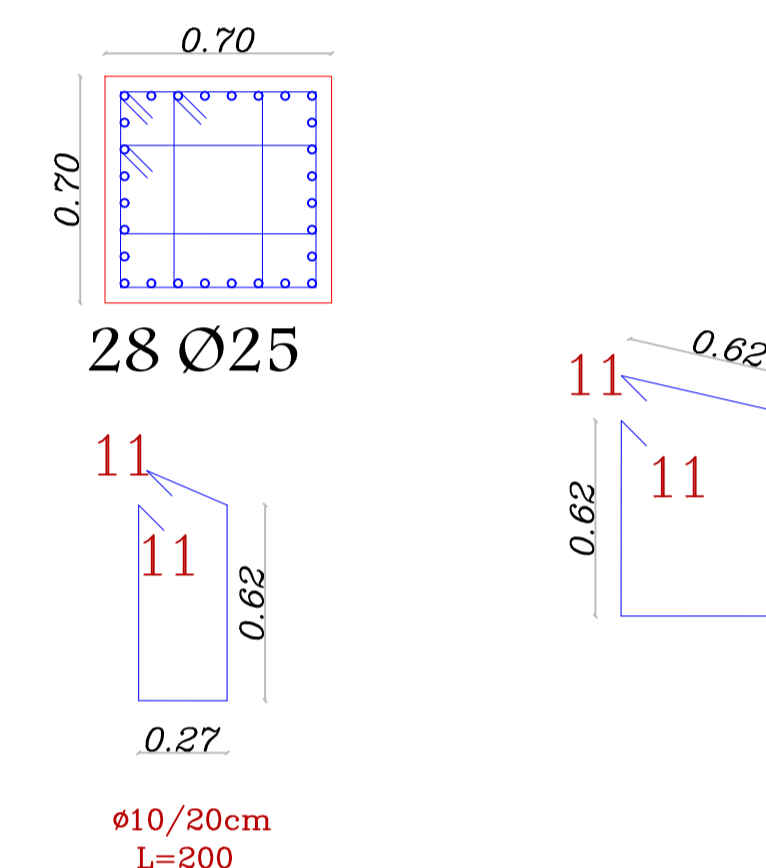


Scale:1/10

\*Typical shear Reinforcement

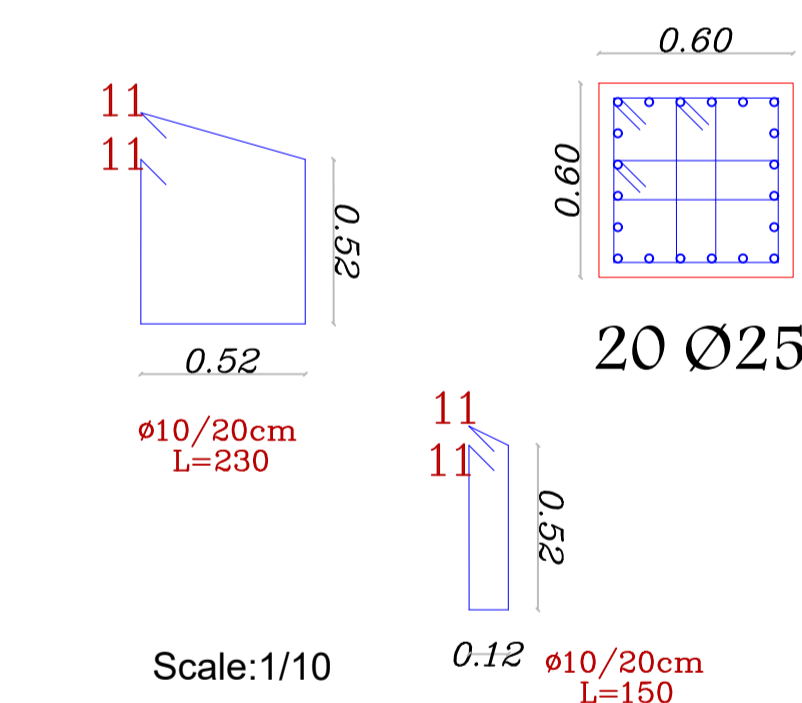
**C1**

### Section S-S



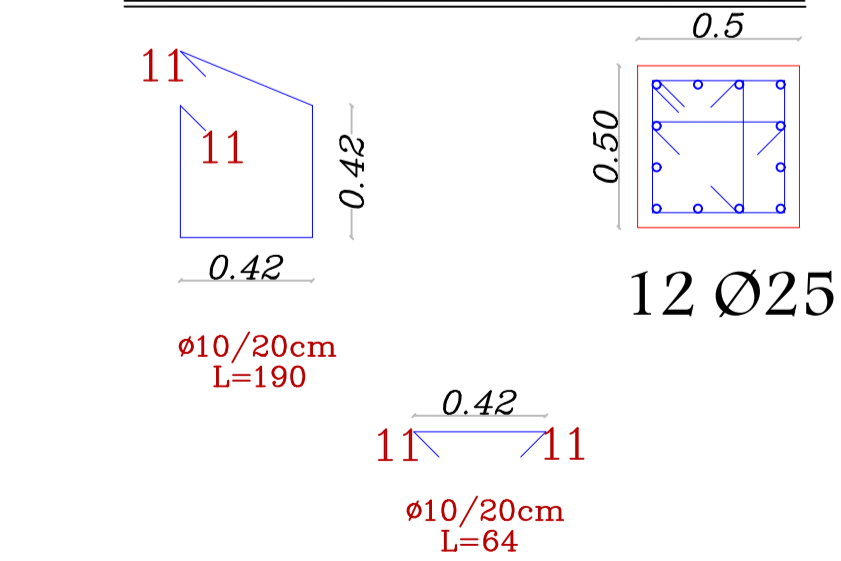
Scale:1/10

### Section V-V

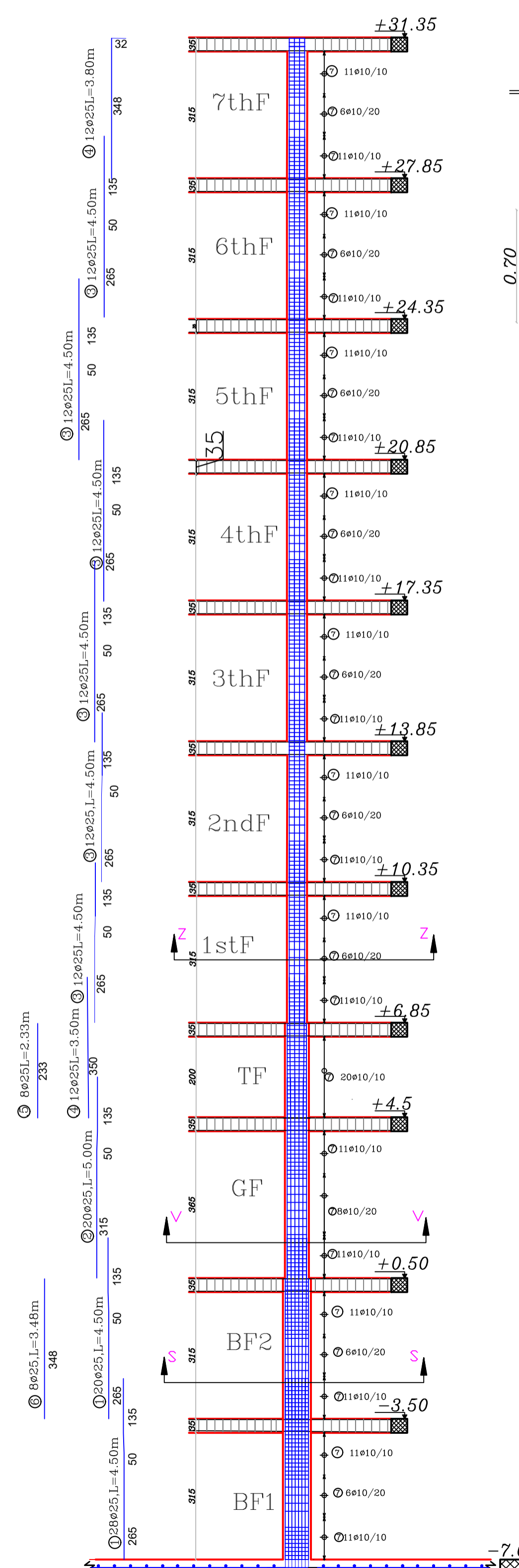
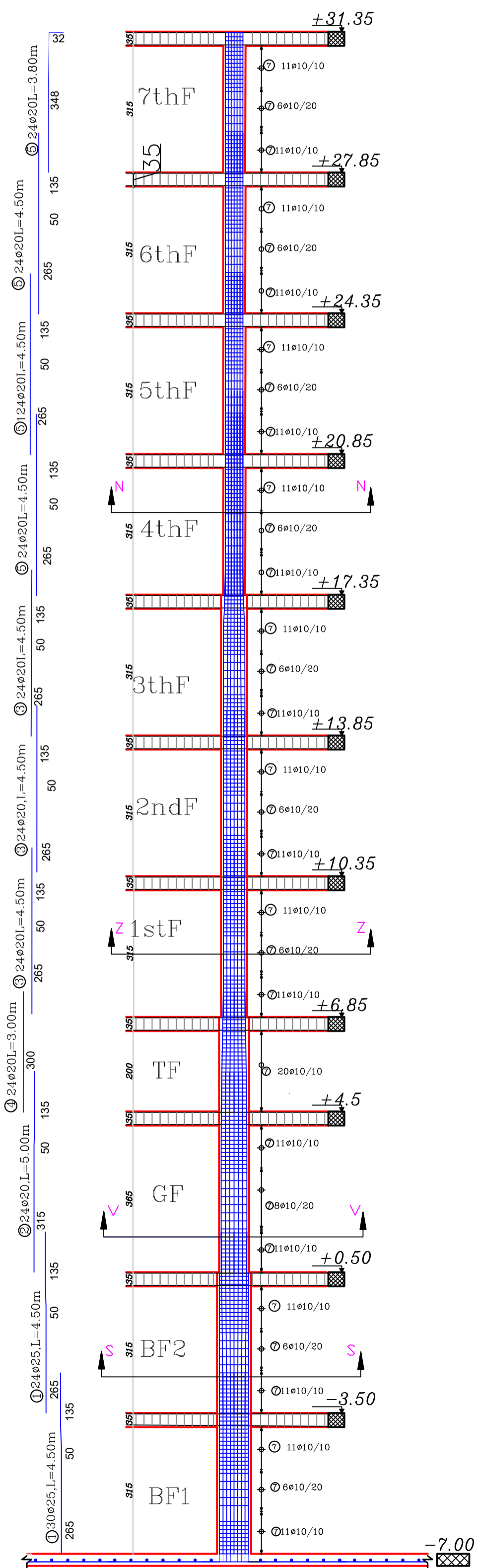


Scale:1/10

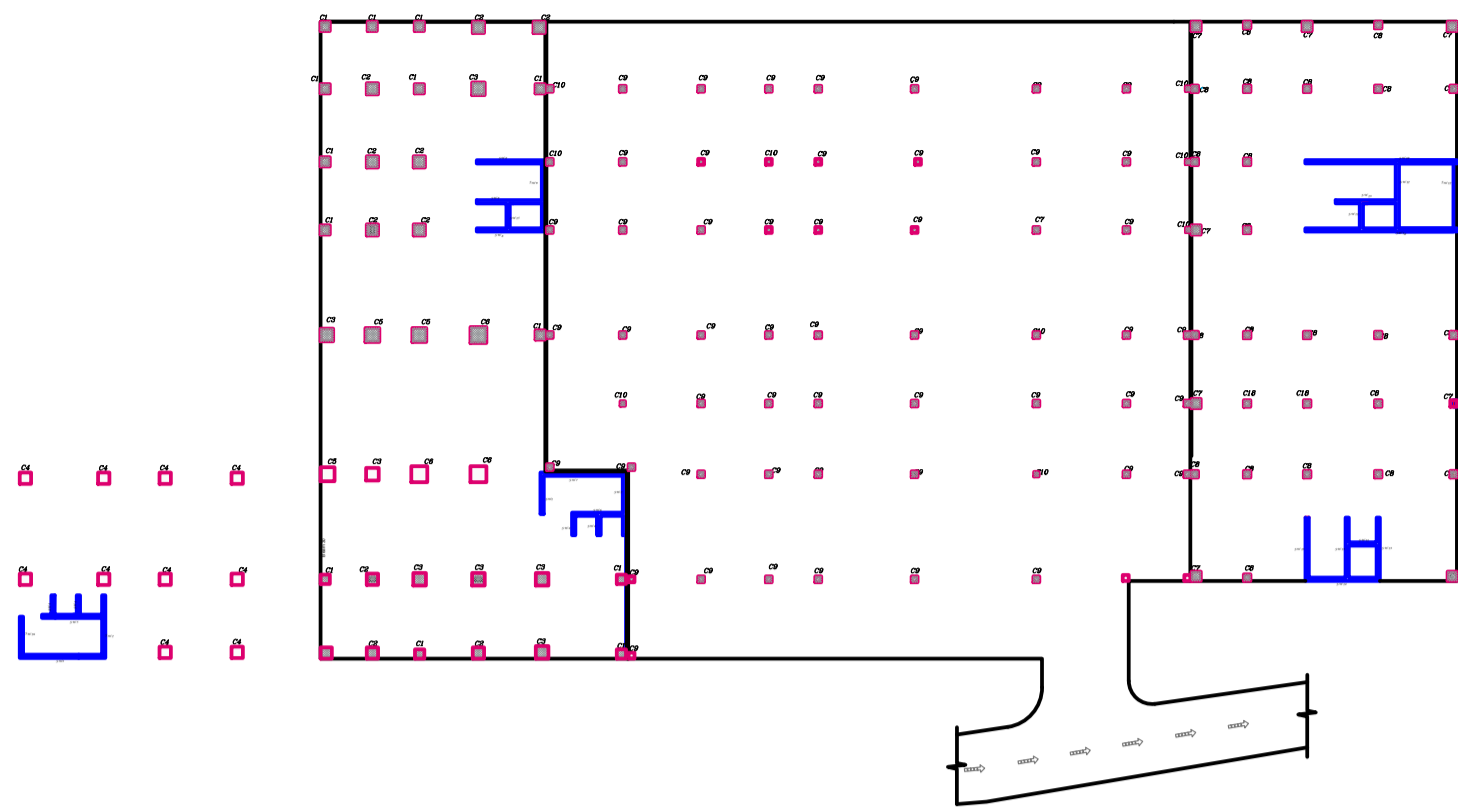
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Scale:1/10

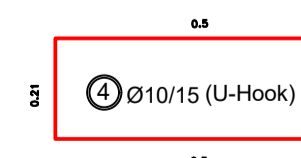
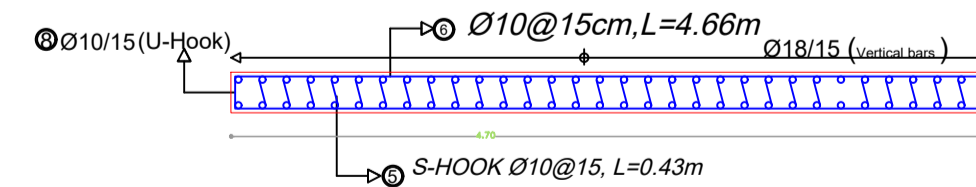
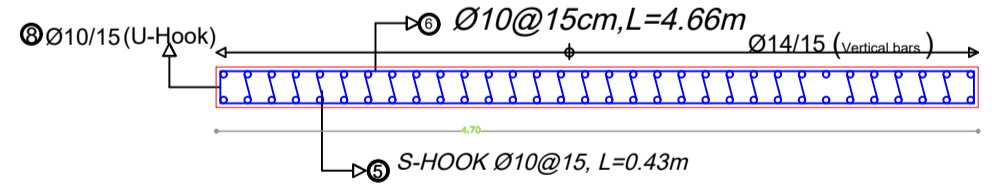
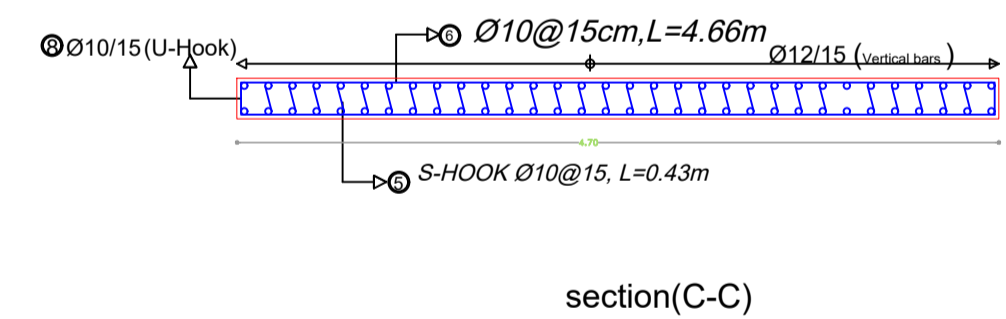
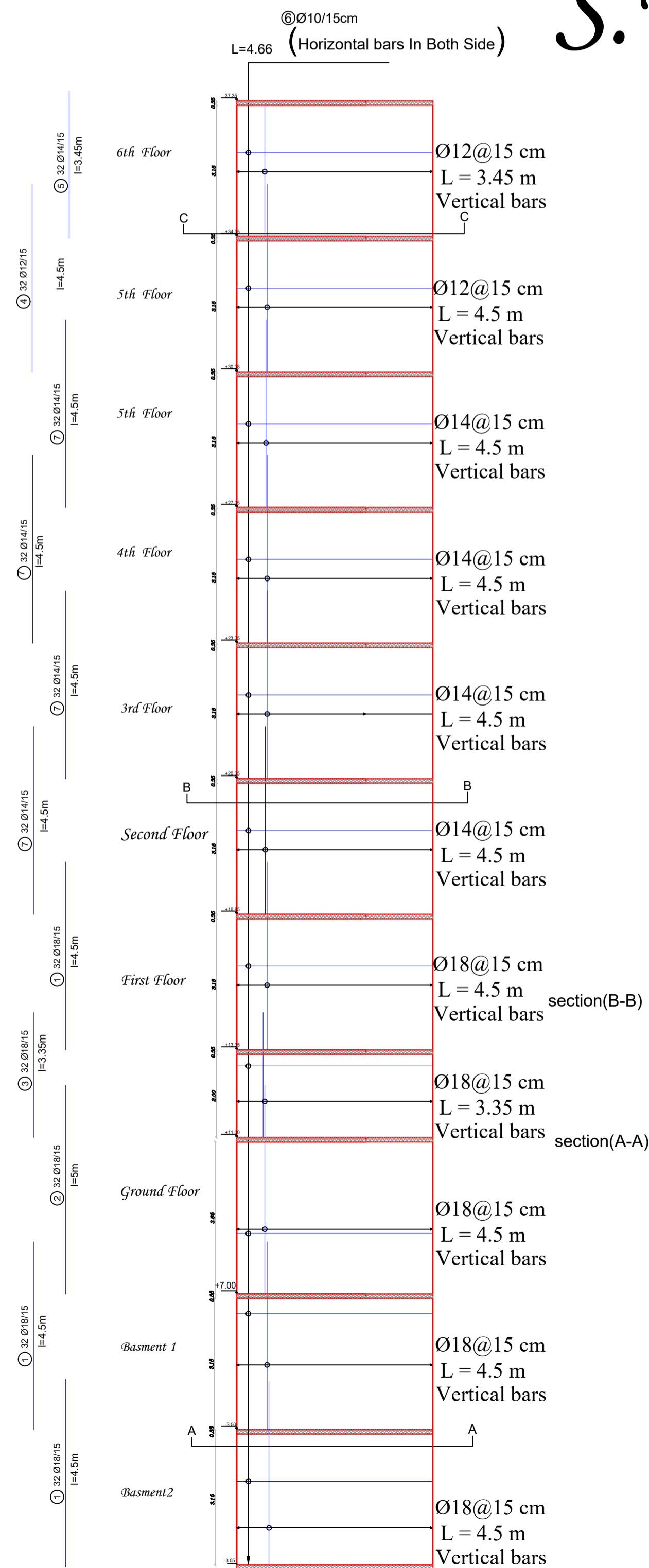


Shear Wall Key Plan  
SCALE 1:200



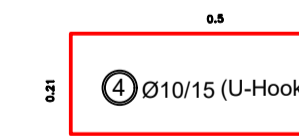
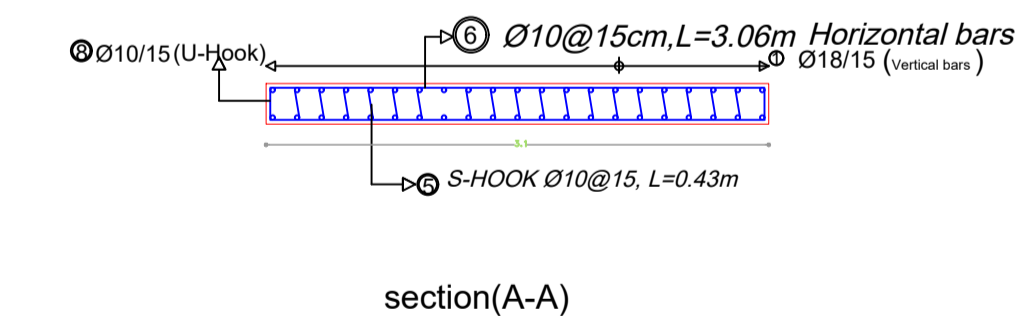
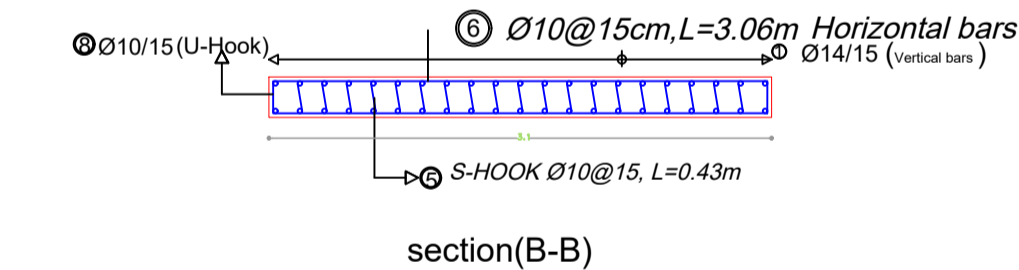
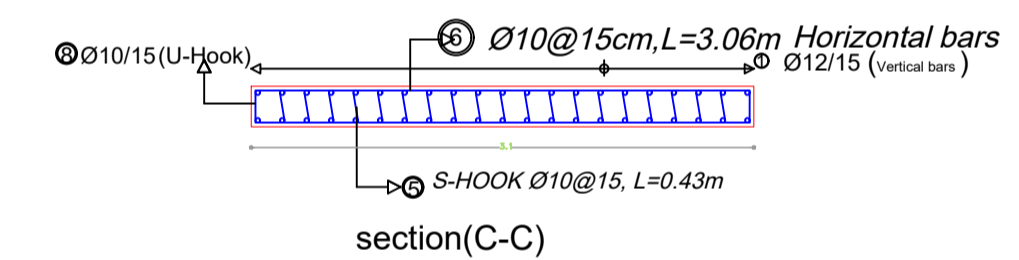
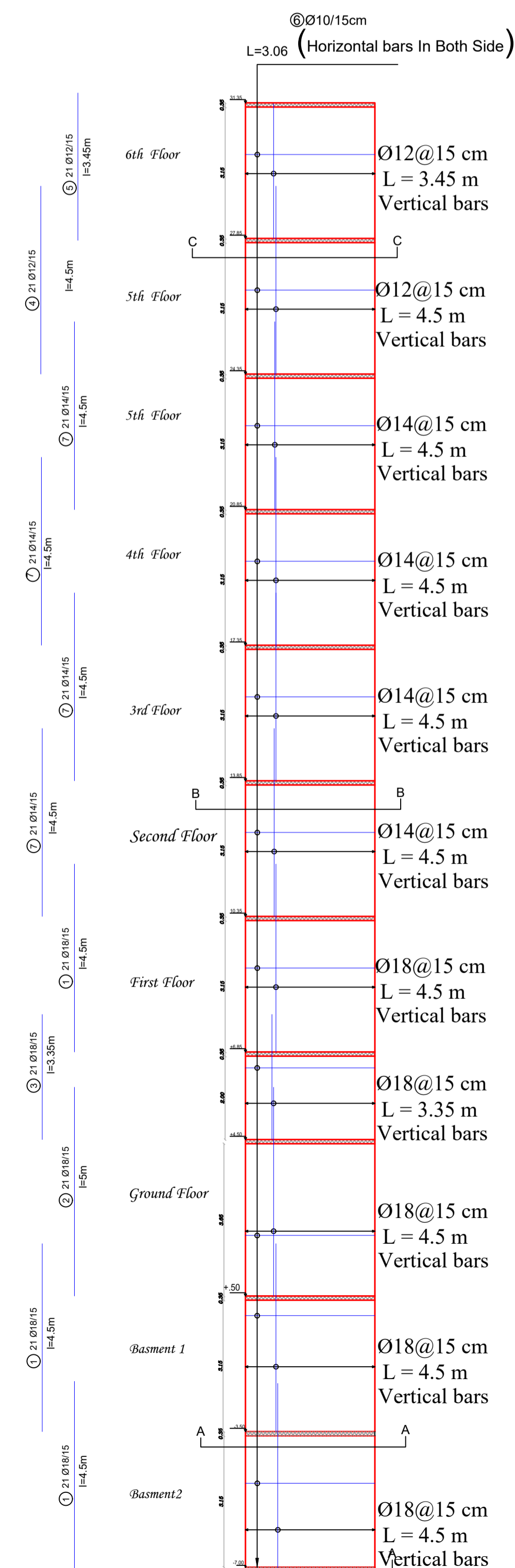
# Shear walls ( 1 & 2)

## S.W 2

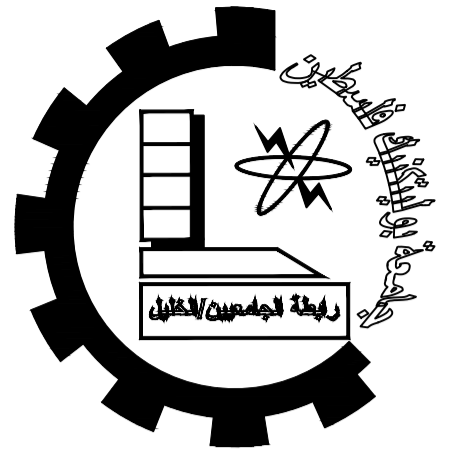


SCALE  
1:25

## S.W 1



SCALE  
1:50



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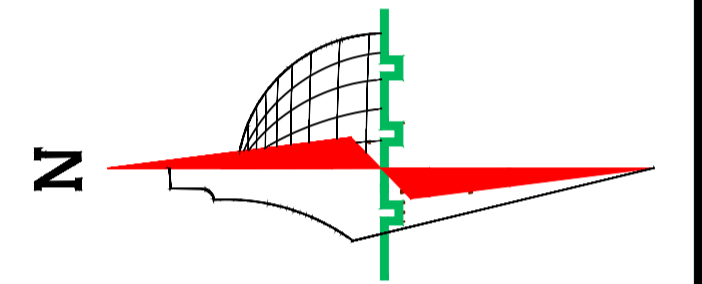
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Civil Engineering

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IVORY HOTEL &  
RESORT



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

W1 & S.W2

Supervisor

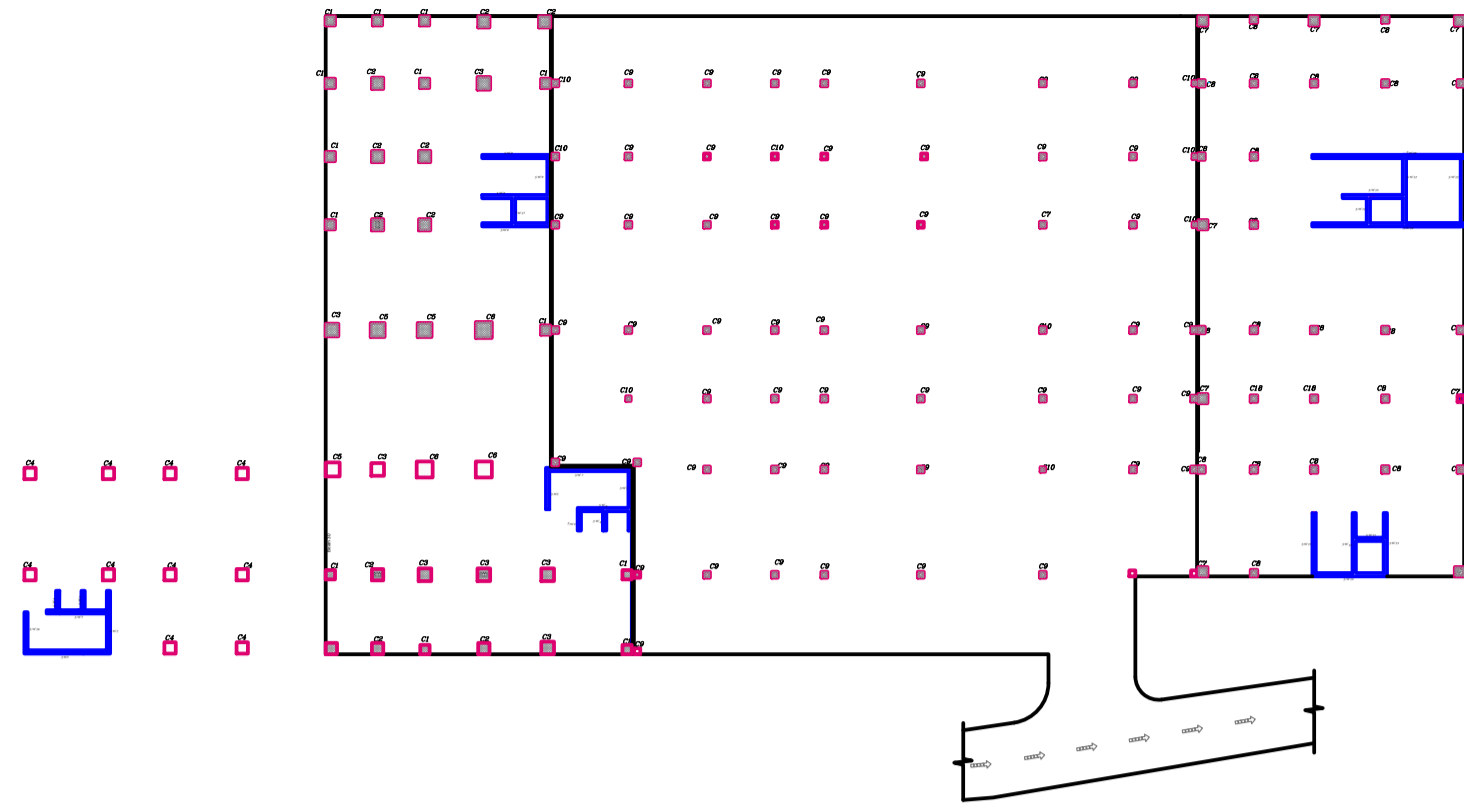
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

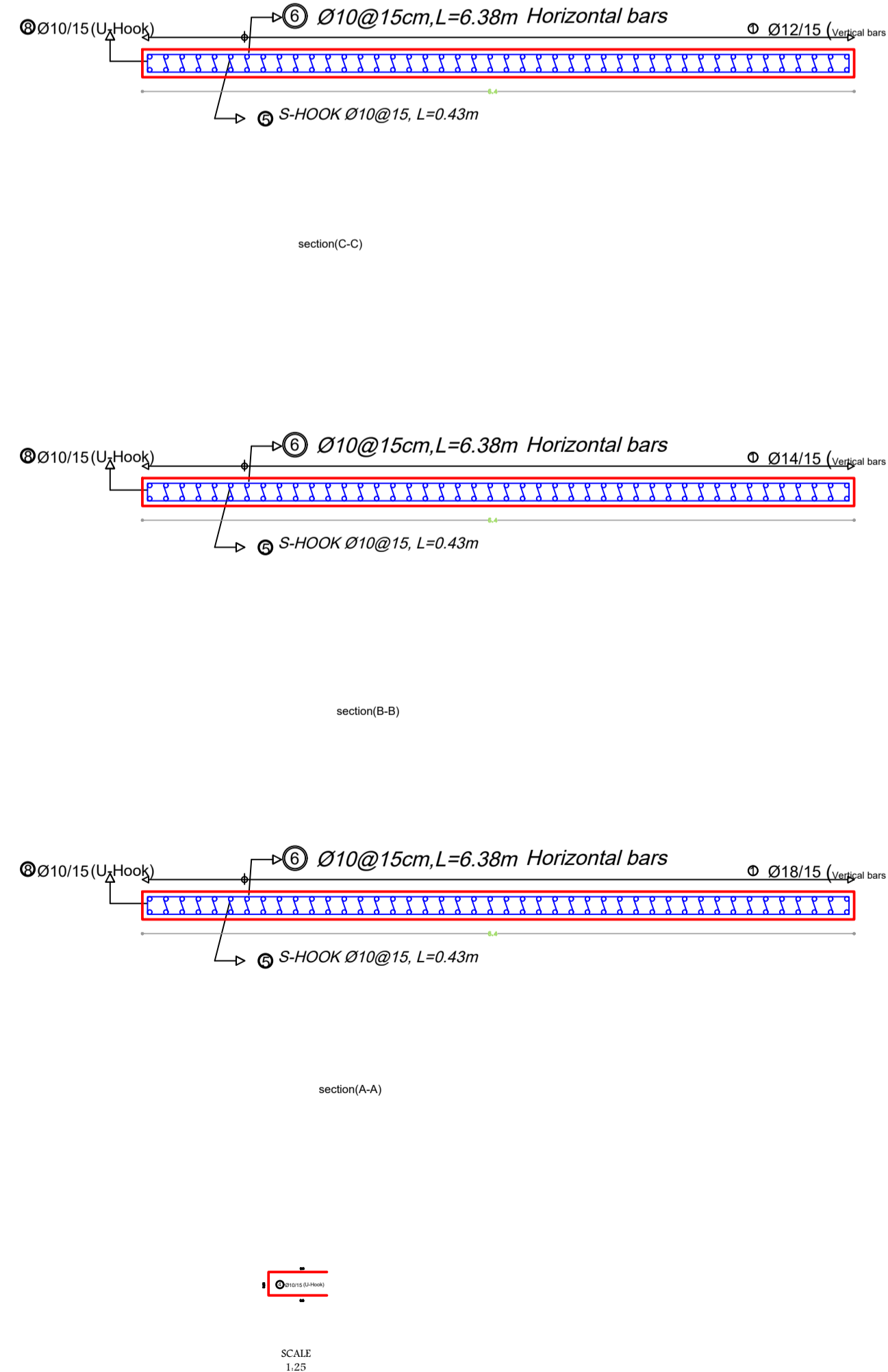
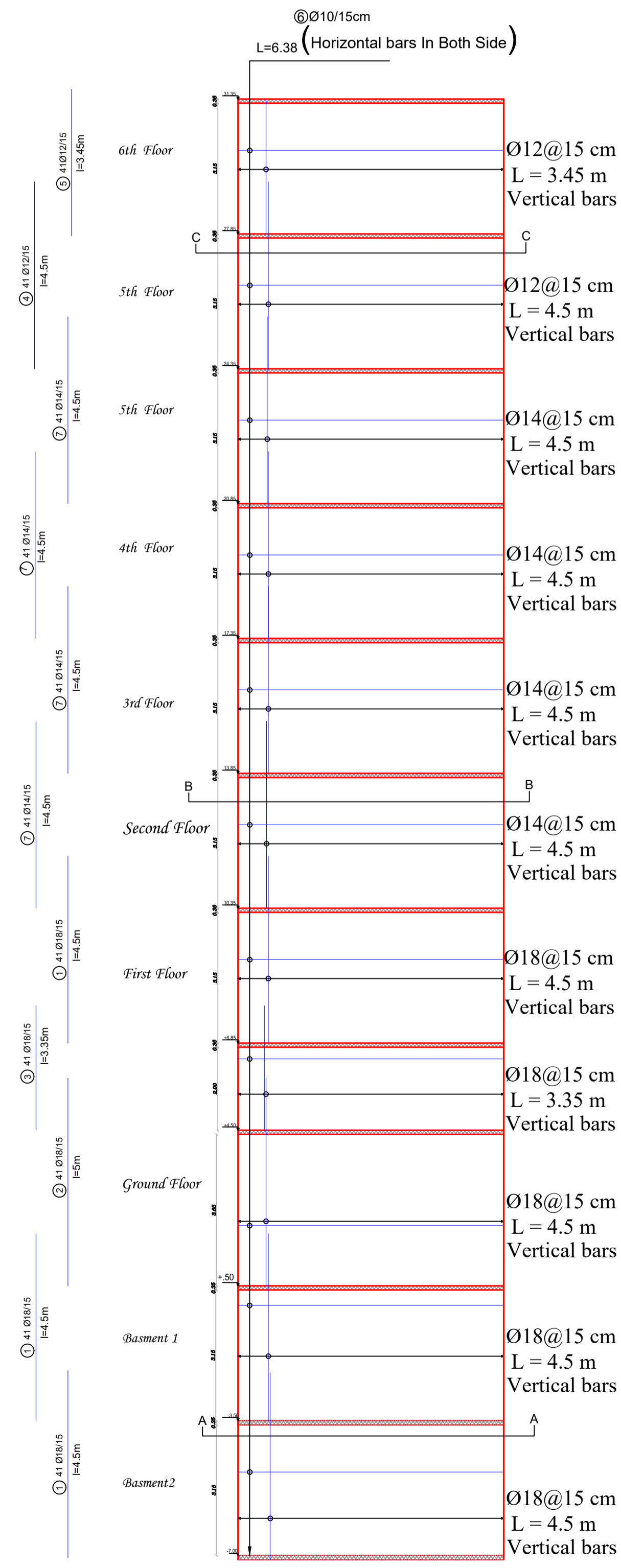
SCALE	No. of DRAW	DATE
1/250	S37	21/1/2024

Shear Wall Key Plan  
SCALE 1:200

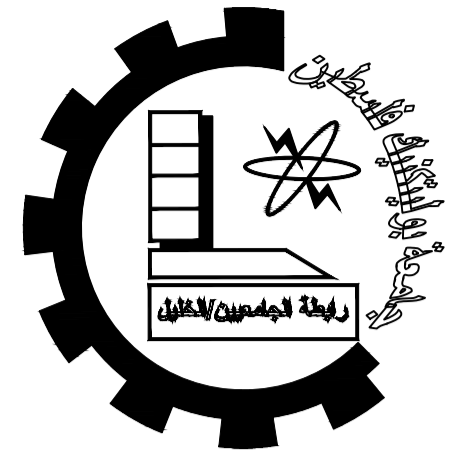
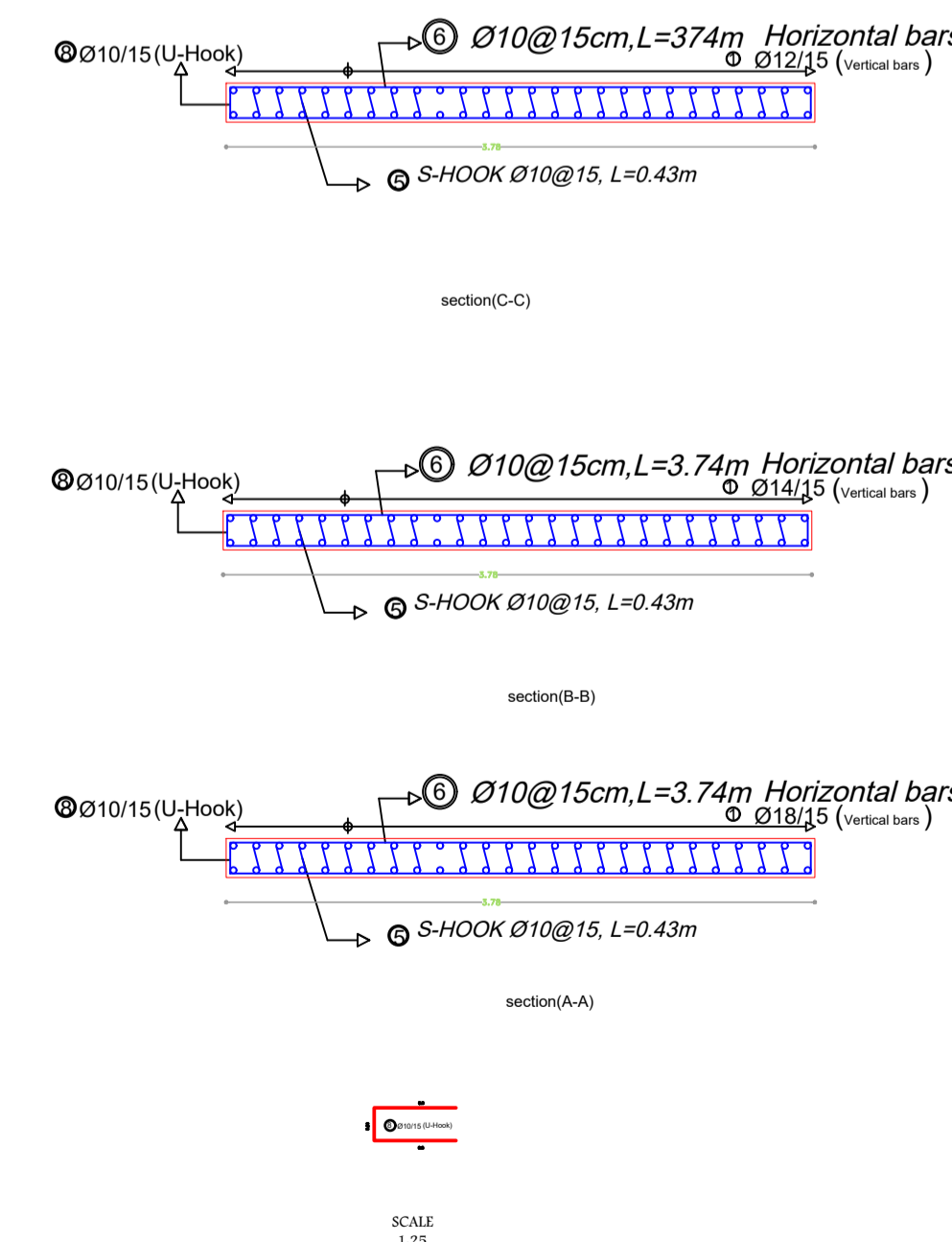
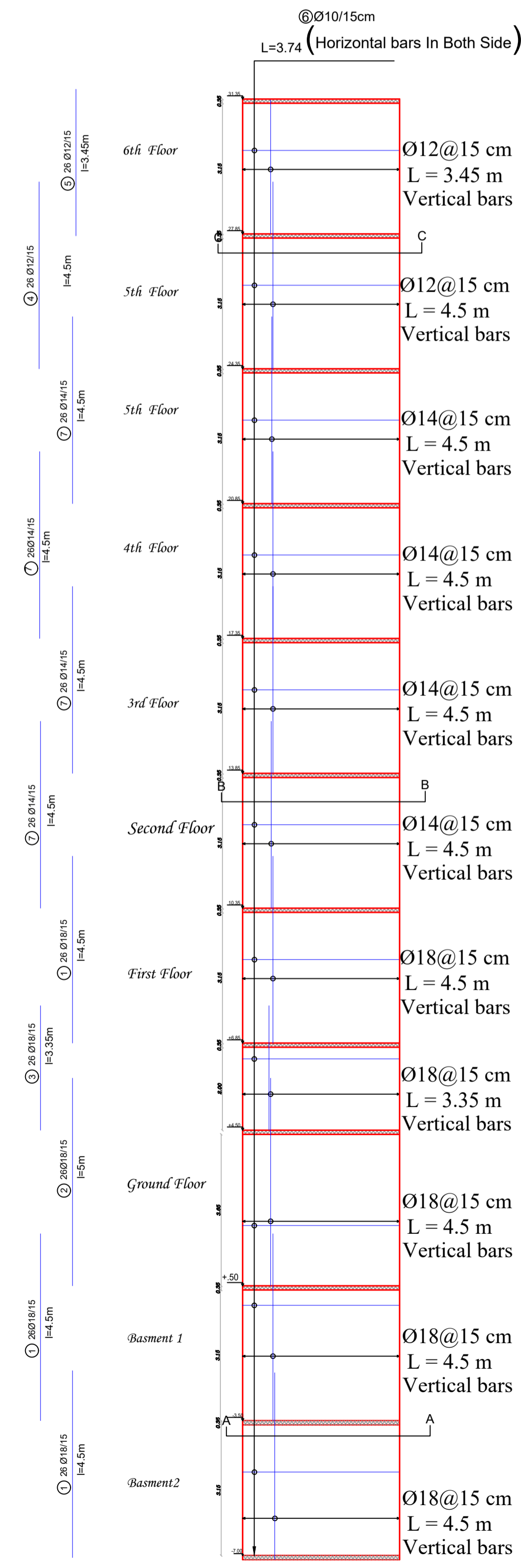


# Shear walls ( 3 & 6)

## S.W 3



## S.W 6



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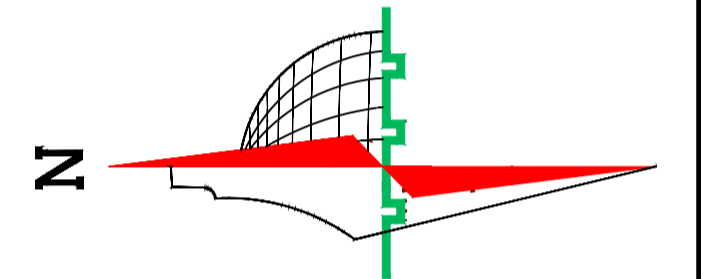
College of Engineering

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Civil Engineering

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IVORY  
HOTEL &  
RESORT



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

SW3& S .W6

Supervisor

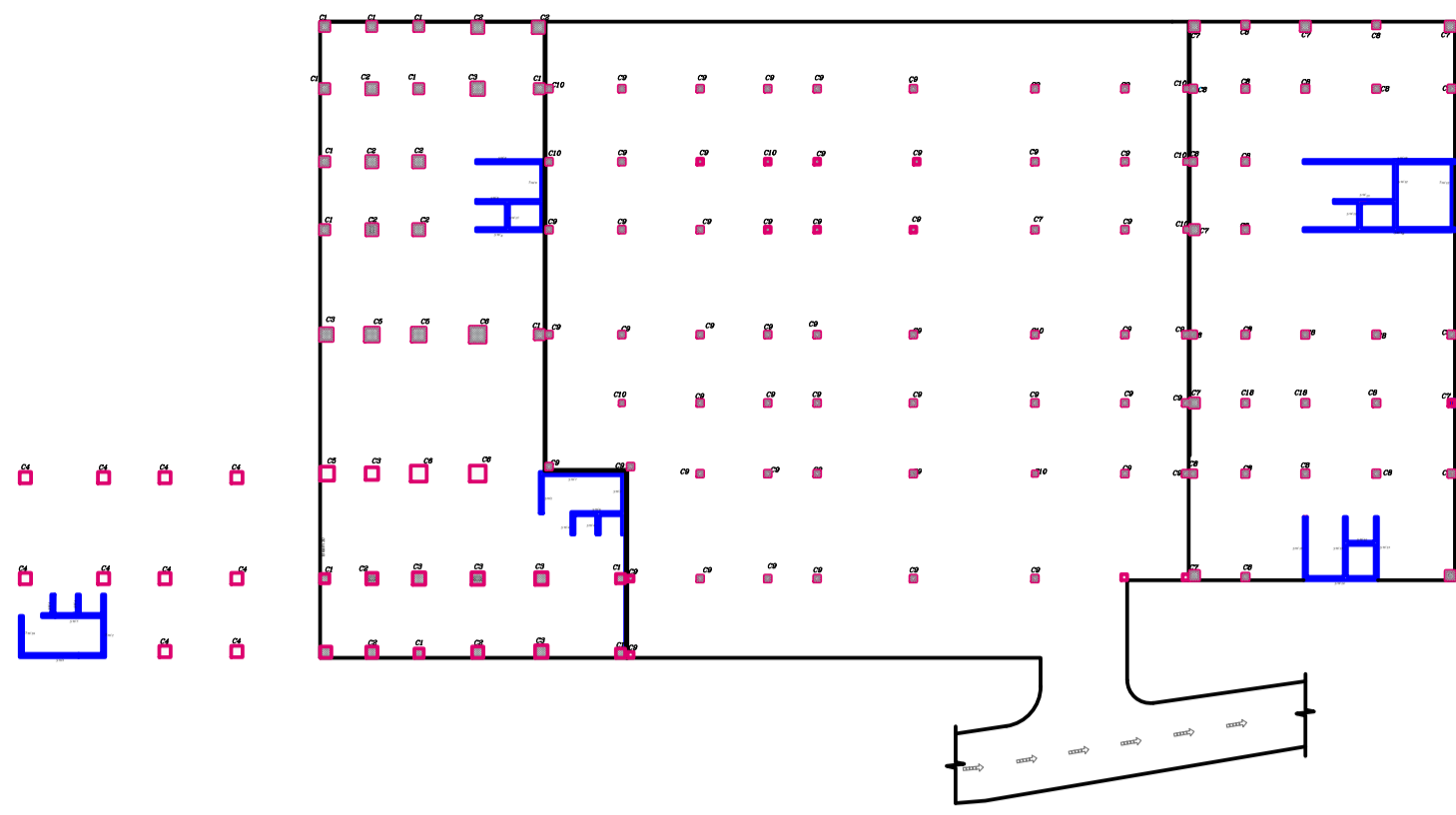
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

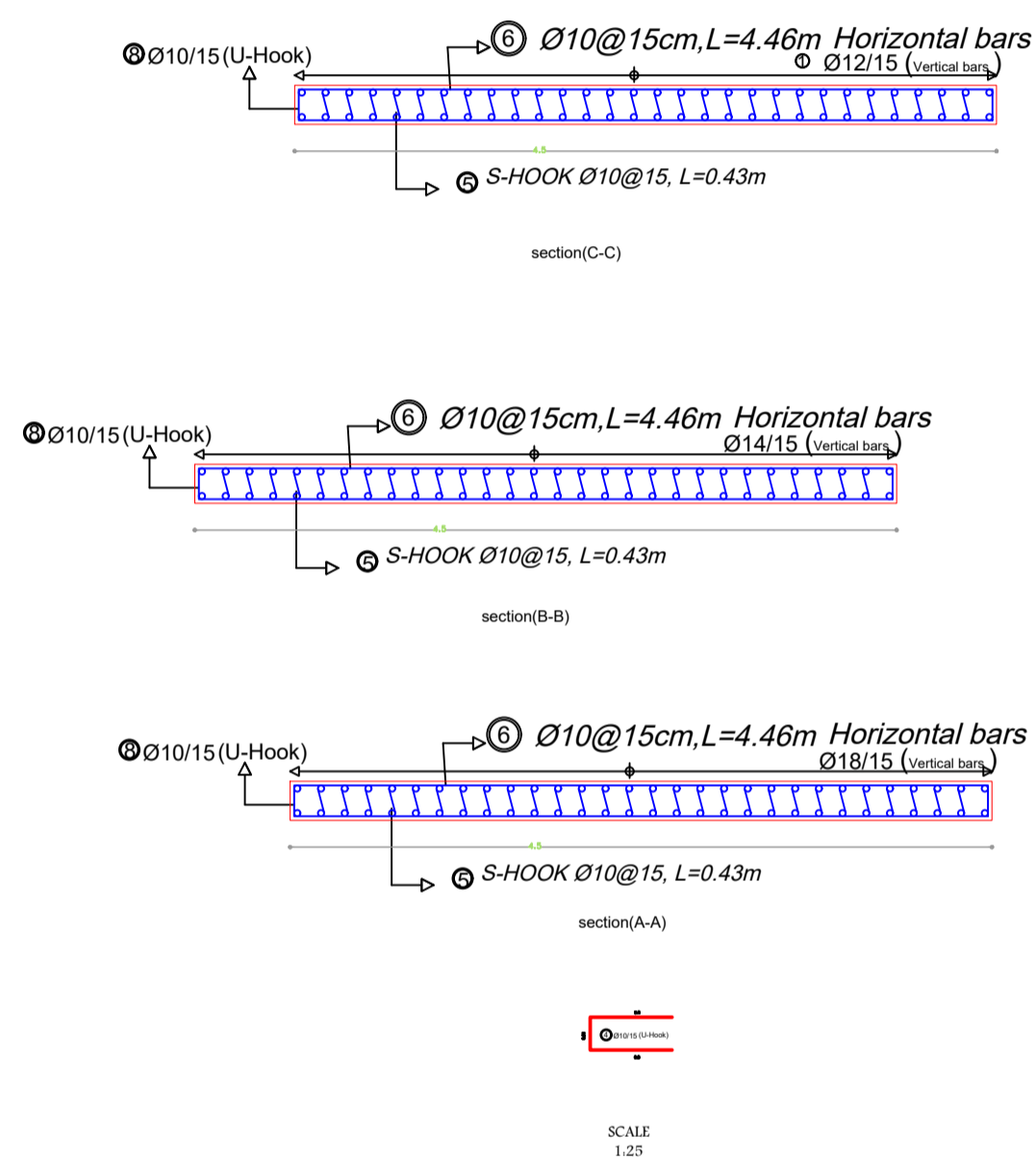
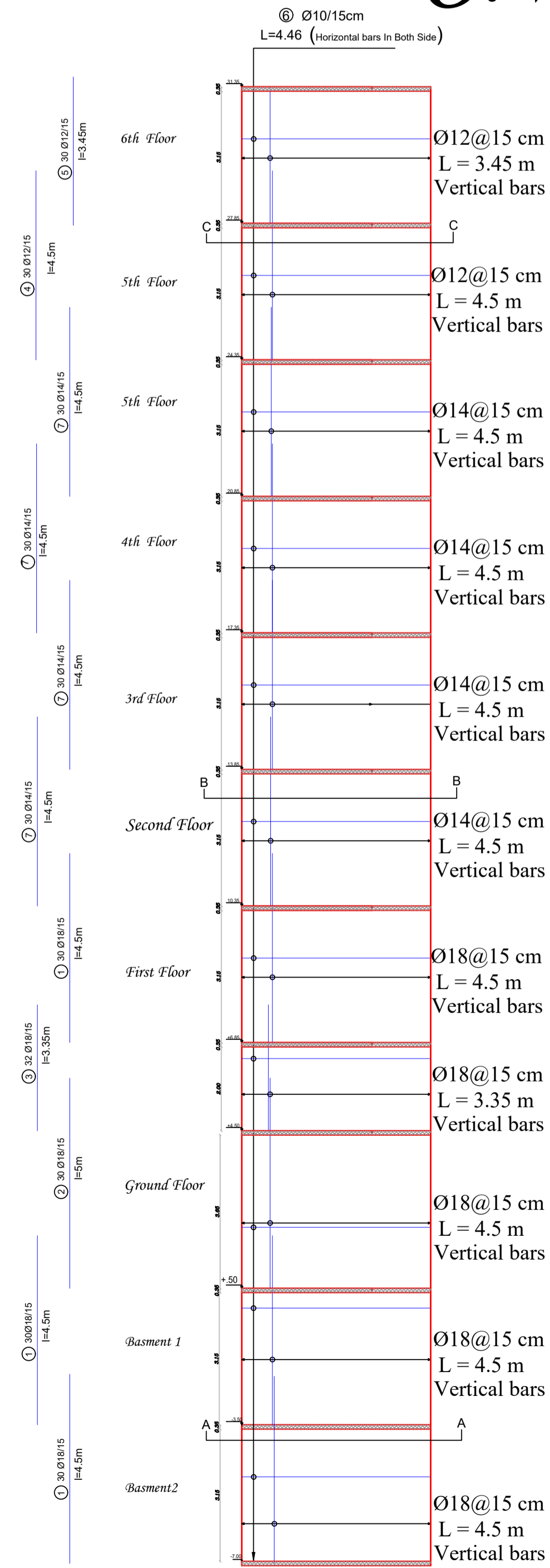
SCALE	No. of DRAW	DATE
1/250	S38	21/1/2024

Shear Wall Key Plan  
SCALE 1:200

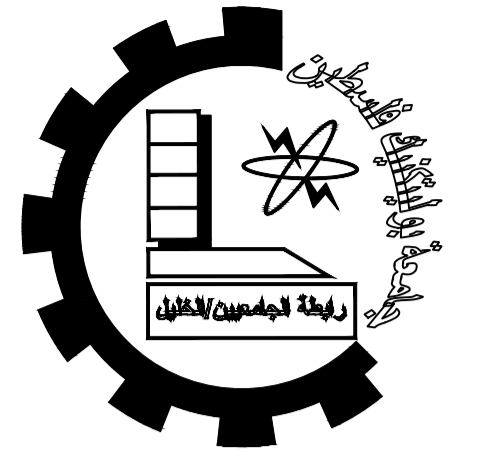
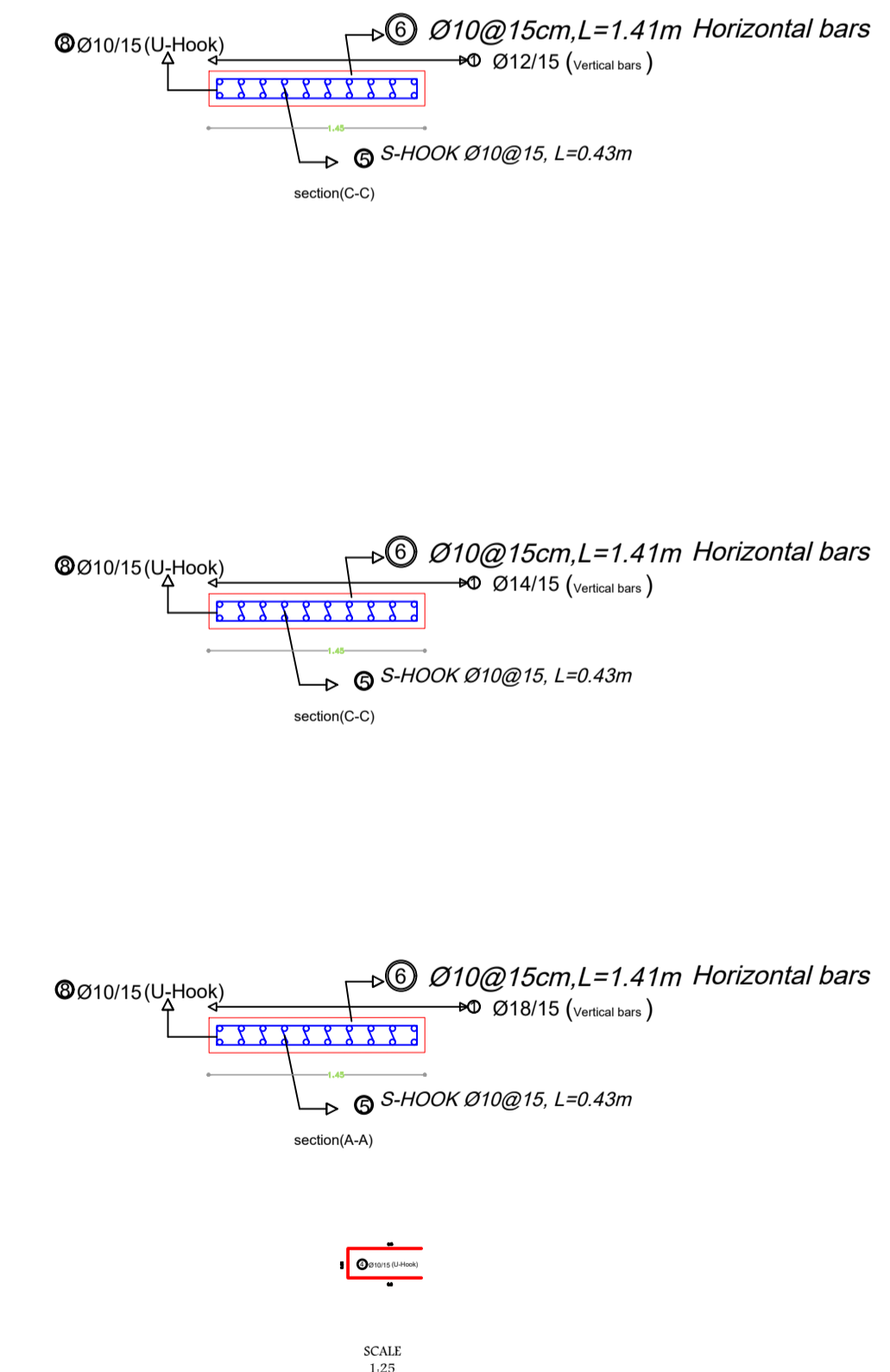
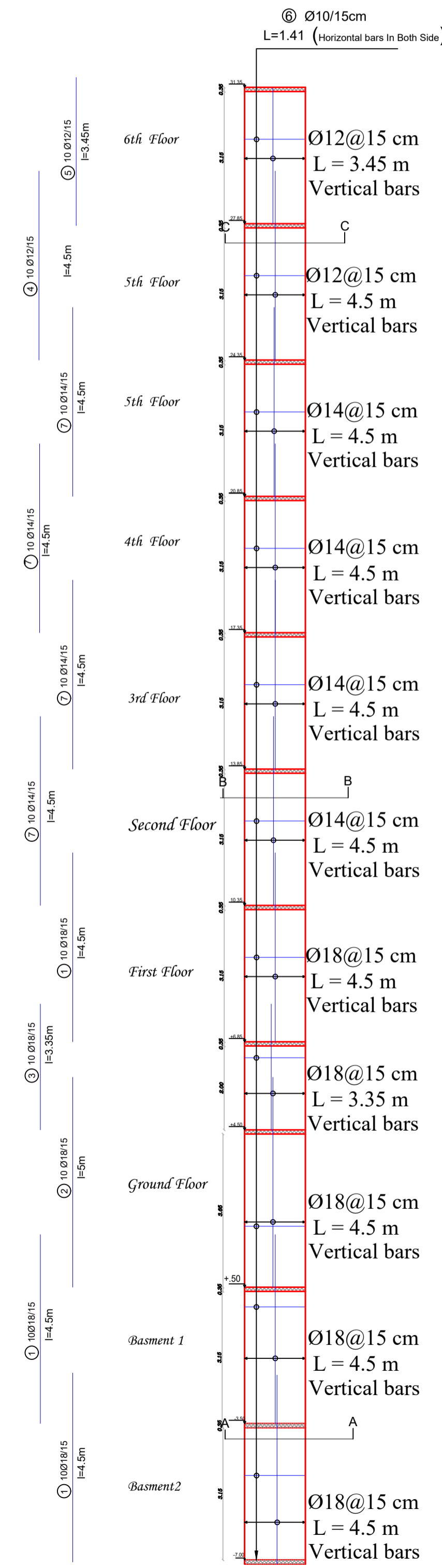


## Shear walls ( 4 & 5)

### S.W5



### S.W4



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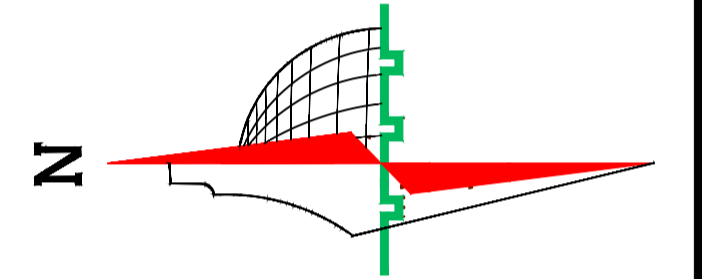
College of Engineering

Civil Engineering Department

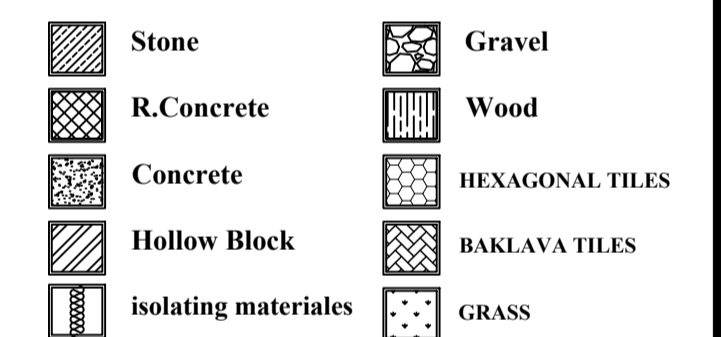
Civil Engineering

Graduation Project

IVORY  
HOTEL &  
RESORT



#### Legend :



DRAWING TITLE :

W5& S.W4

Supervisor

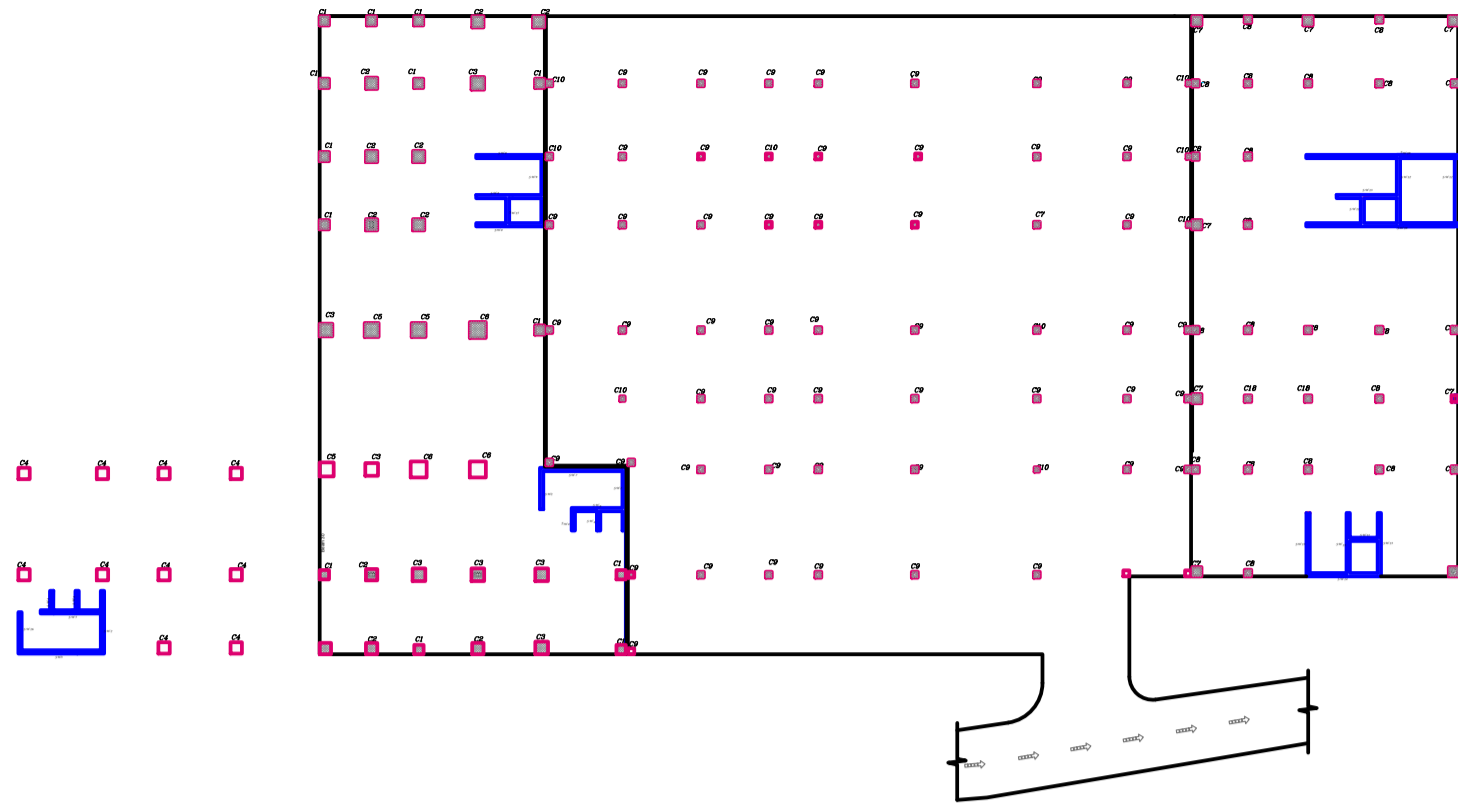
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S39	21/1/2024

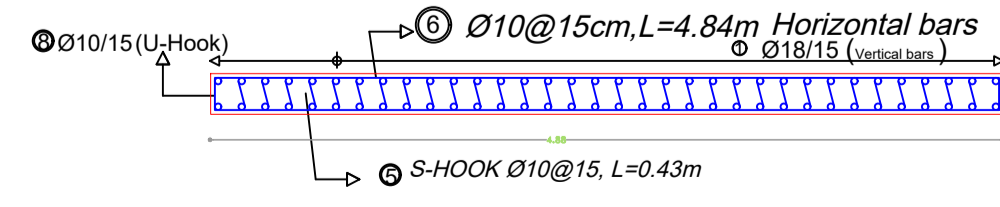
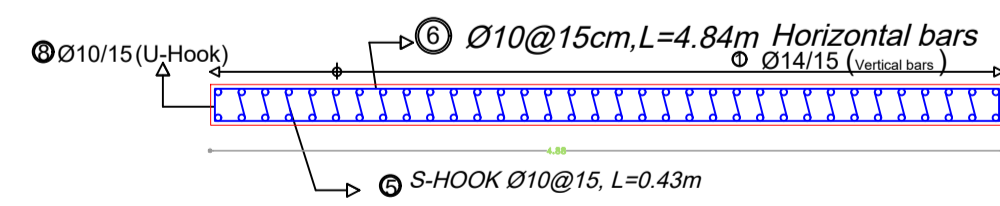
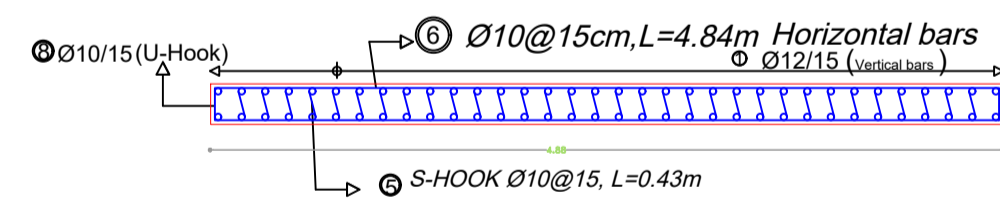
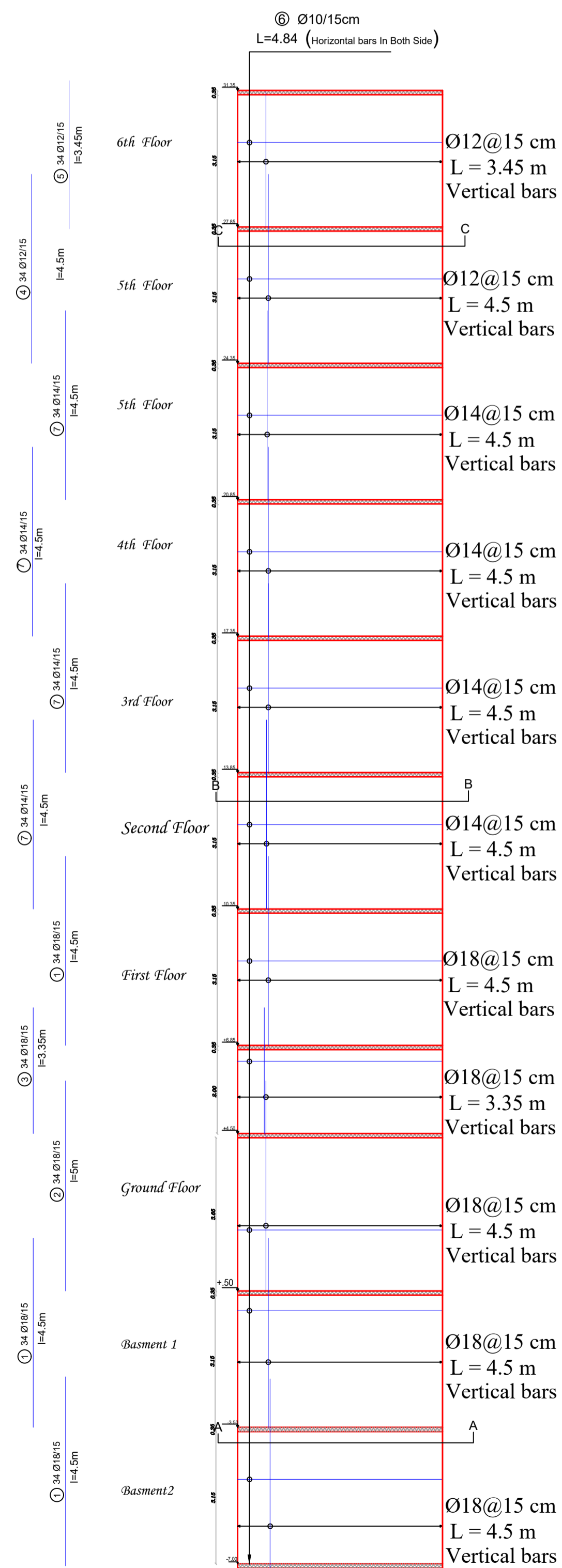
Shear Wall Key Plan  
SCALE 1:200



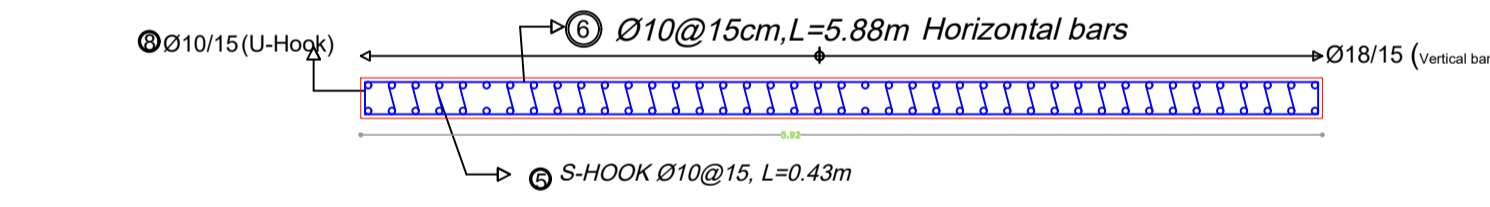
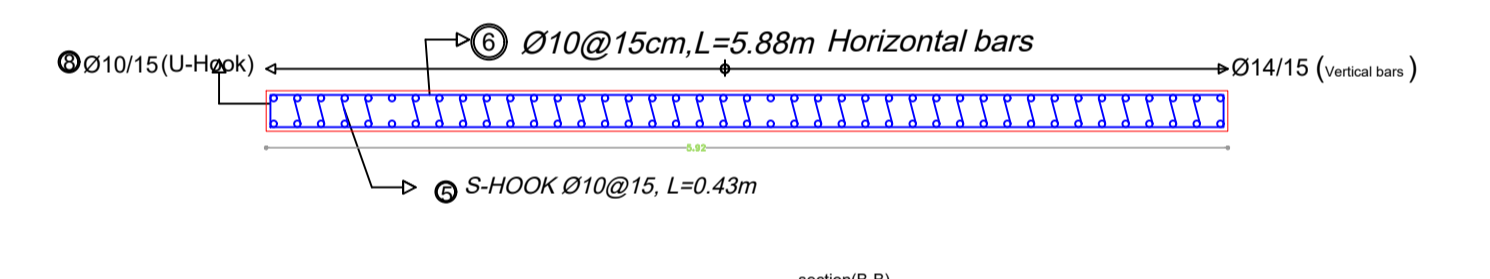
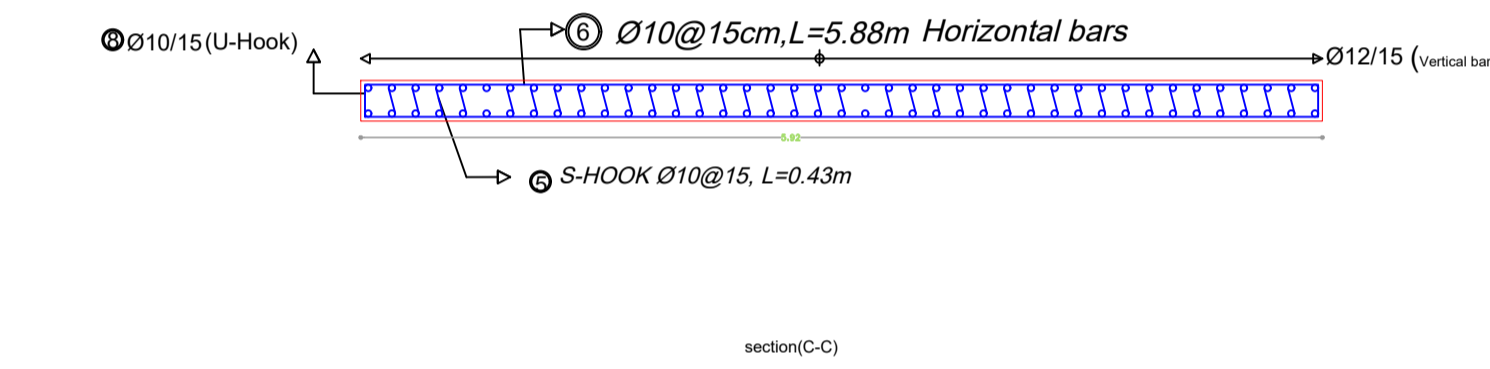
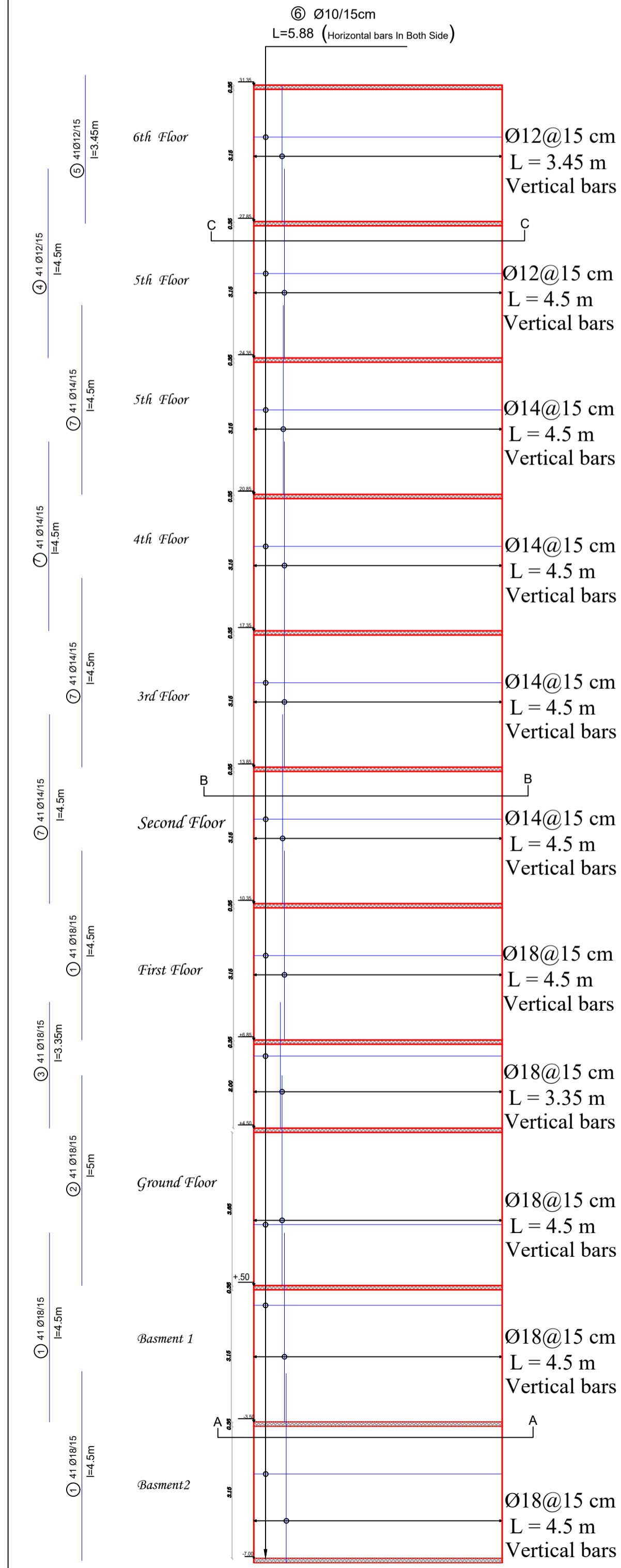
## Shear walls ( 8 & 7)

# S.W 7

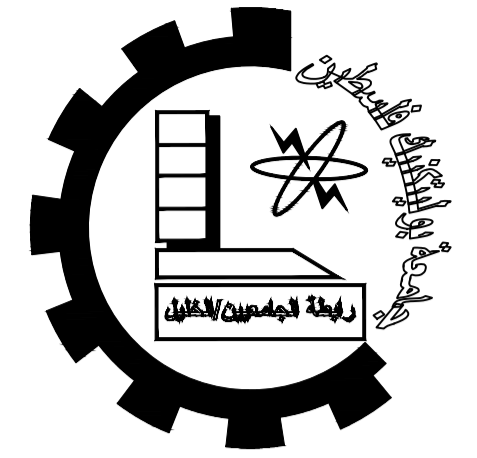
# S.W 8



SCALE 1:25



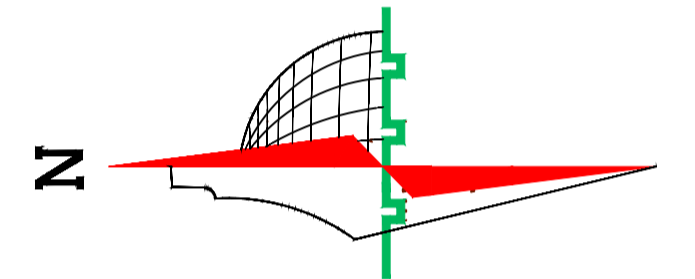
SCALE 1:25



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### Legend :

- |  |                     |  |                 |
|--|---------------------|--|-----------------|
|  | Stone               |  | Gravel          |
|  | R-Concrete          |  | Wood            |
|  | Concrete            |  | HEXAGONAL TILES |
|  | Hollow Block        |  | BAKLAVA TILES   |
|  | isolating materials |  | GRASS           |

DRAWING TITLE :

SW7& S.W8

Supervisor

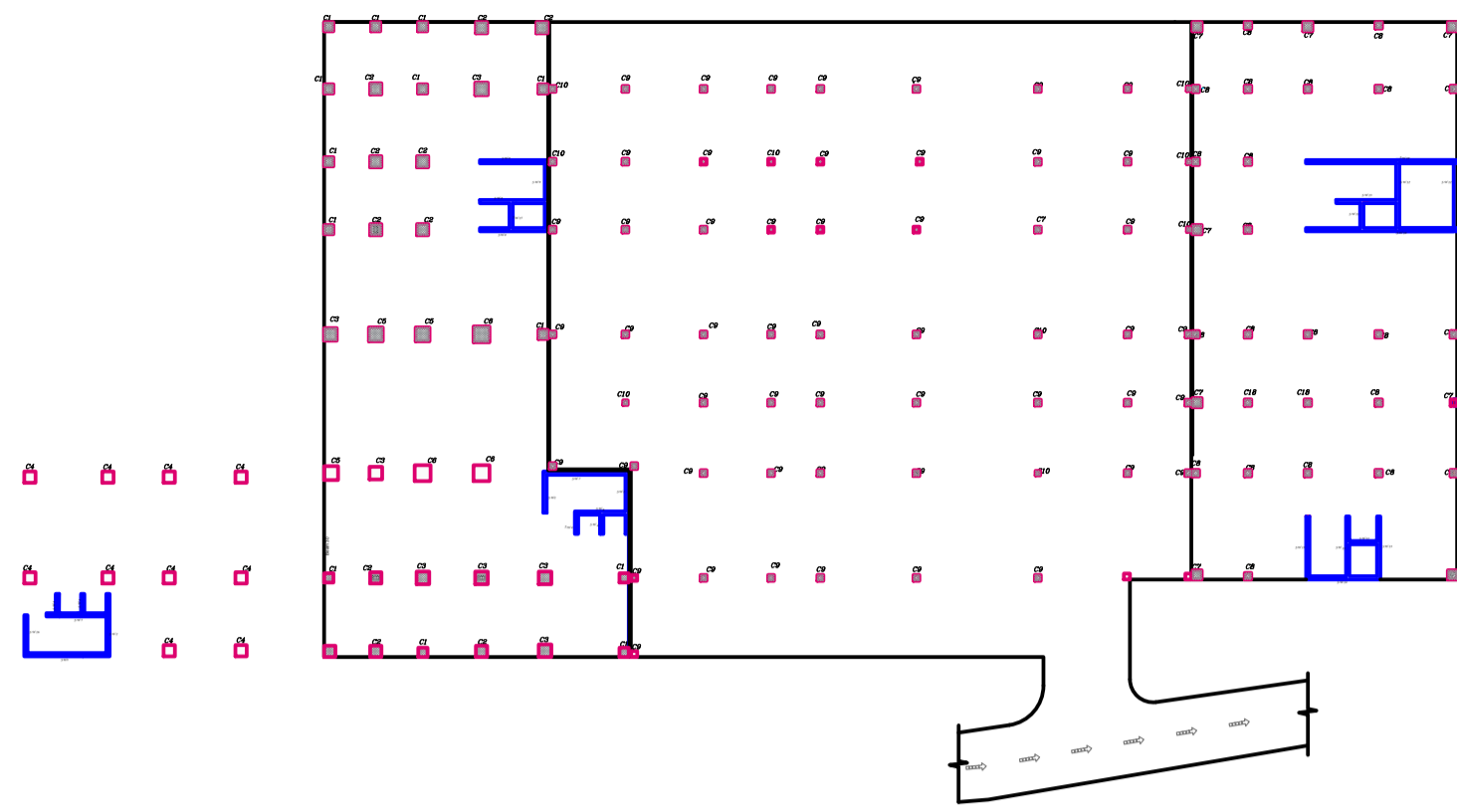
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

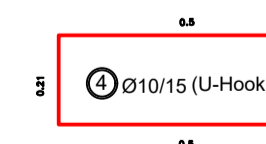
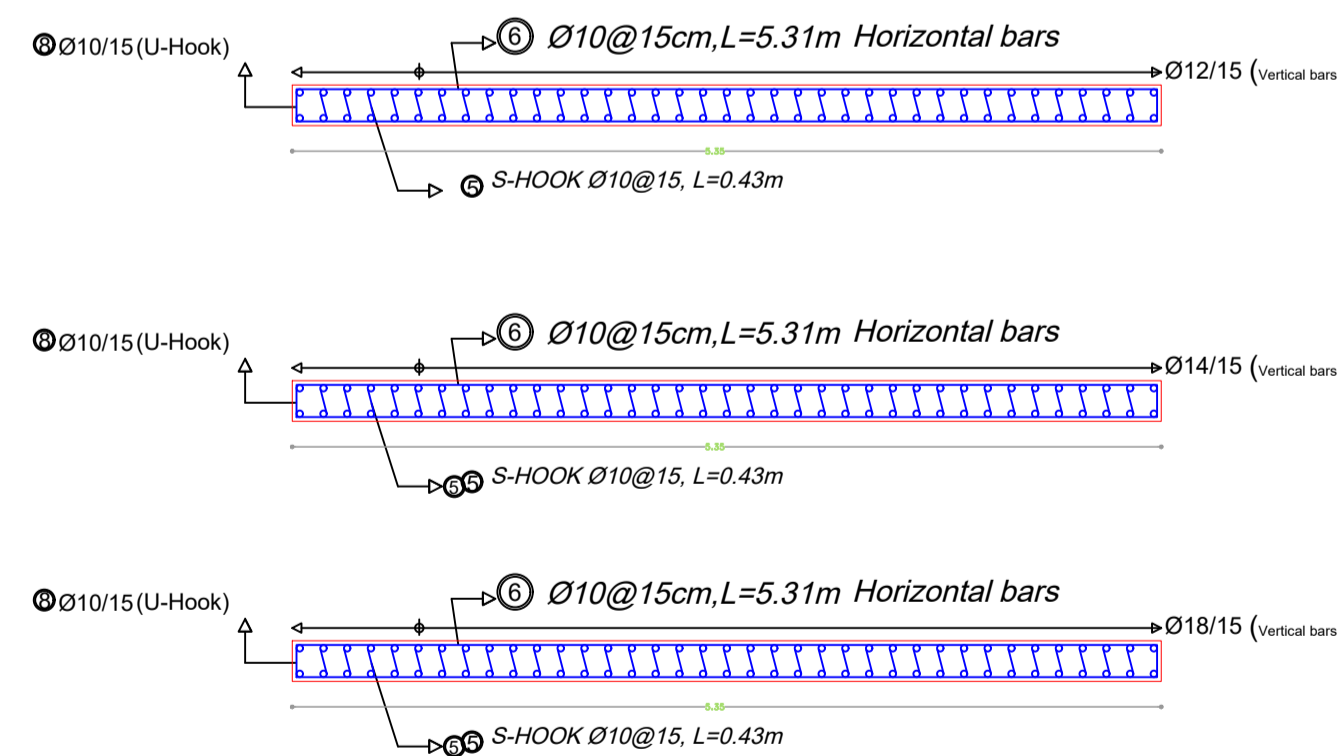
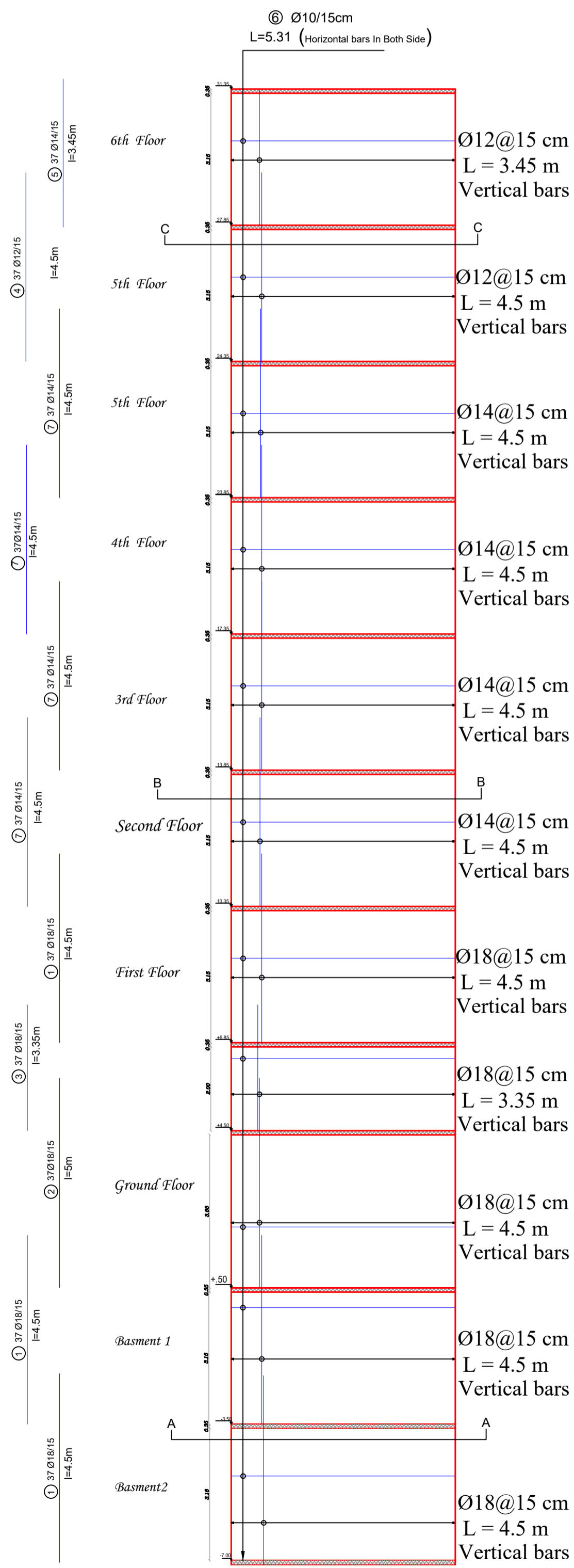
SCALE	No. of DRAW	DATE
1/250	S40	21/1/2024

Shear Wall Key Plan  
SCALE 1:200



# Shear walls ( 9 & BW)

S.W 9

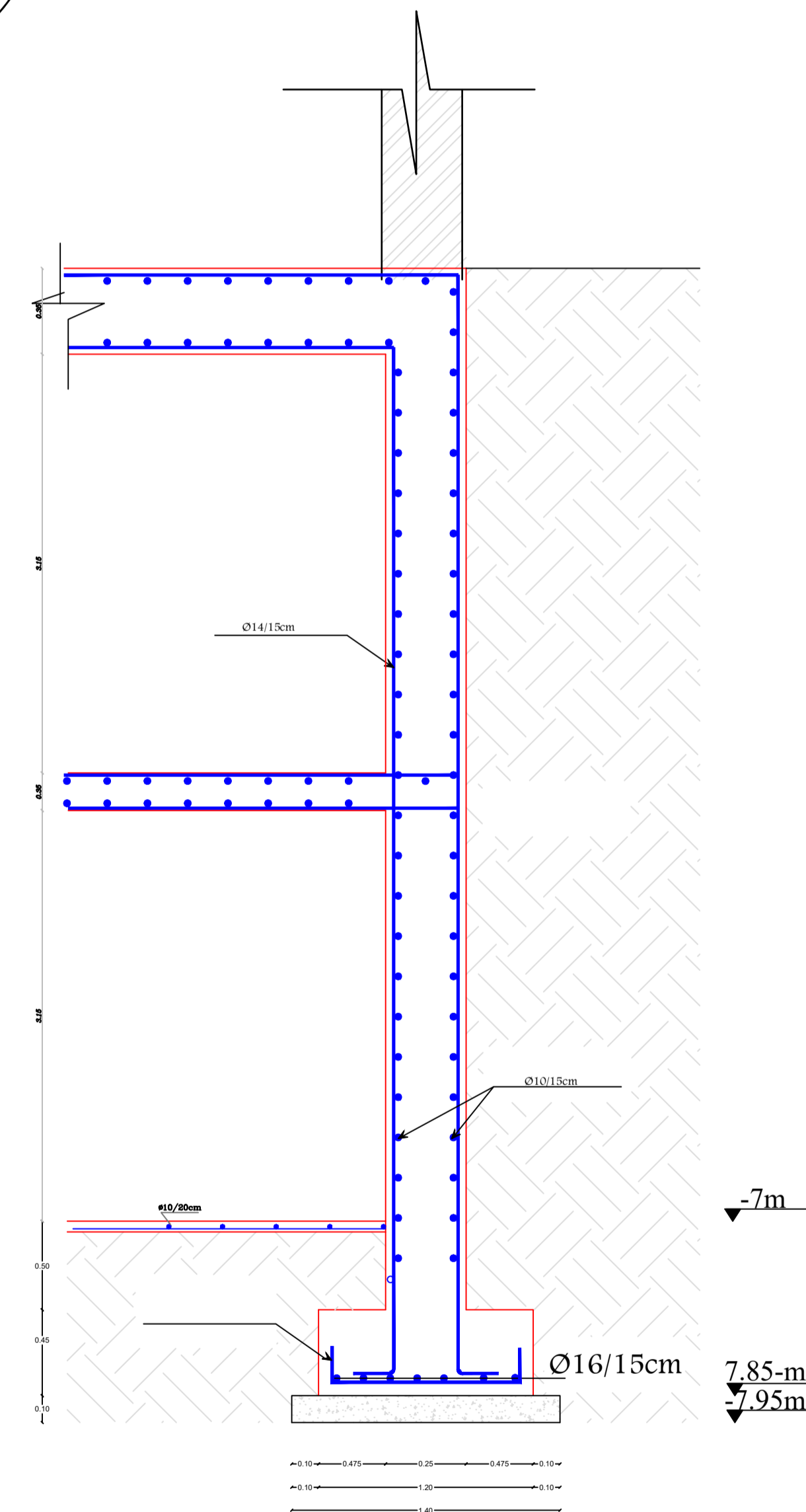


SCALE 1:25

## SECTION 1-1

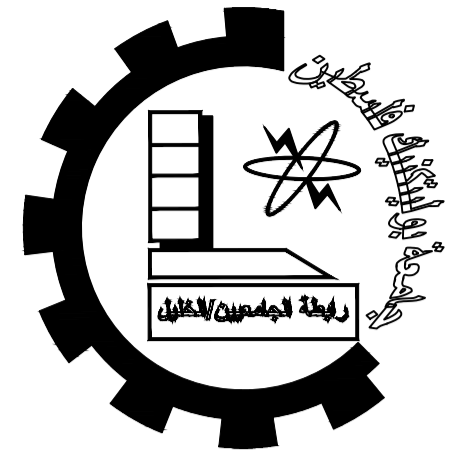
SCALE 1:25

B.W



B.W

Scale:1/25



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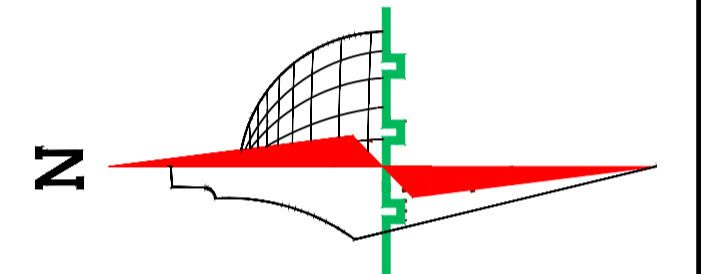
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### Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

W 9 & BW

Supervisor

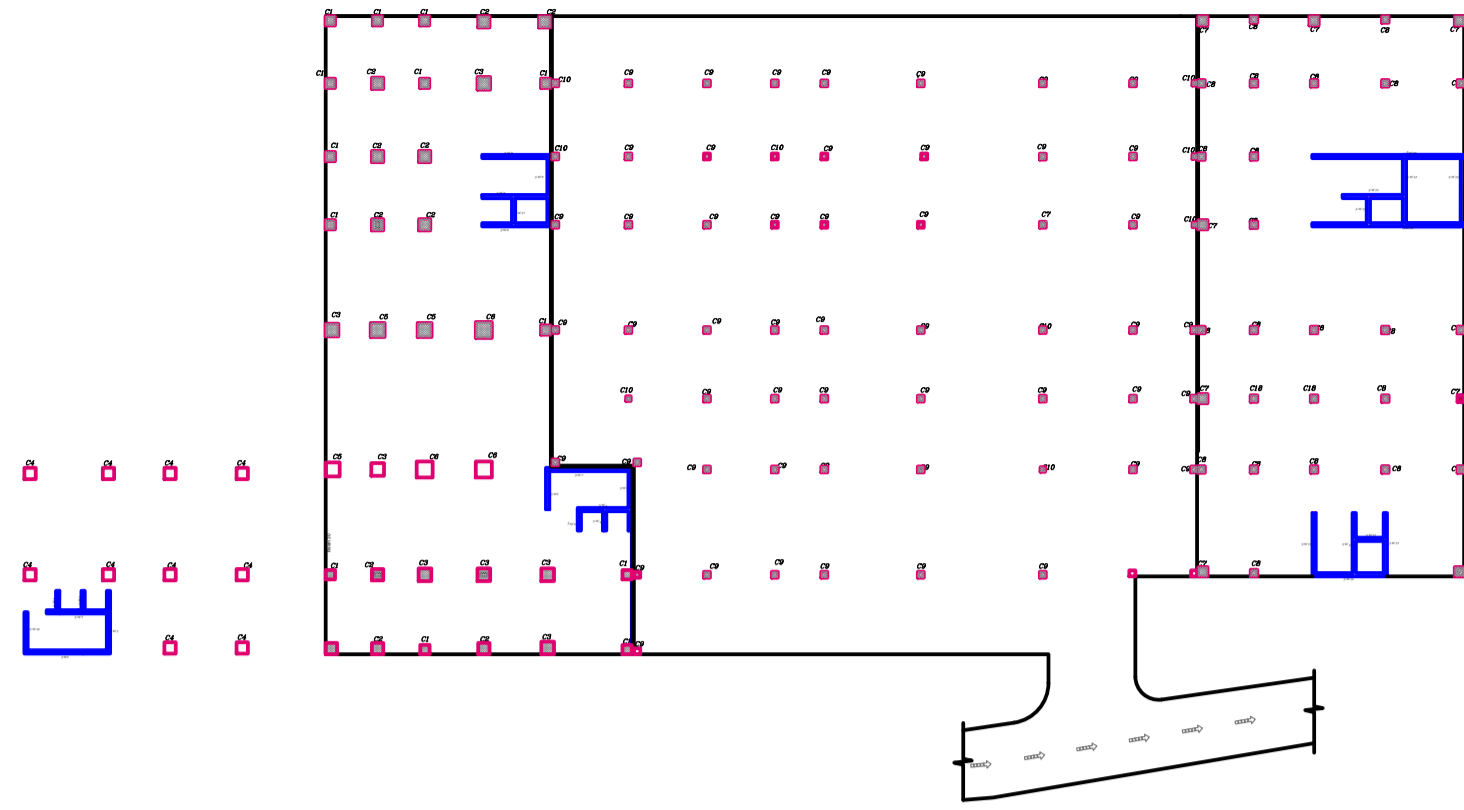
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

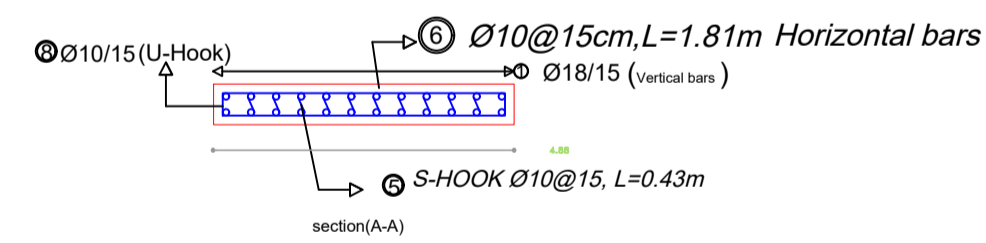
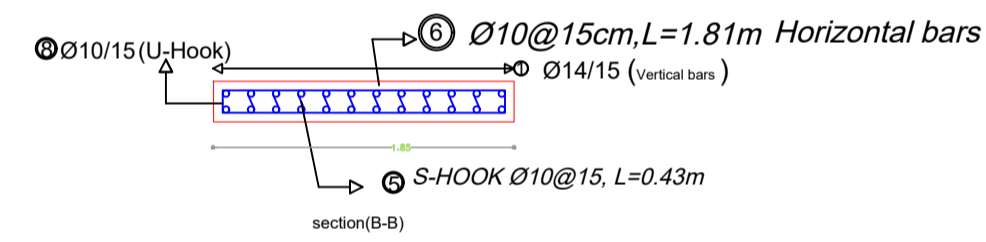
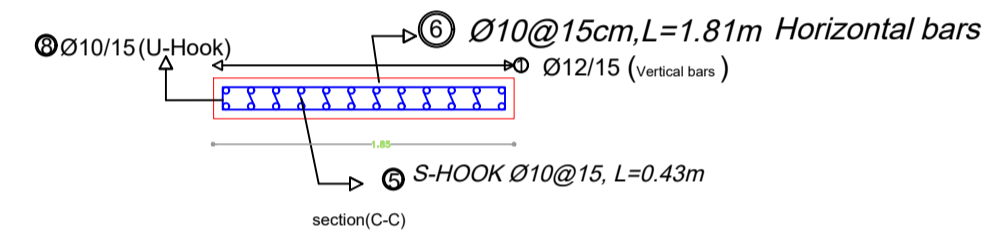
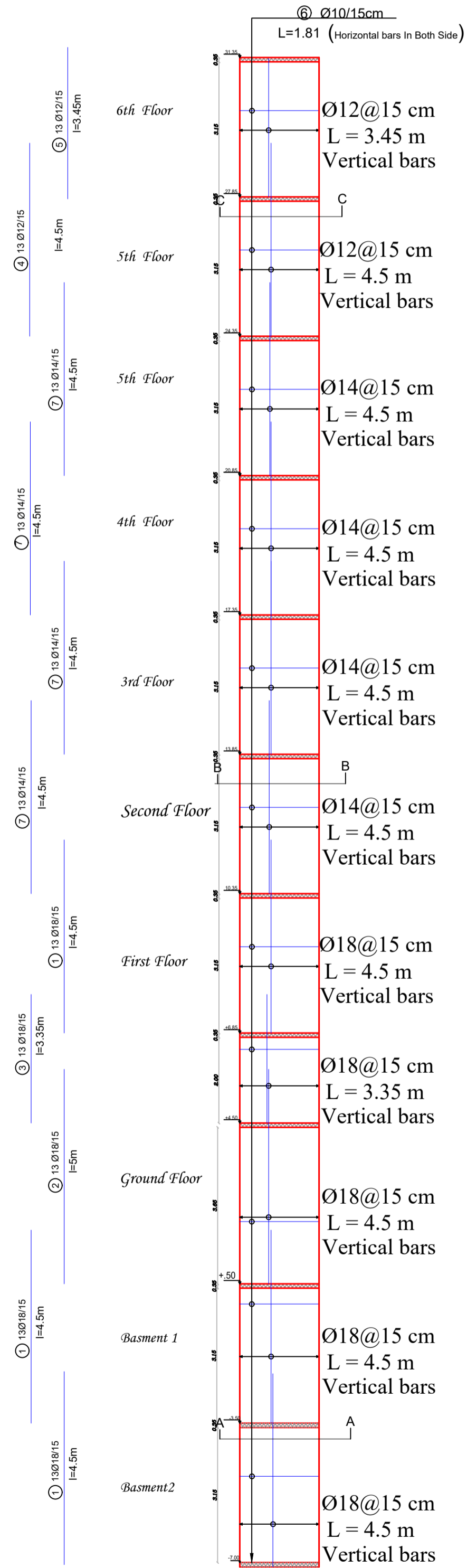
SCALE	No. of DRAW	DATE
1/250	S41	21/1/2024

Shear Wall Key Plan  
SCALE 1:200



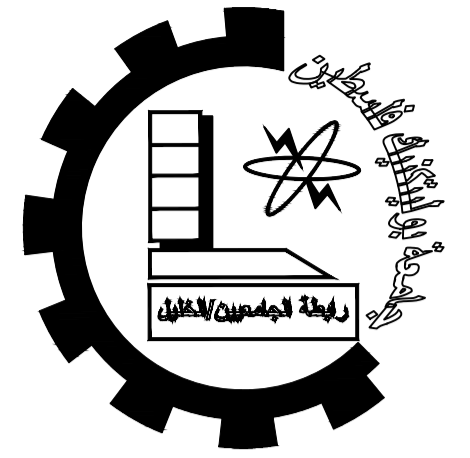
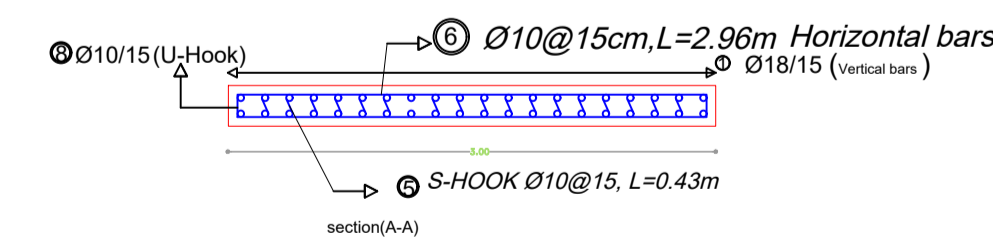
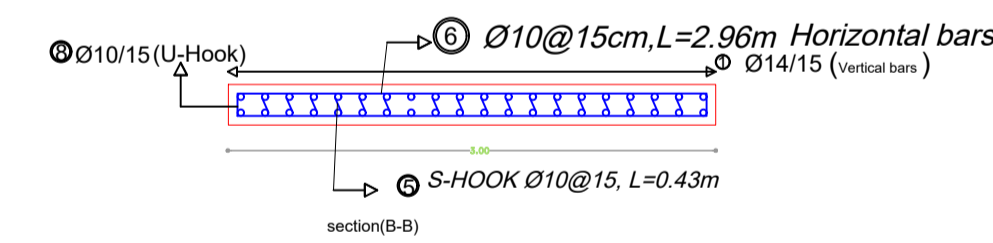
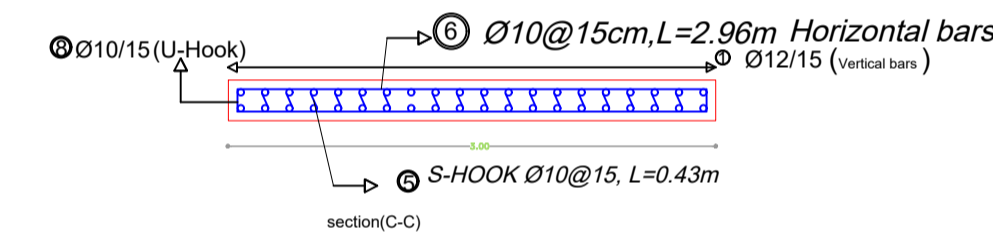
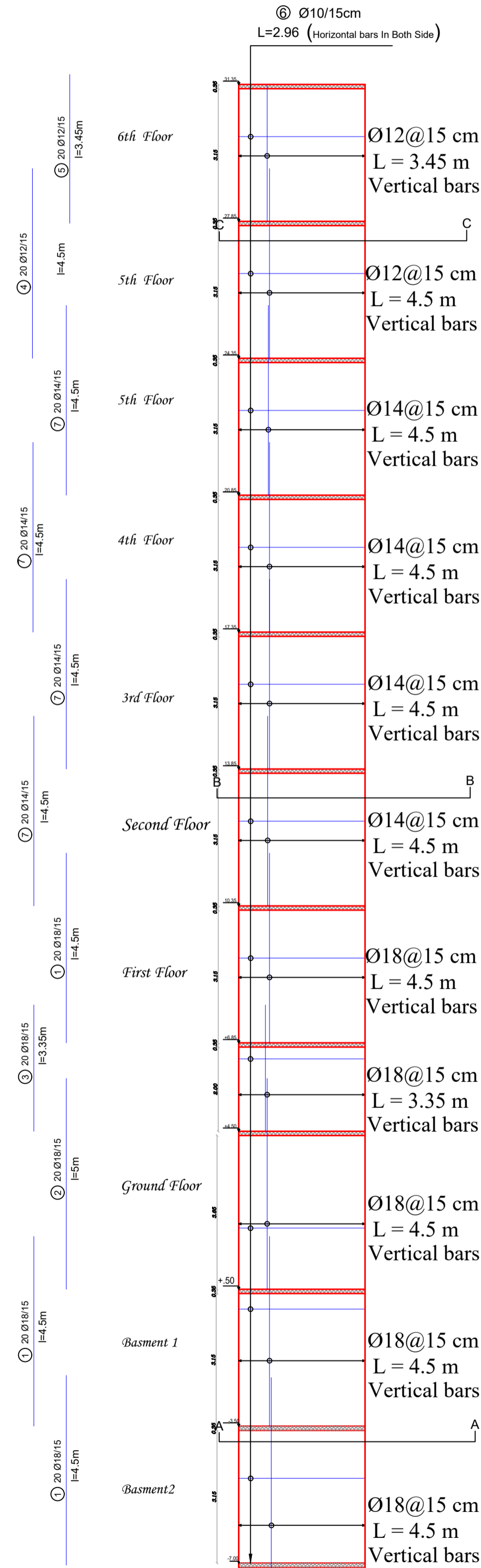
# Shear walls ( 15 & 16)

## S.W 15



SCALE  
1:25

## S.W16



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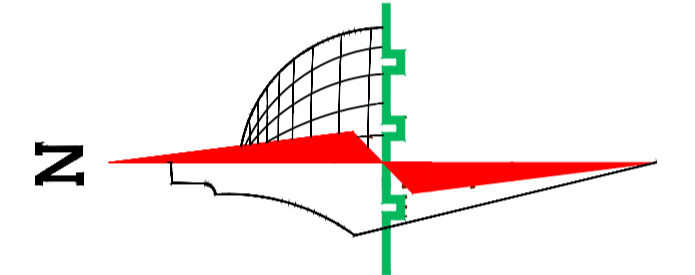
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### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

W 15 & W16

Supervisor

Dr.Maher Amro.

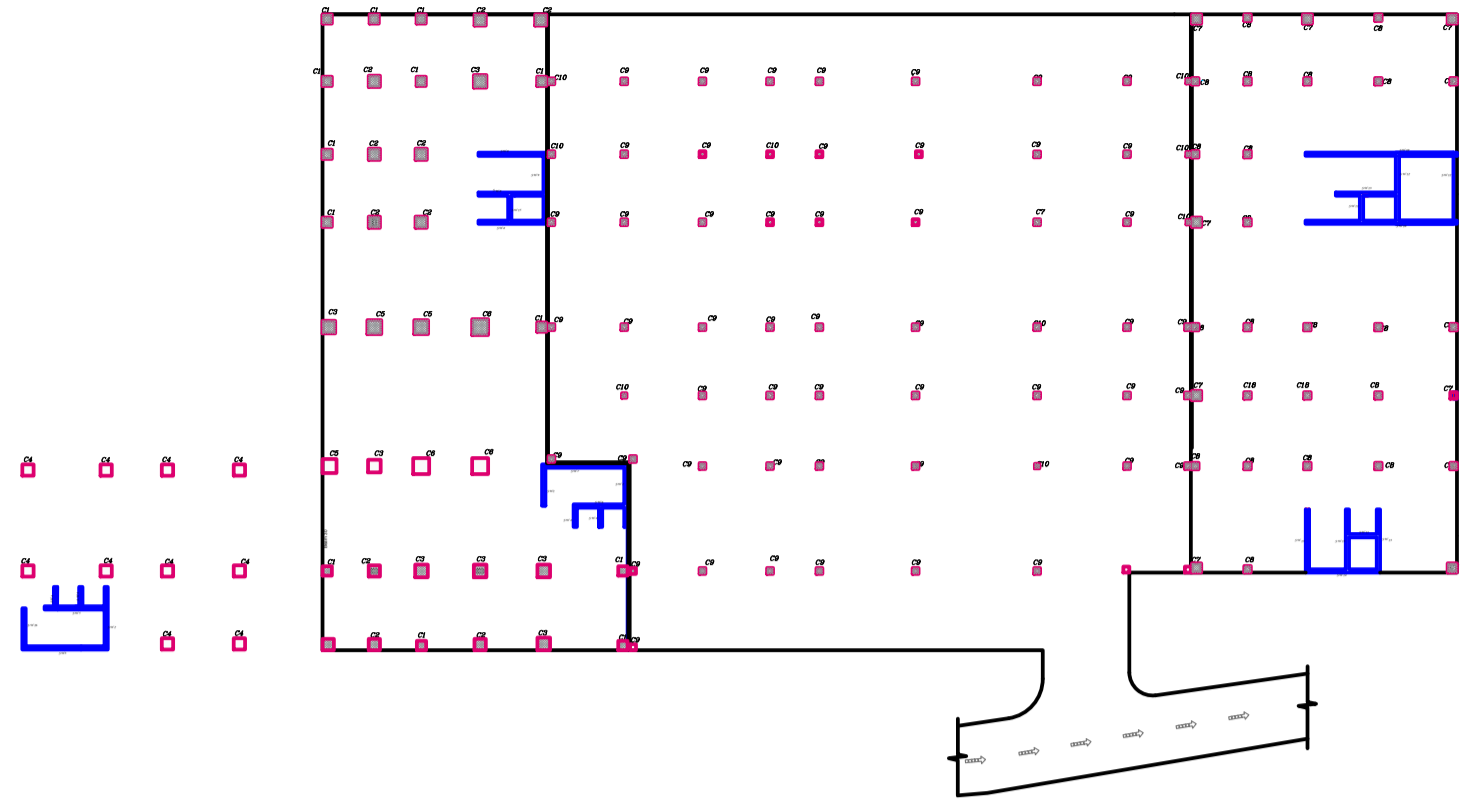
Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S42	21/1/2024



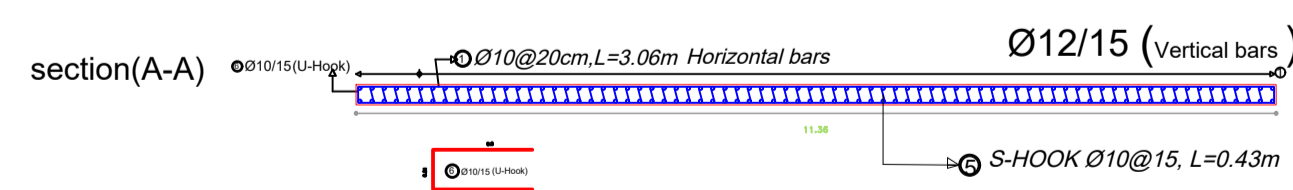
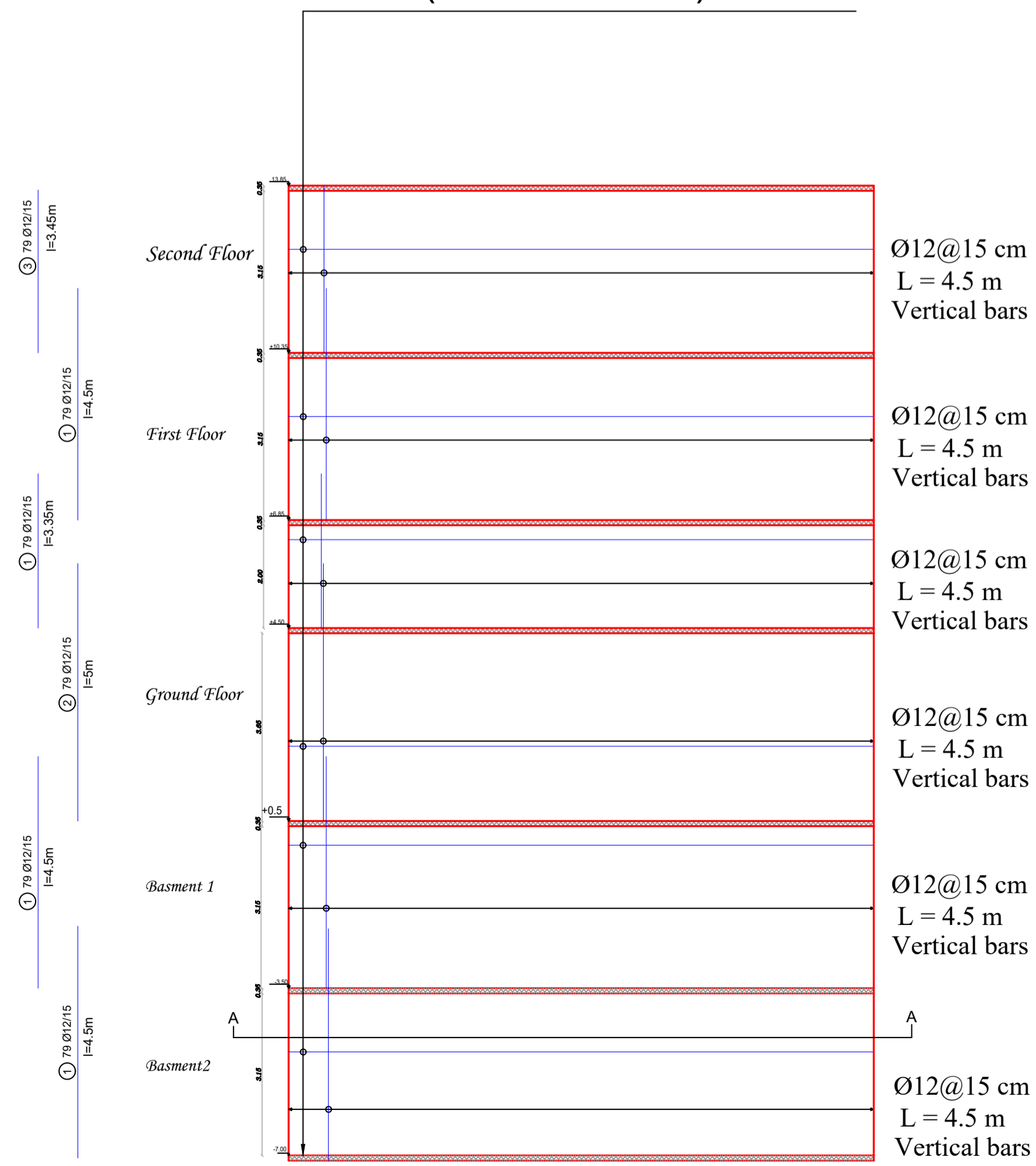
Shear Wall Key Plan  
SCALE 1:200



# Shear walls ( 10 & 11)

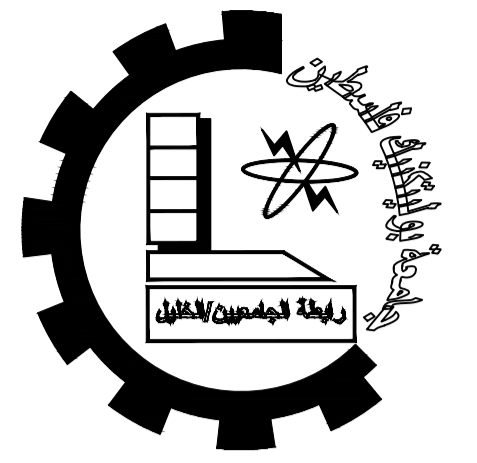
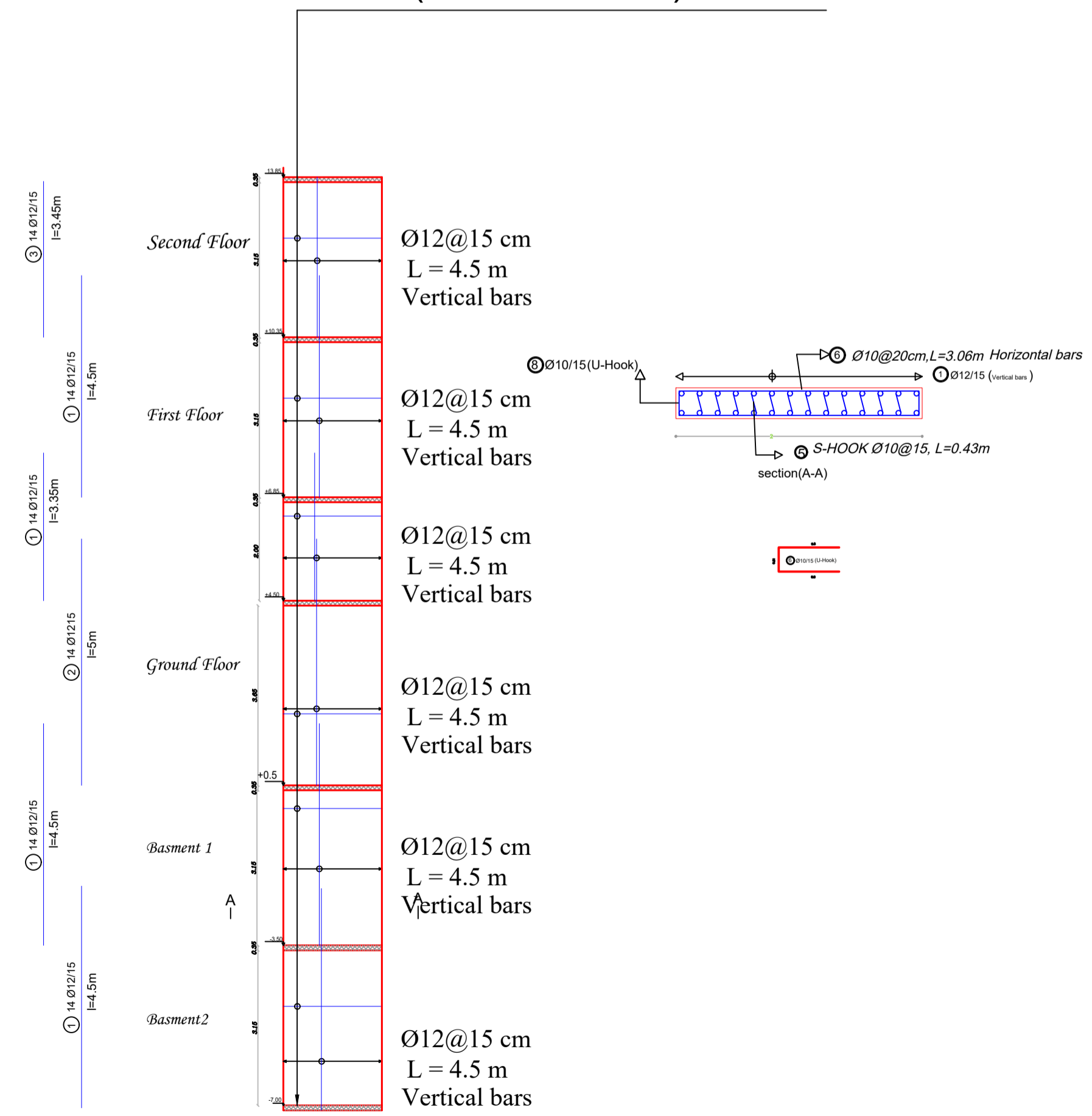
S.W 10

④ Ø10/20cm  
L=11.33 (Horizontal bars In Both Side)



S.W 11

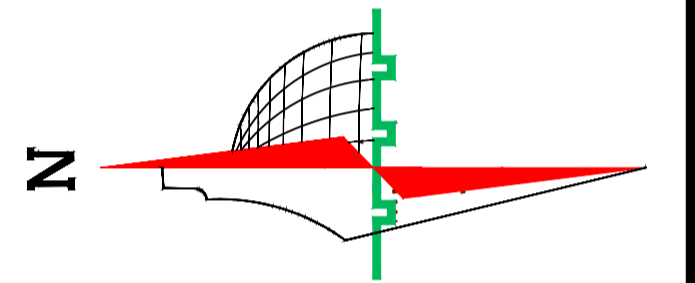
④ Ø10/20cm  
L=1.96 (Horizontal bars In Both Side)



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**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

W10 & S.W11

Supervisor

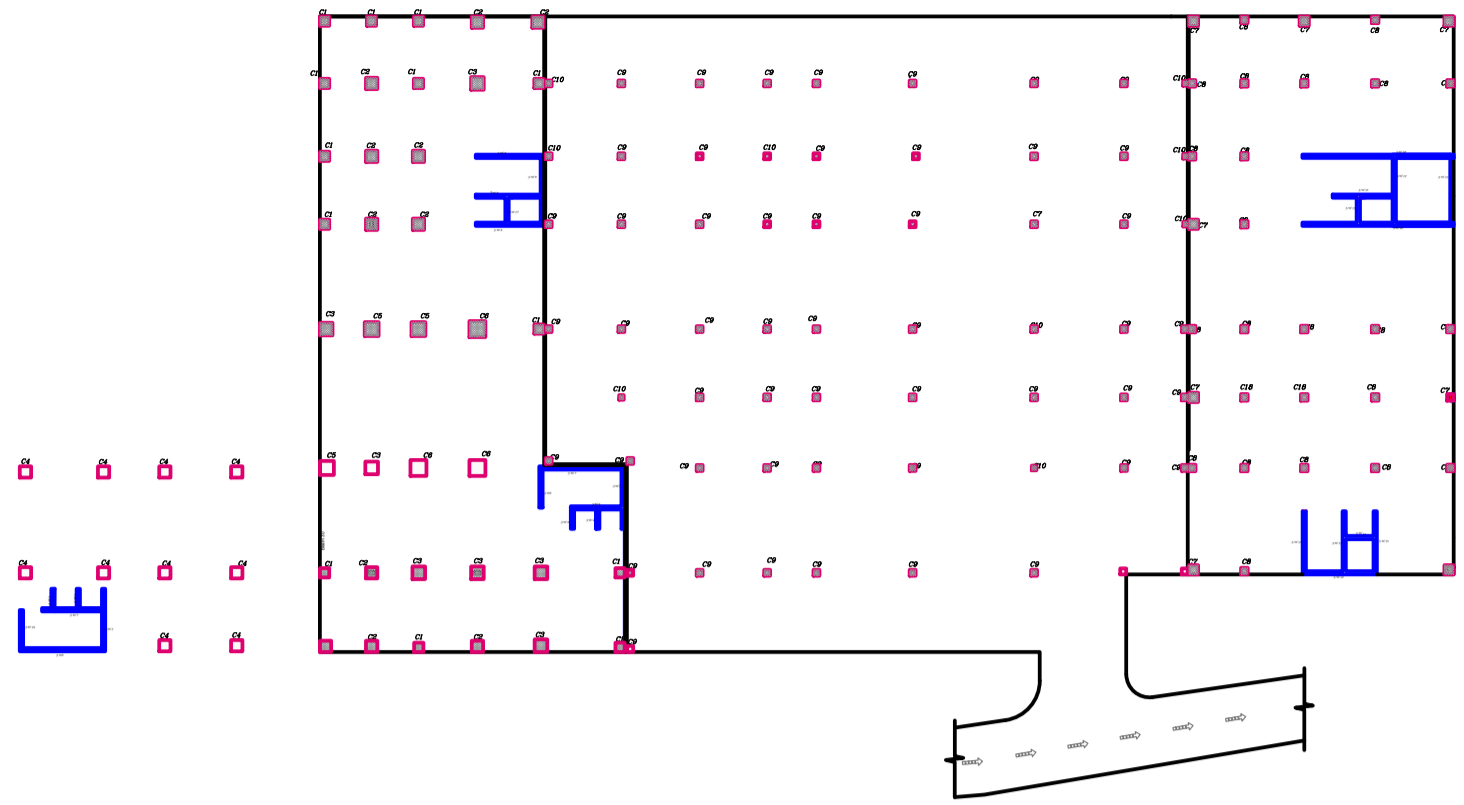
Dr.Maher Amro.

Done by :

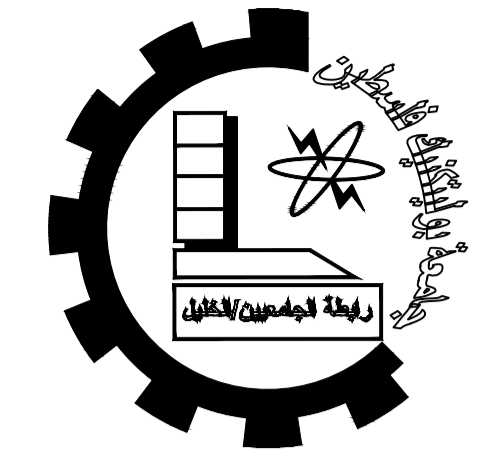
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S43	21/1/2024

Shear Wall Key Plan  
SCALE 1:200



## Shear walls ( 12 & 14)



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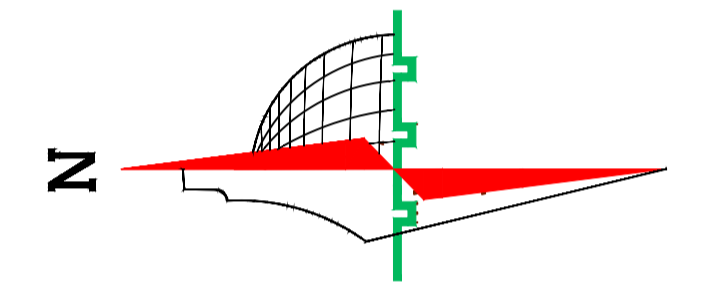
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### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

W12& S .W14

Supervisor

Dr.Maher Amro.

Done by :

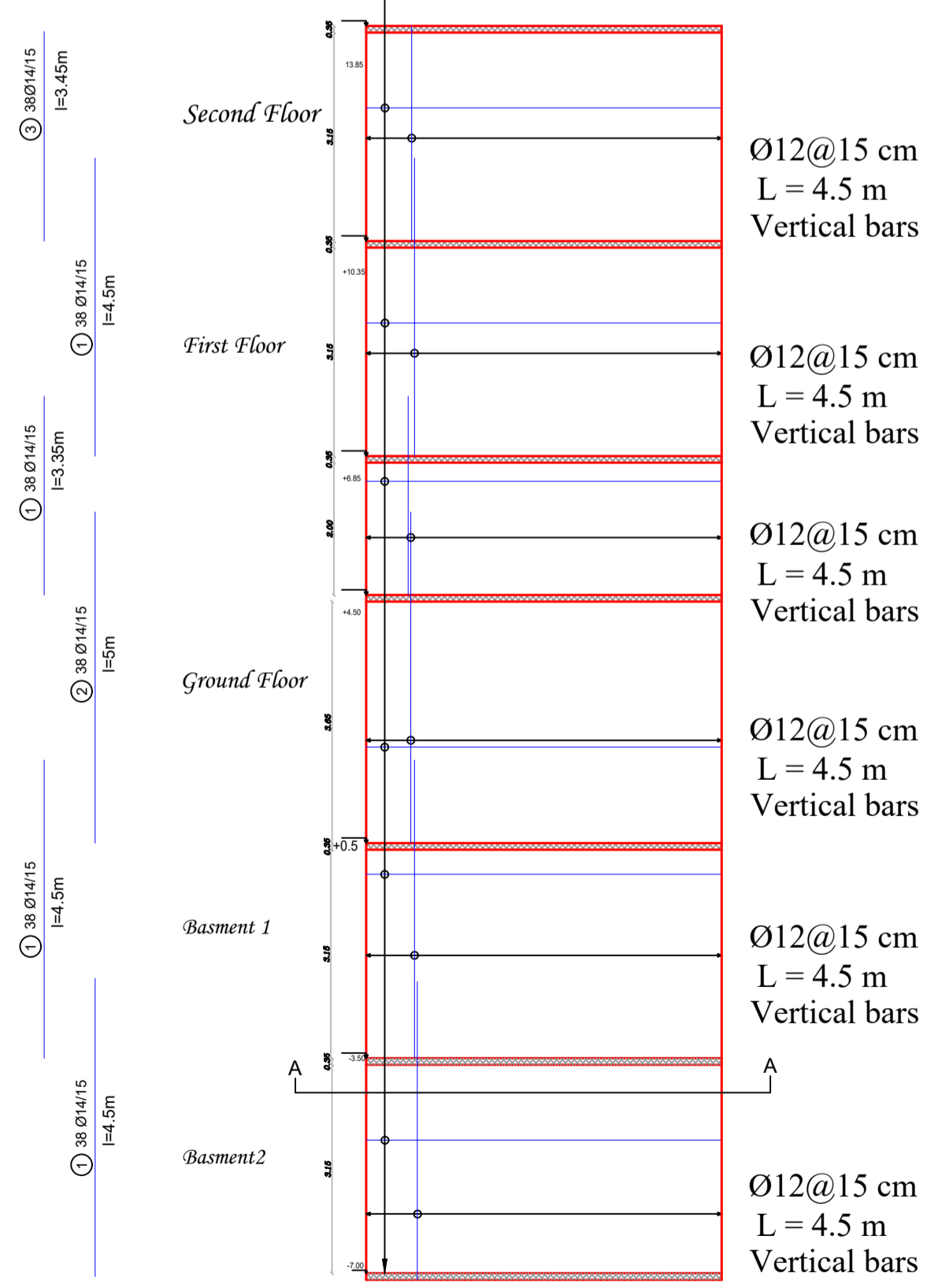
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE No. of DATE

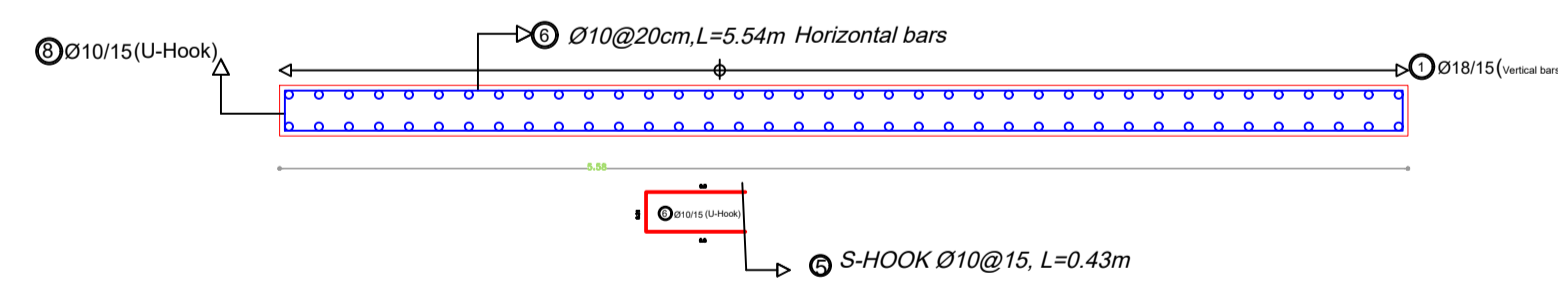
1/250 S44 21/1/2024

### S.W 14

④ Ø10/20cm  
L=5.54 (Horizontal bars In Both Side)

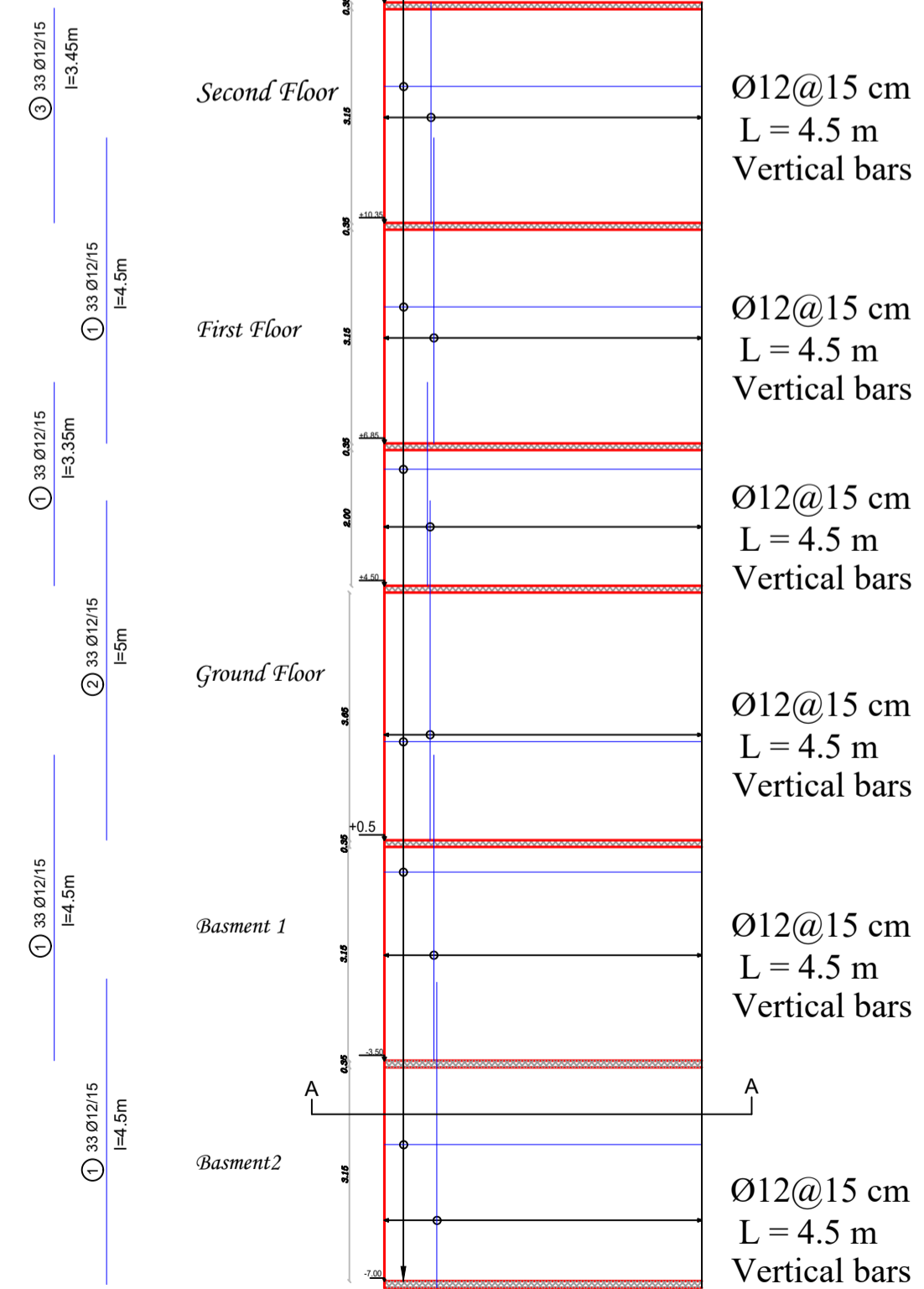


### section(A-A)

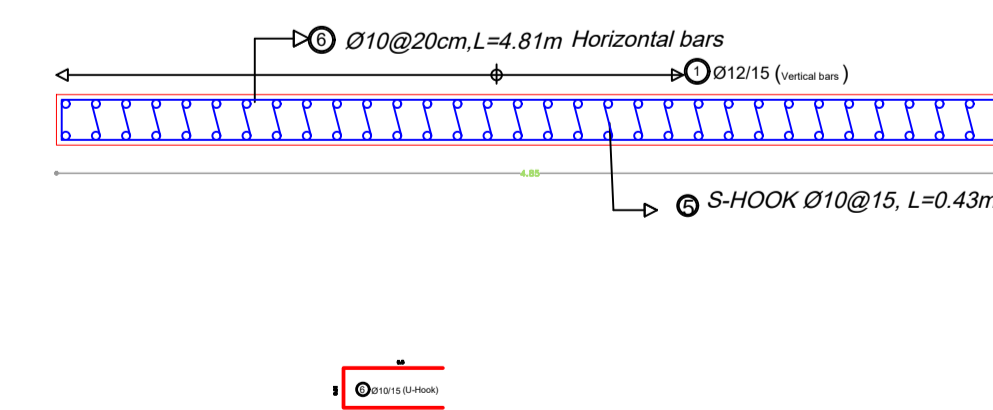


### S.W 12

④ Ø10/20cm  
L=4.81 (Horizontal bars In Both Side)

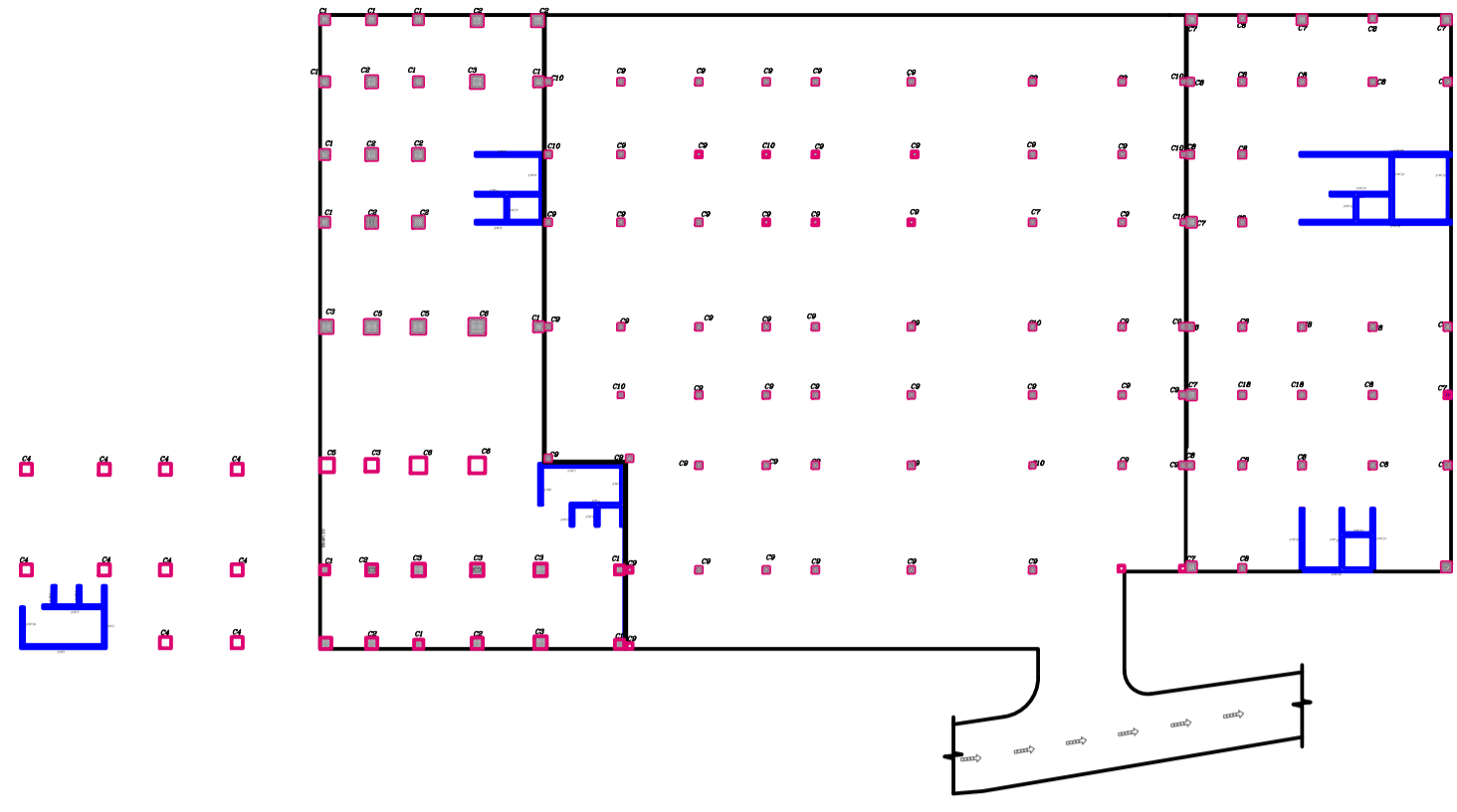


### section(A-A)



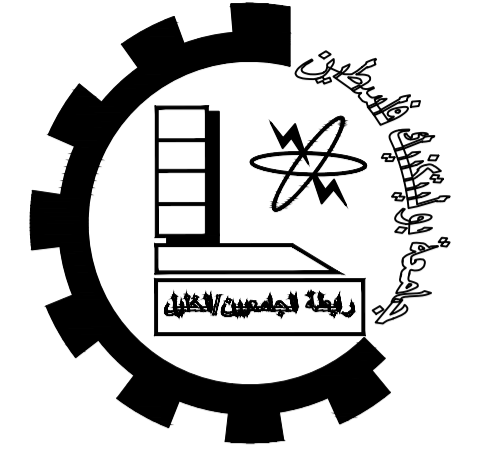
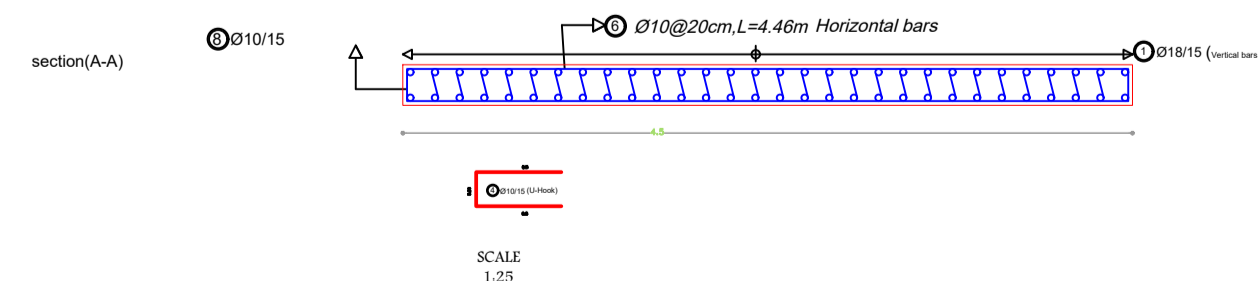
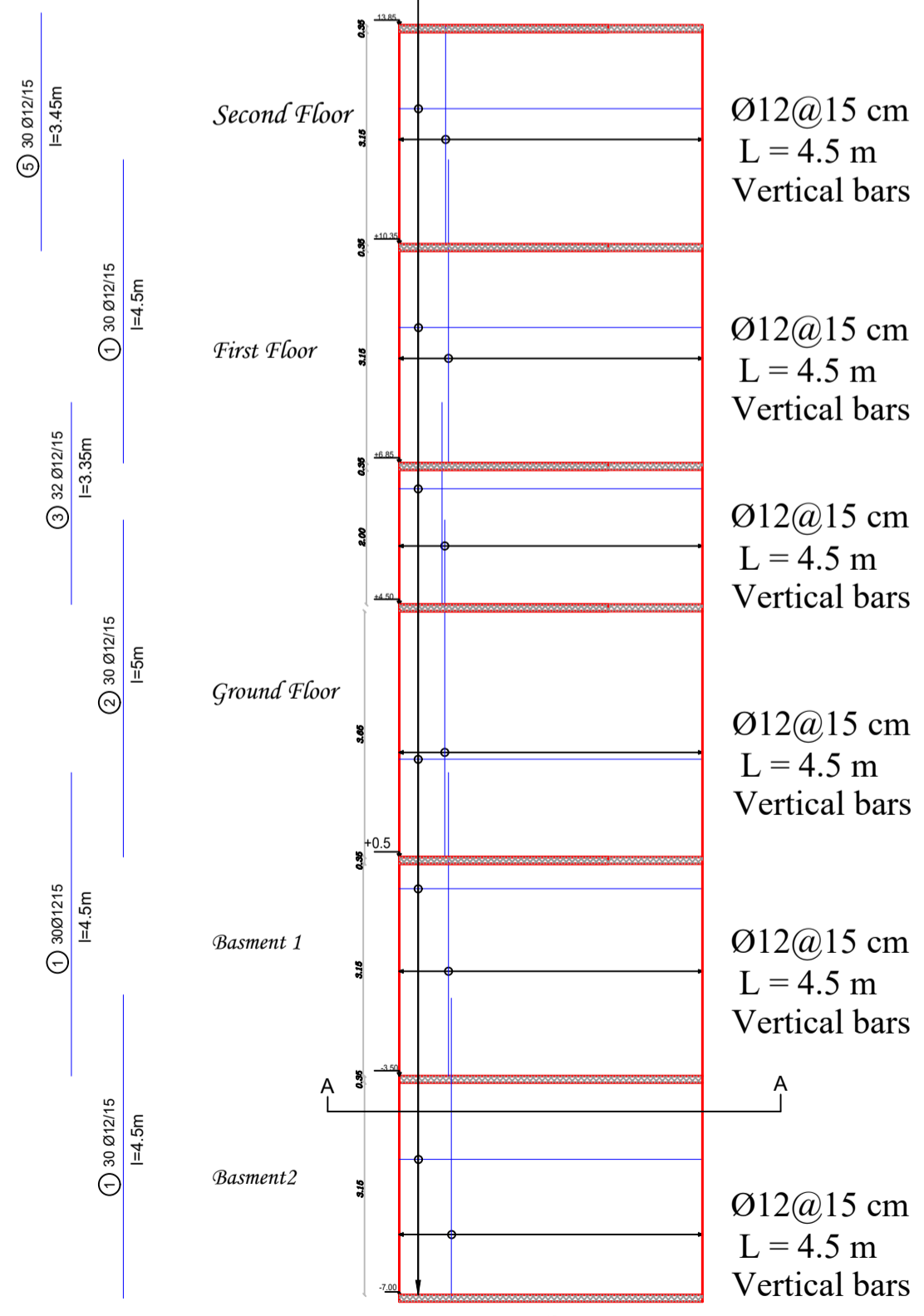
# Shear walls ( 13

Shear Wall Key Plan  
SCALE 1:200



S.W 13

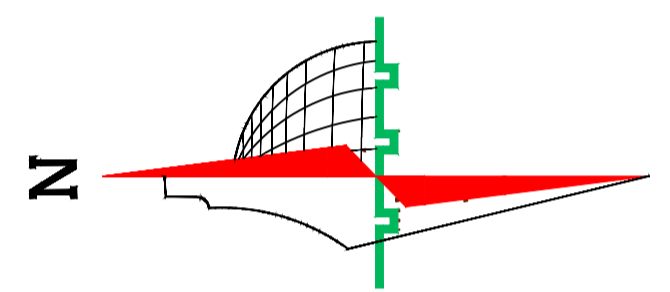
④ Ø10/20cm  
L=4.46 (Horizontal bars In Both Side)



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**Legend :**

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

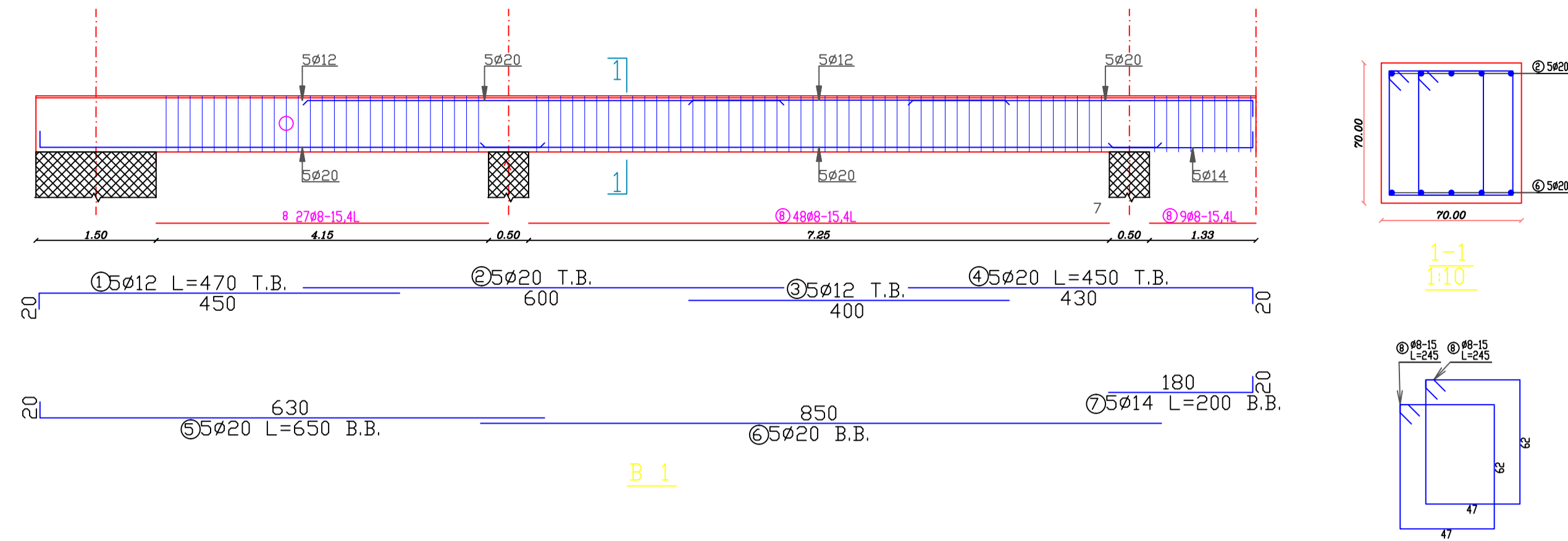
S.W13

Supervisor  
Dr.Maher Amro.

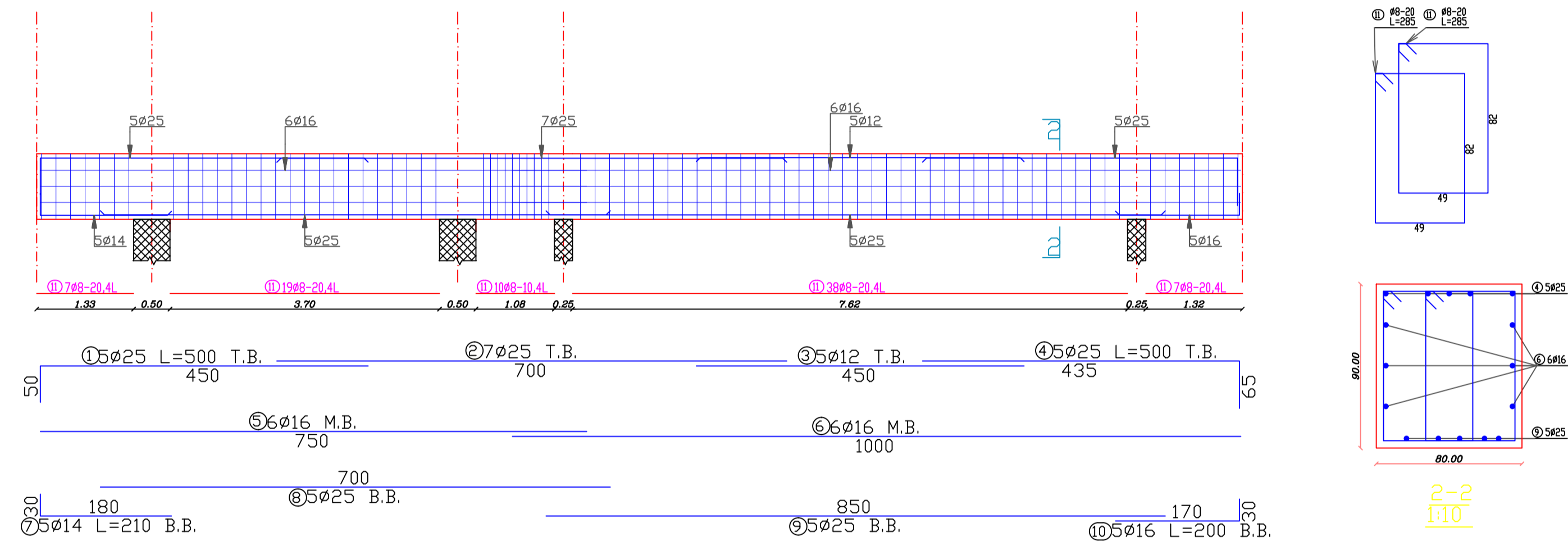
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S45	21/1/2024

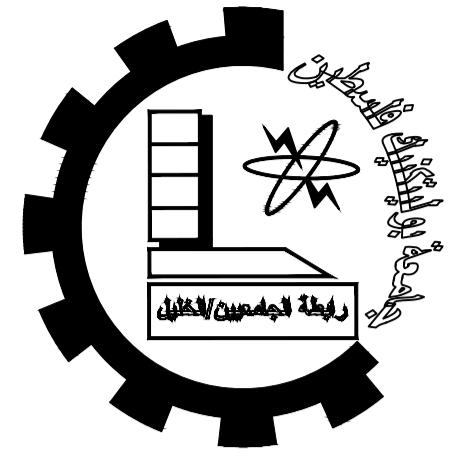
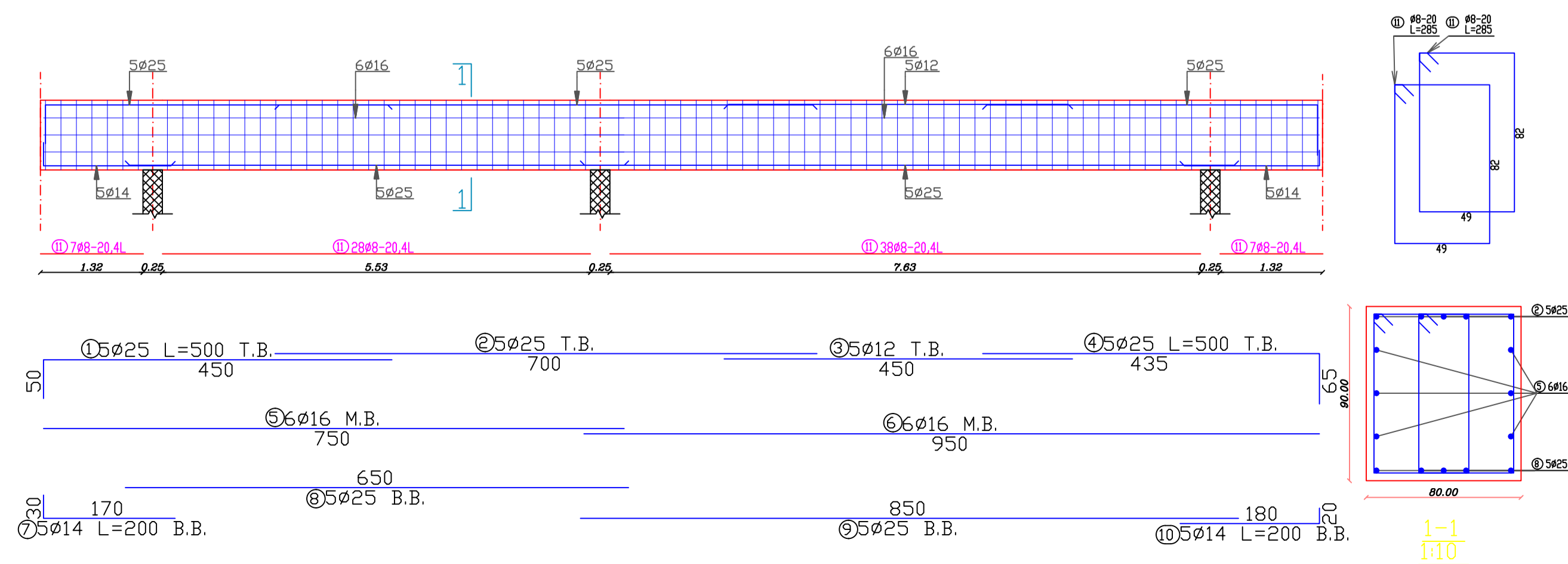
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Scale 1:25



Beam : 2  
Scale 1:50



Beam : 3  
Scale 1:25



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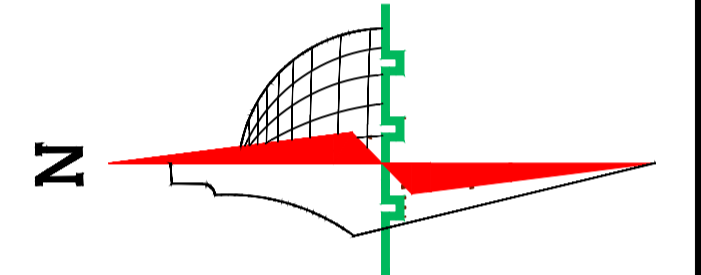
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Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Supervisor

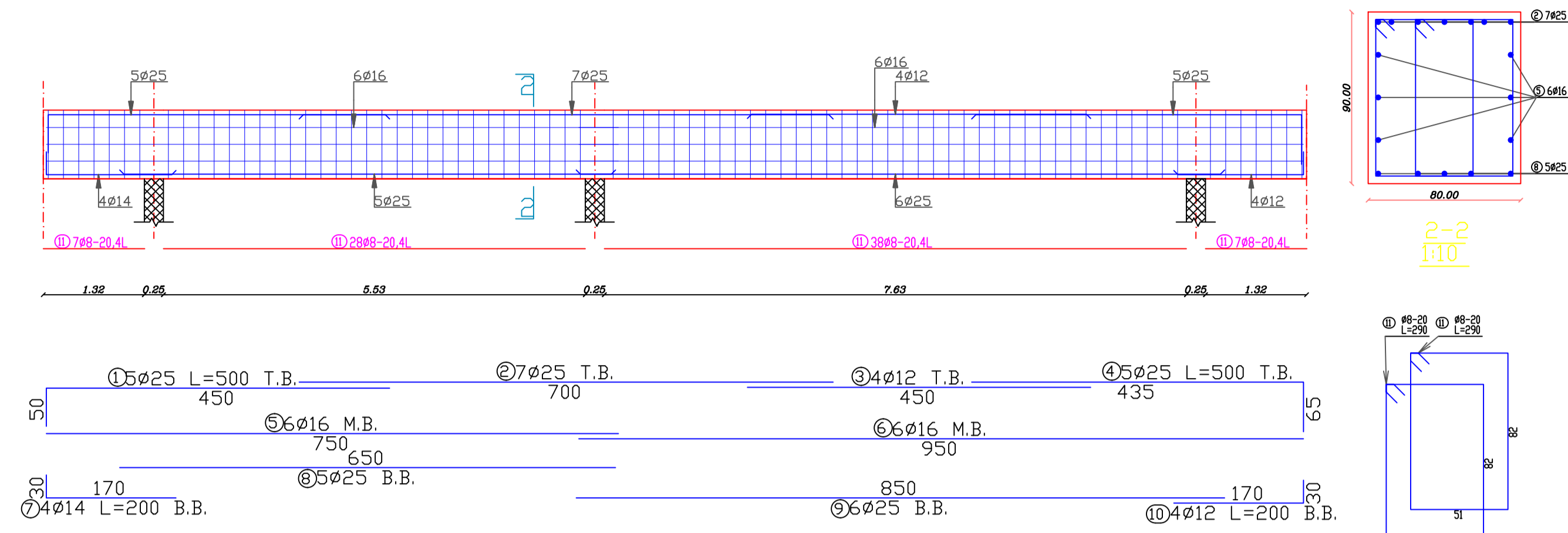
Dr.Maher Amro.

Done by :

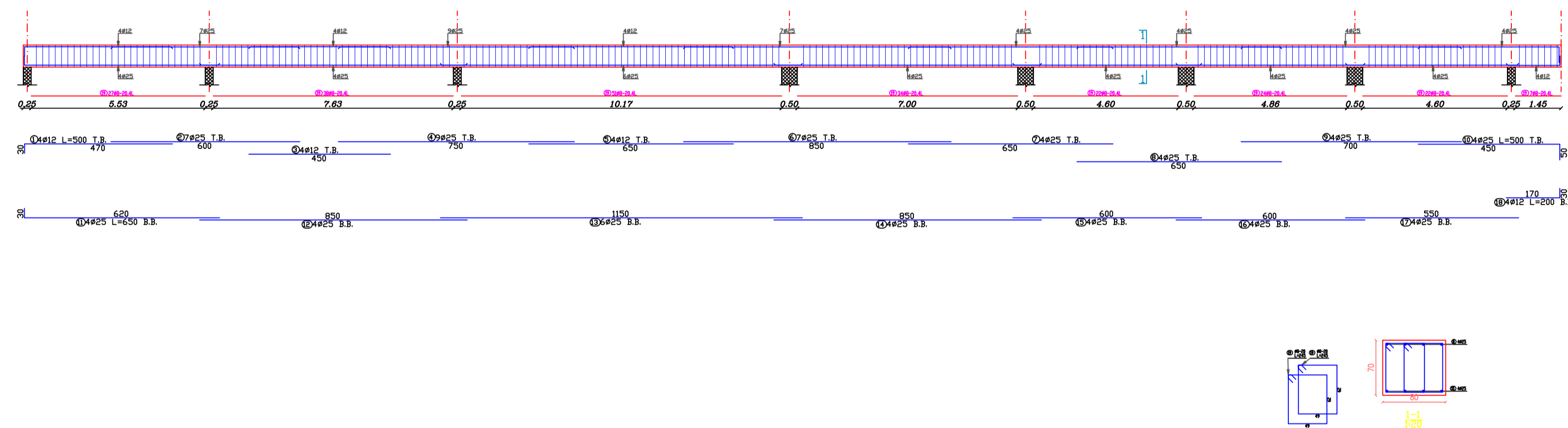
*Khaled najjar*  
*Nizar al sharaya*  
*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	S13	21/1/2024

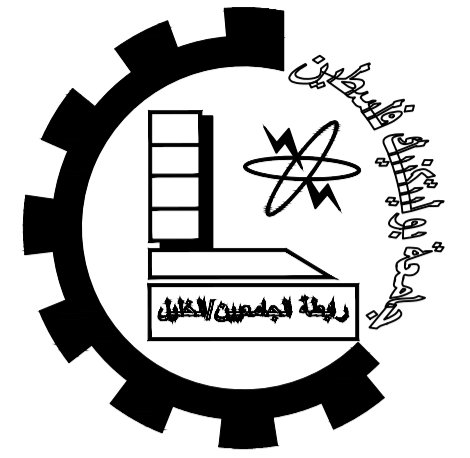
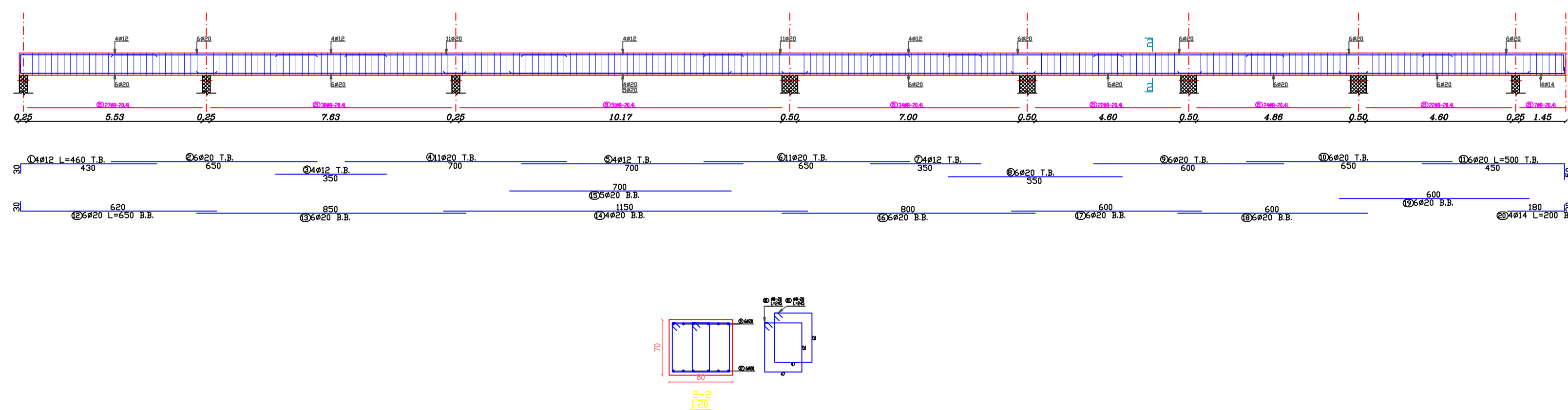
Beam : 4  
Scale 1:25



Beam : 5  
Scale 1:50



Beam : 6  
Scale 1:50



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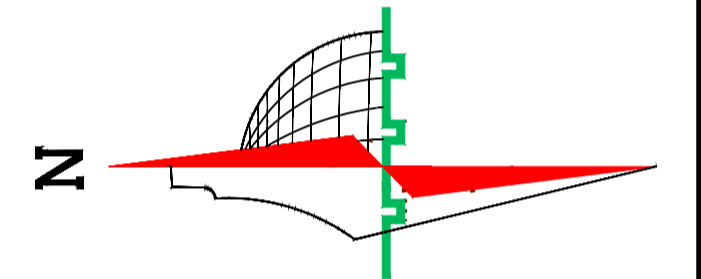
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IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Supervisor

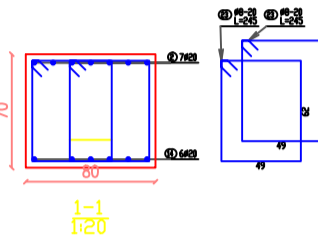
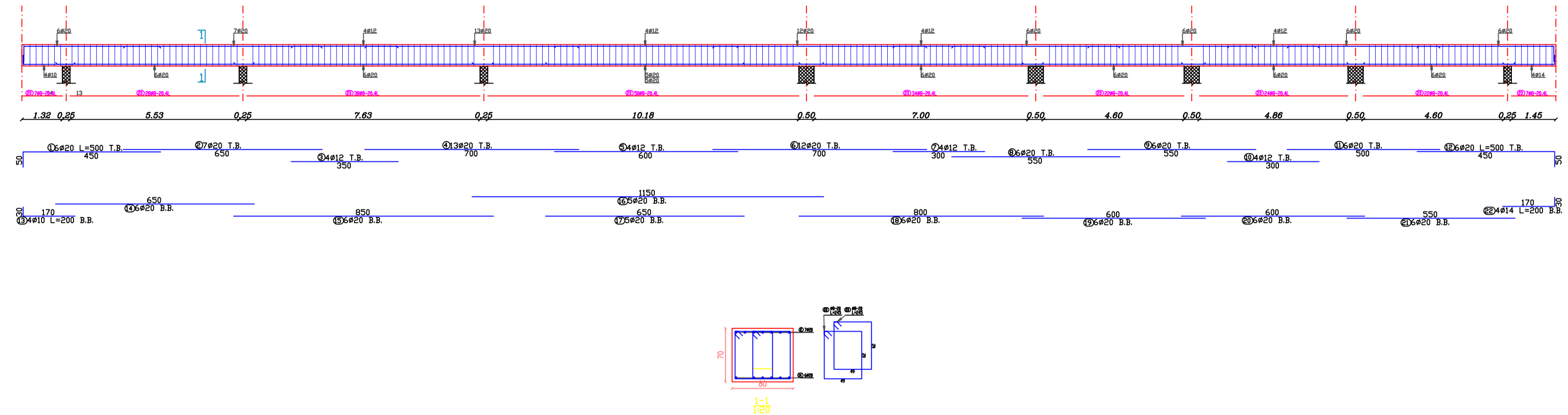
Dr.Maher Amro.

Done by :

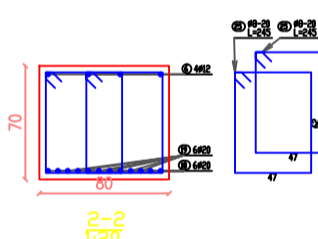
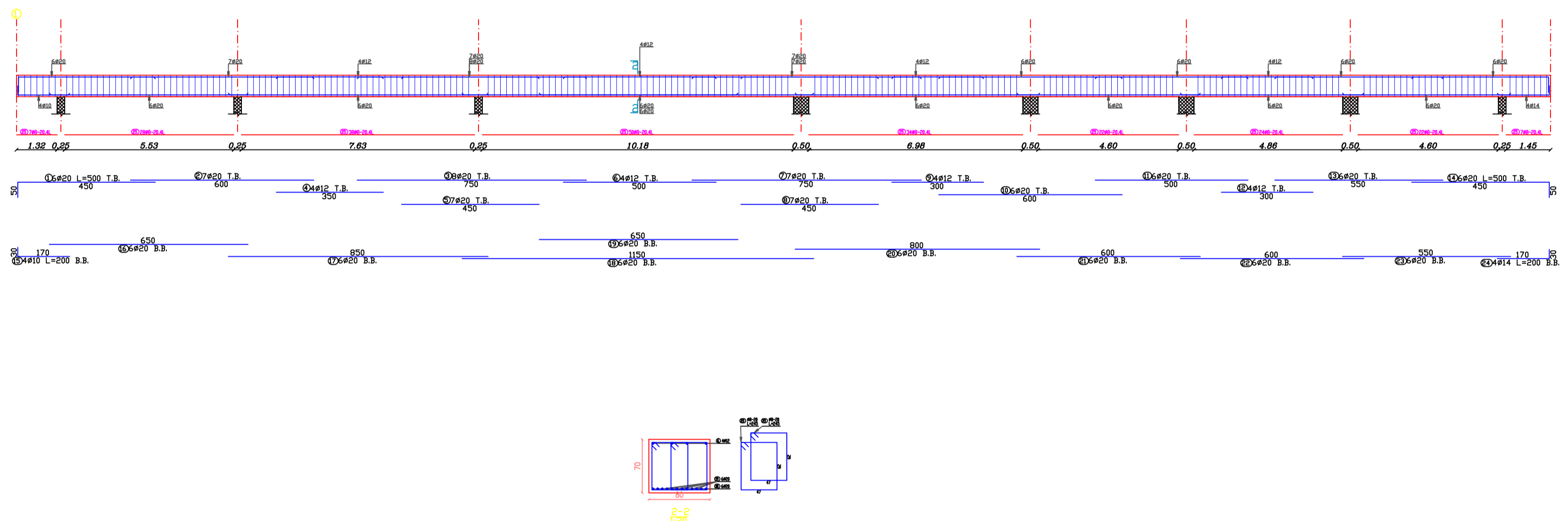
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S14	21/1/2024

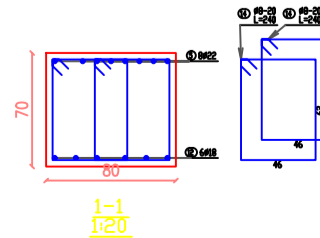
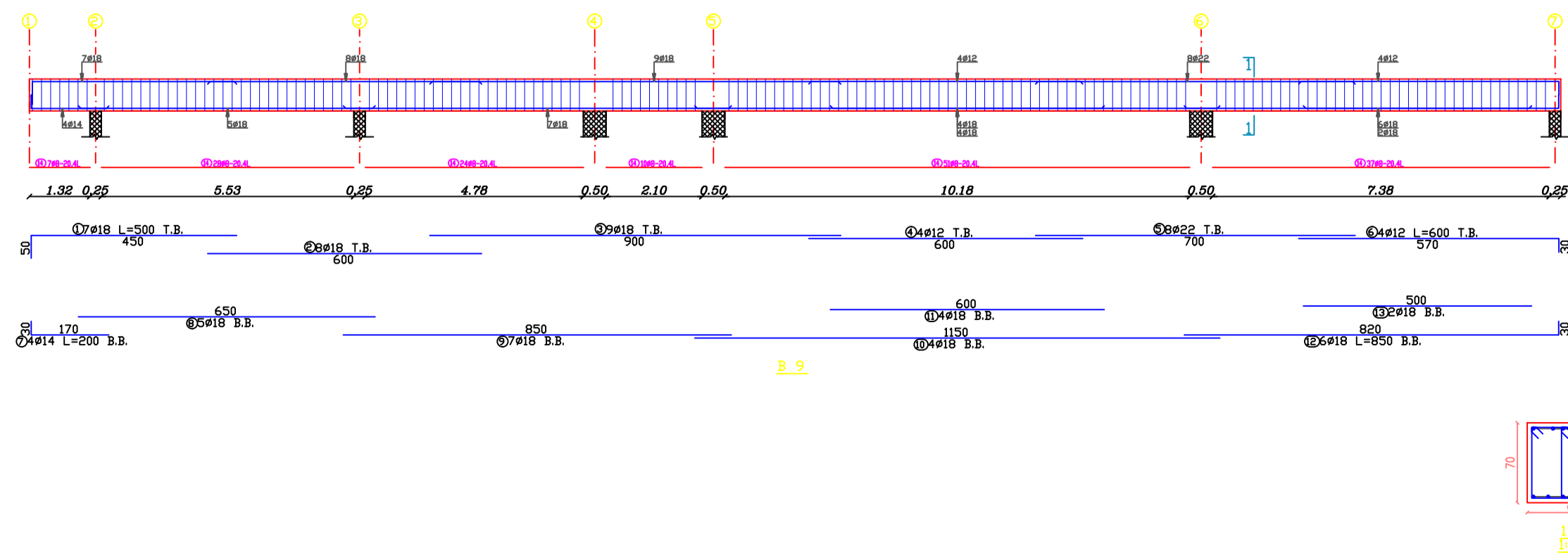
Beam : 7  
Scale 1:50



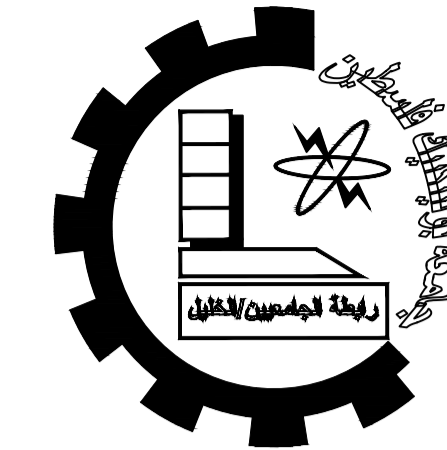
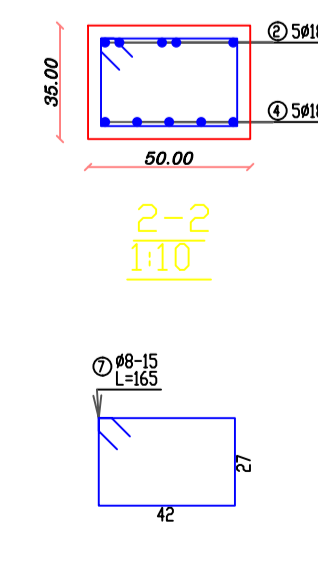
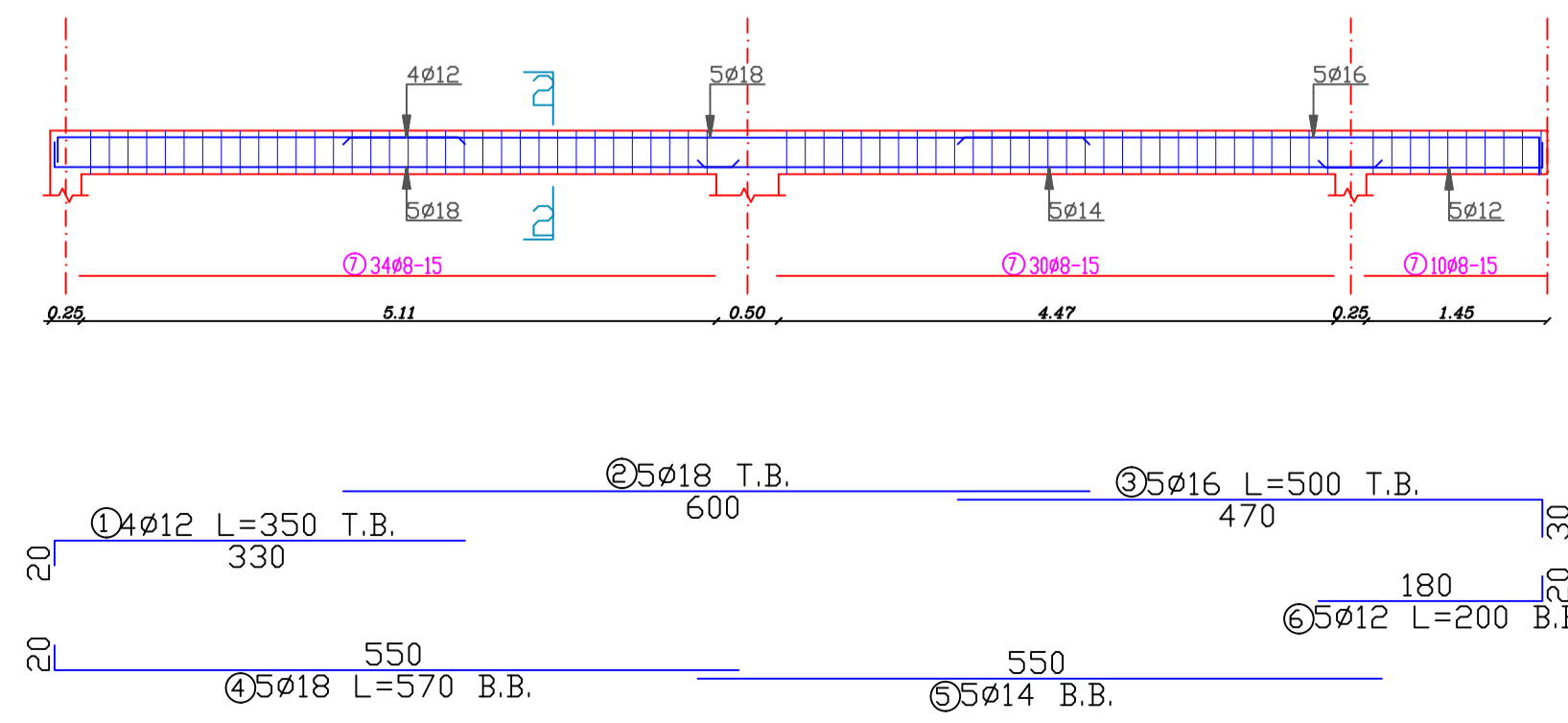
Beam : 8  
Scale 1:50



Beam : 9  
Scale 1:25



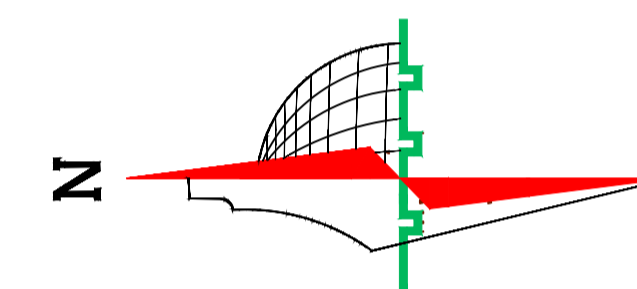
Beam : 10  
Scale 1:50



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IVORY HOTEL & RESORT



Legend :

- Stone
- R.C. Concrete
- Concrete
- Hollow Block
- Insulating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

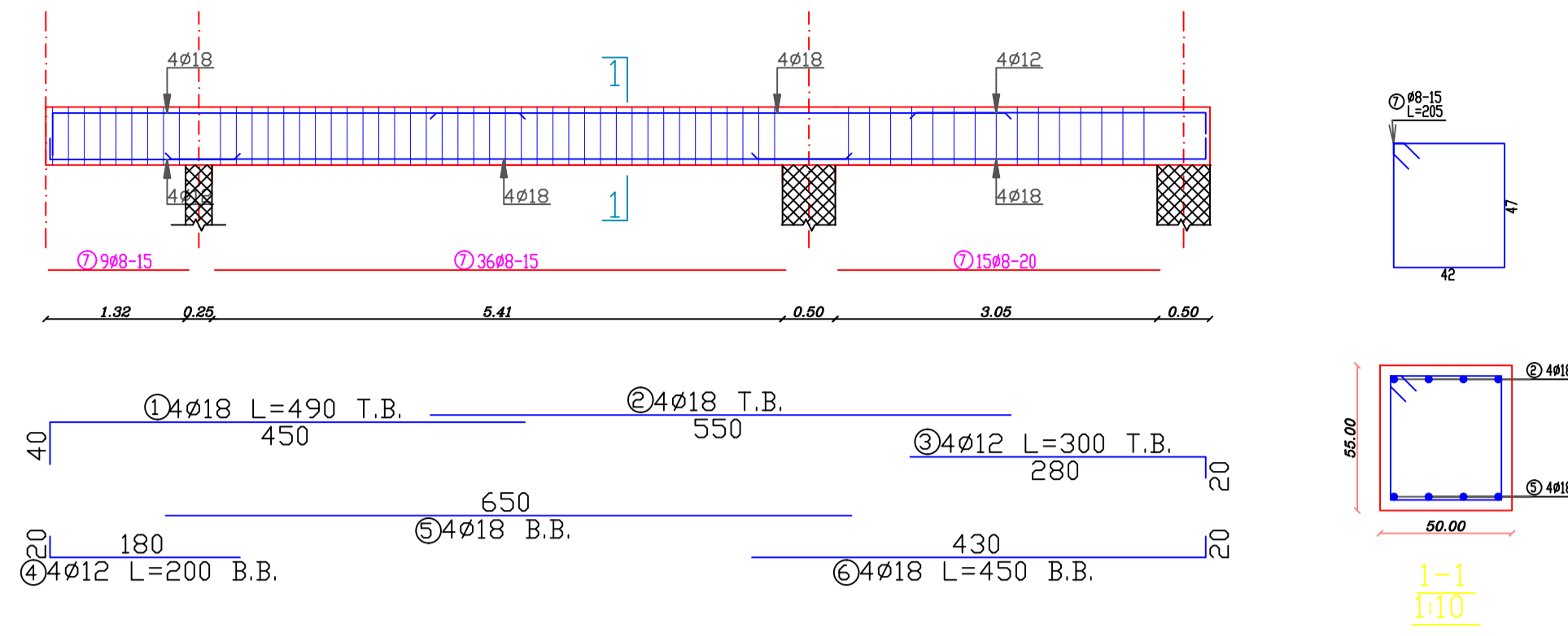
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

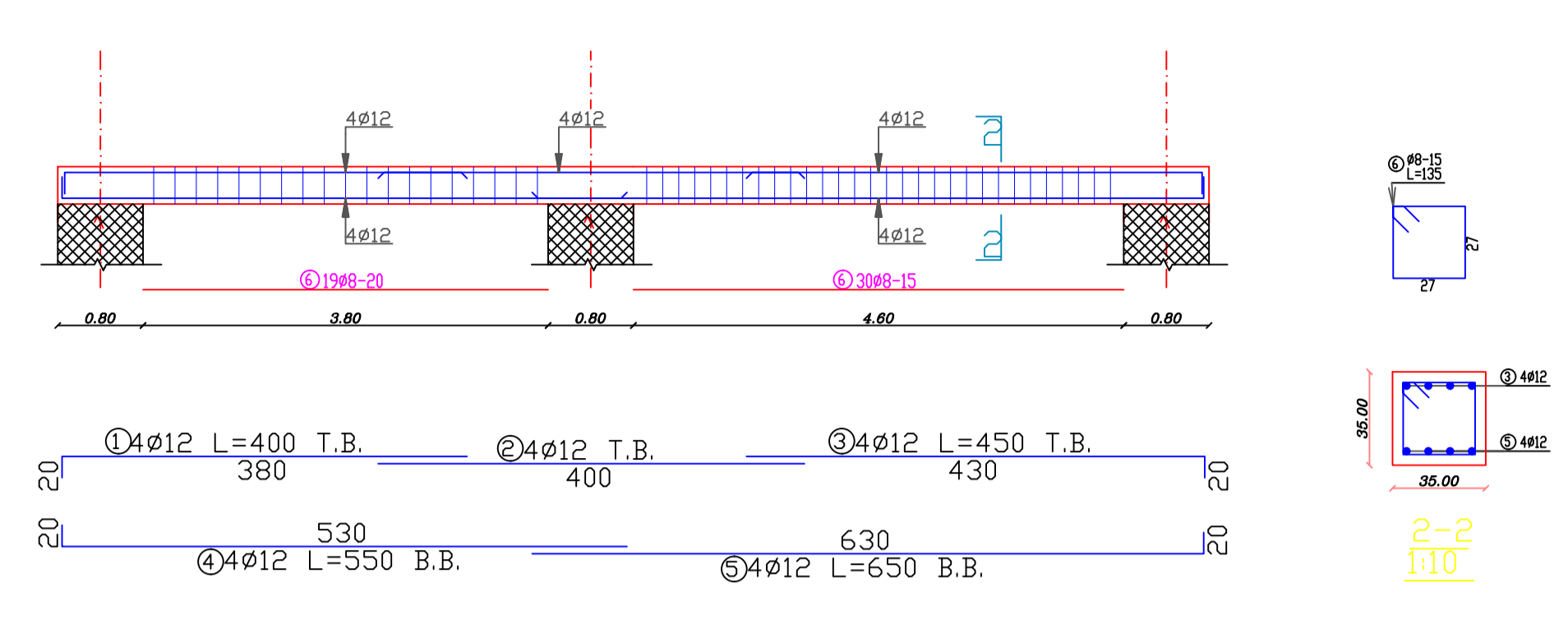
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S15	21/1/2024

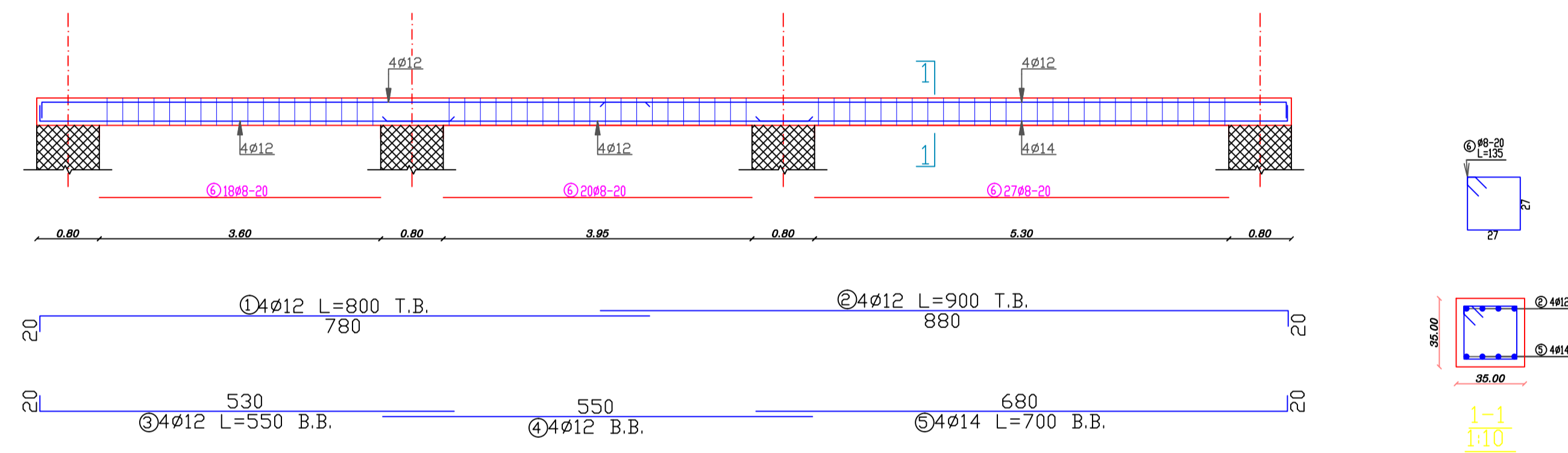
Beam : 11  
Scale 1:25



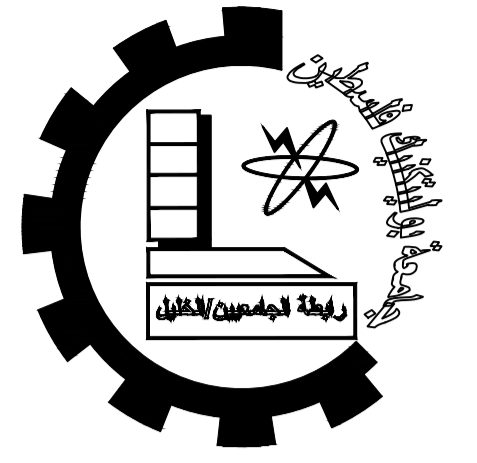
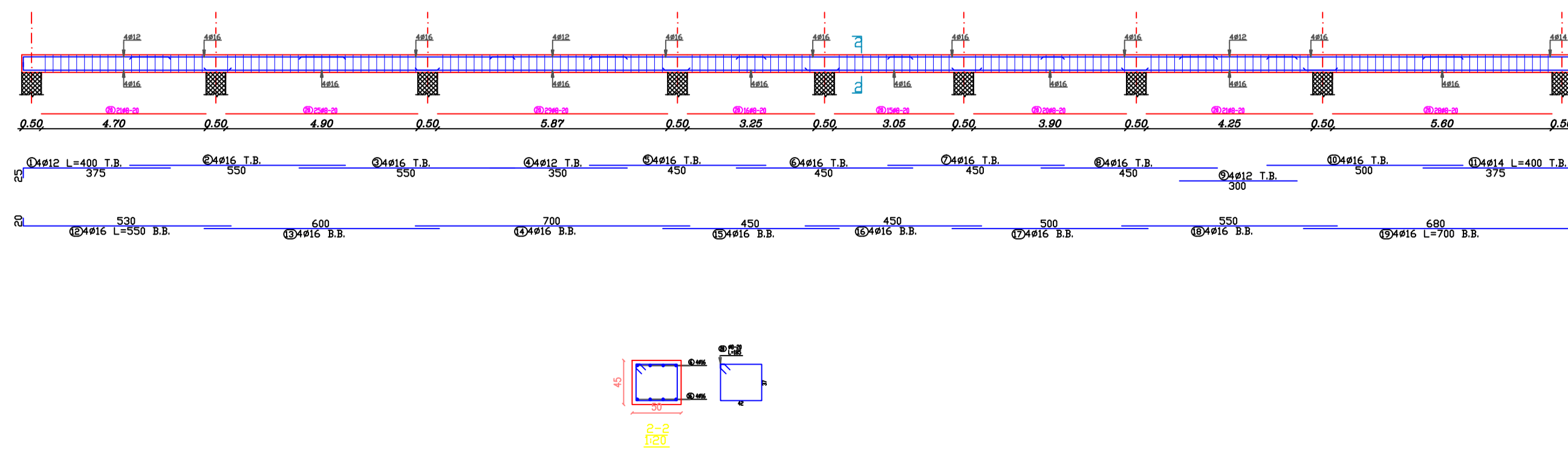
Beam : 12  
Scale 1:25



Beam : 13  
Scale 1:25



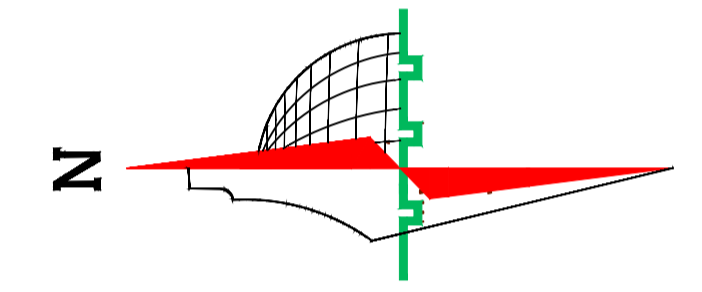
Beam : 14  
Scale 1:50



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Civil Engineering Department  
Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

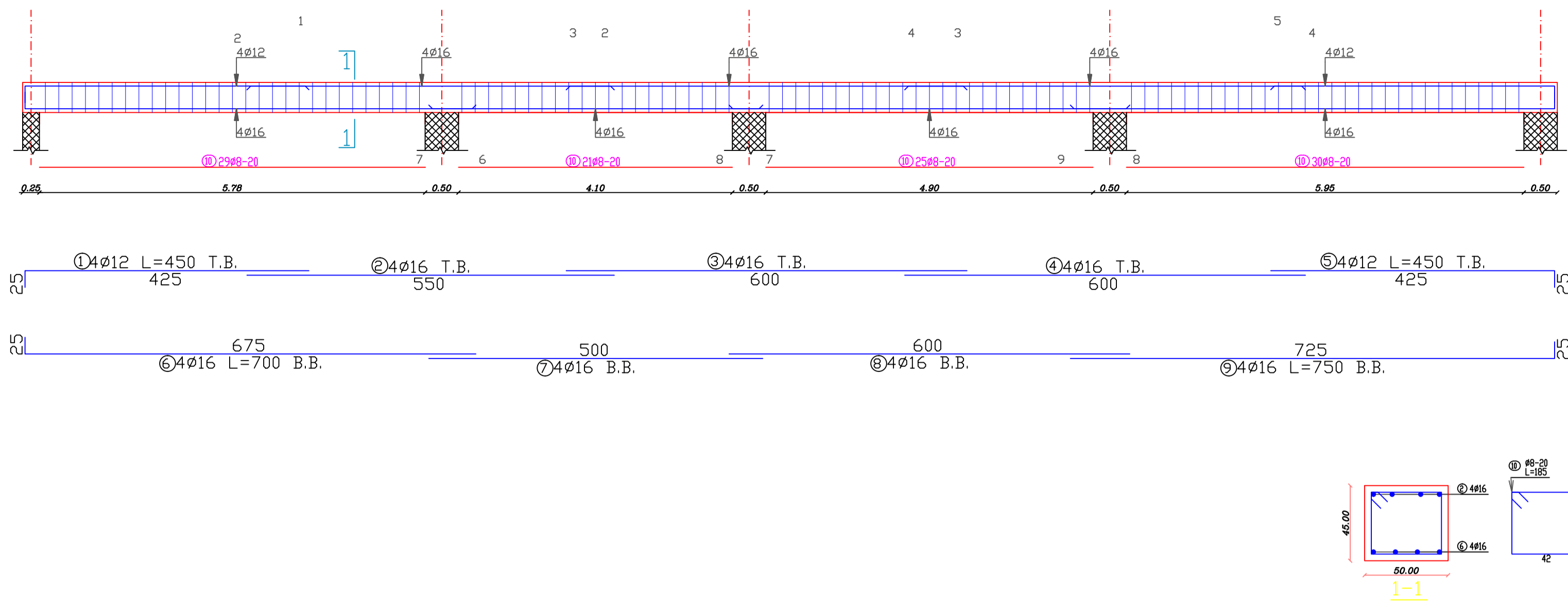
Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S16	21/1/2024

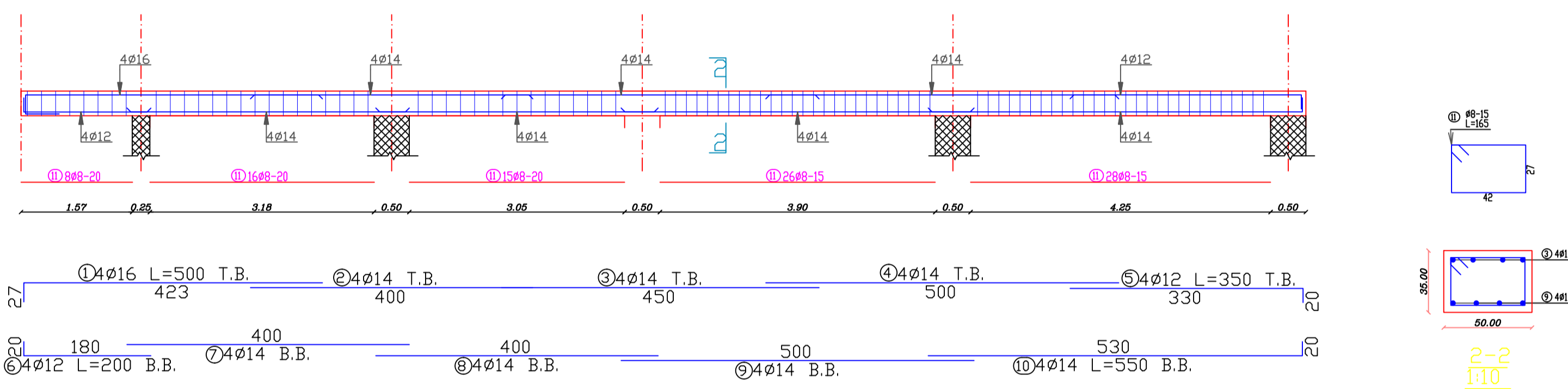
Beam : 15

Scale 1:25



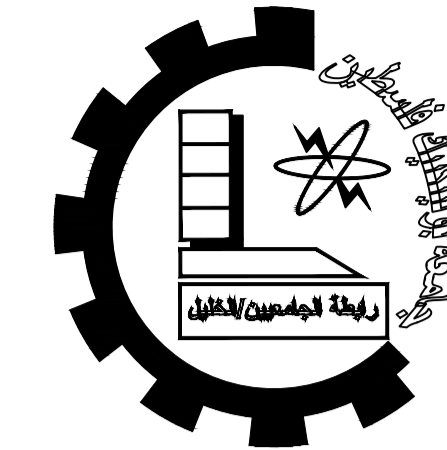
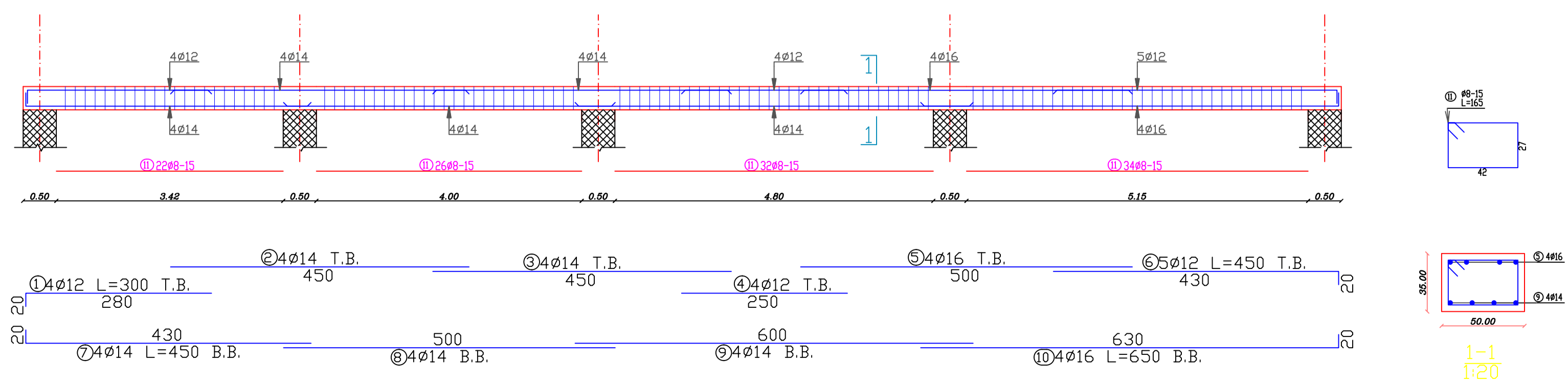
Beam : 16

Scale 1:50



Beam : 17

Scale 1:50



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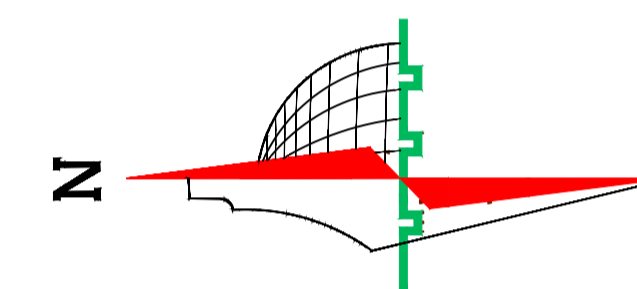
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Supervisor

Dr.Maher Amro.

Done by :

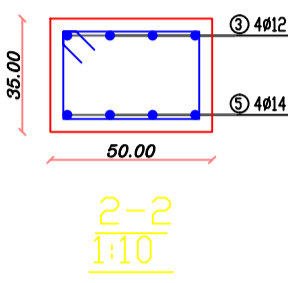
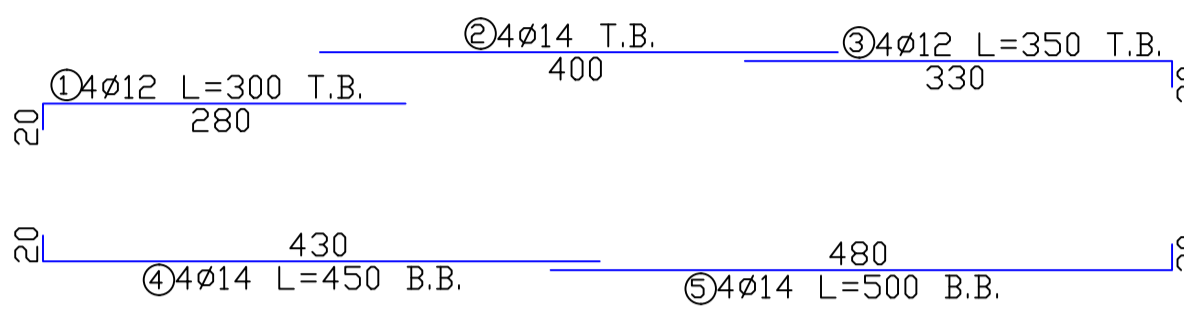
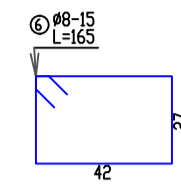
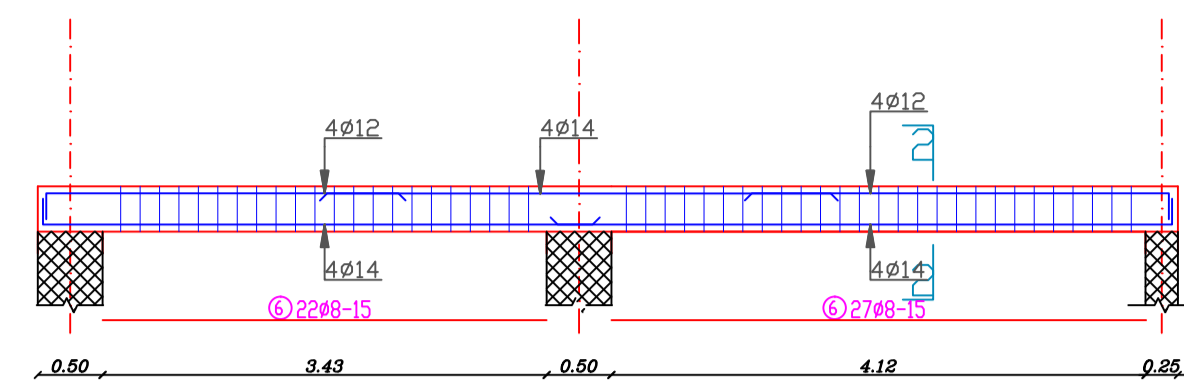
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE No. of DATE

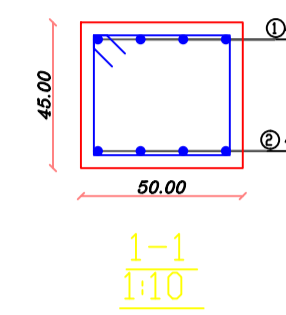
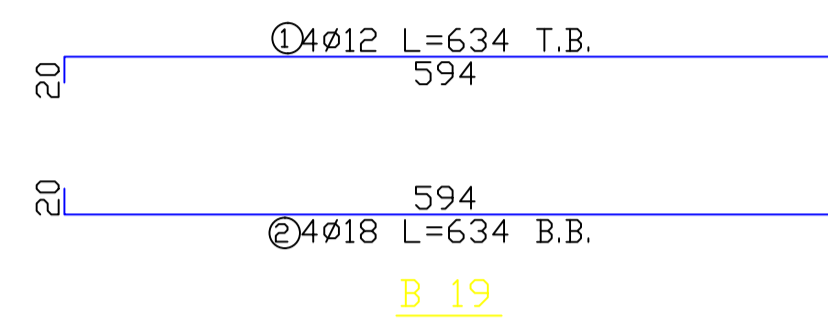
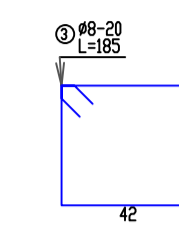
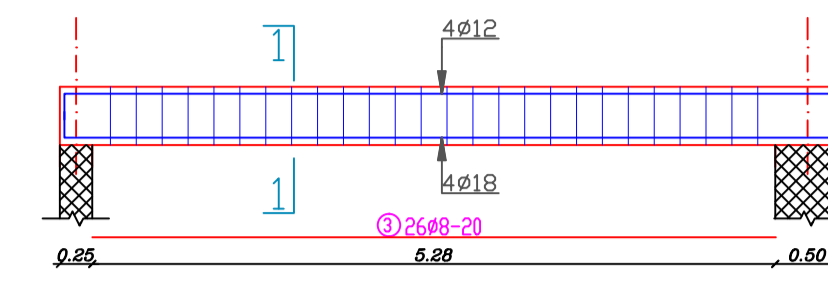
1/250 S17 21/1/2024



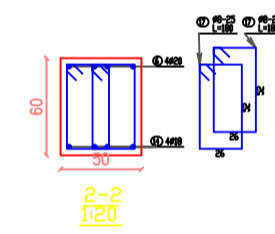
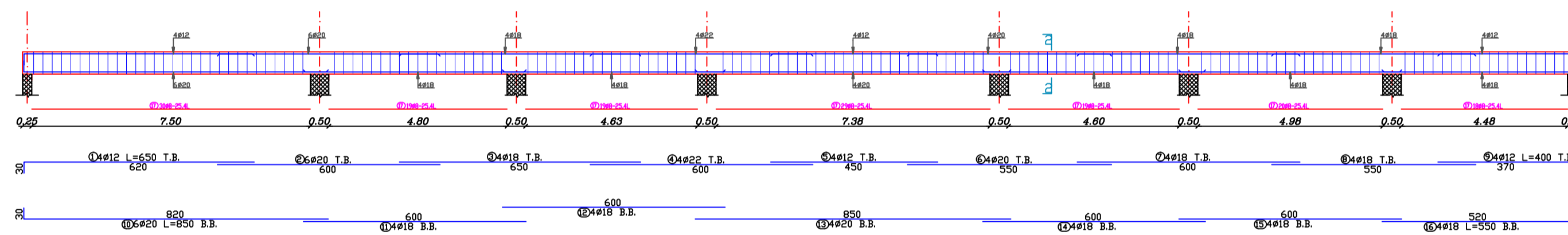
Beam : 18  
Scale 1:25



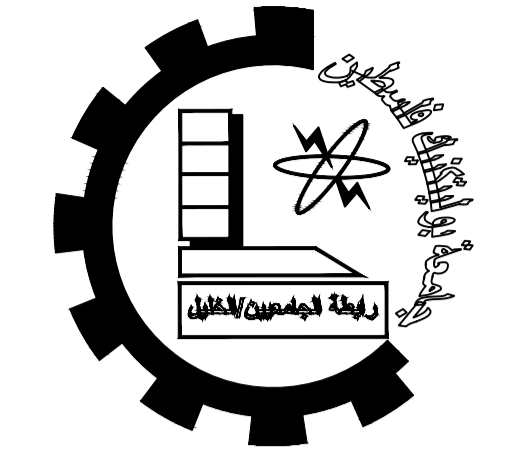
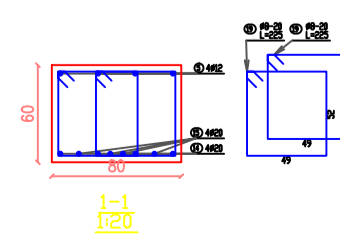
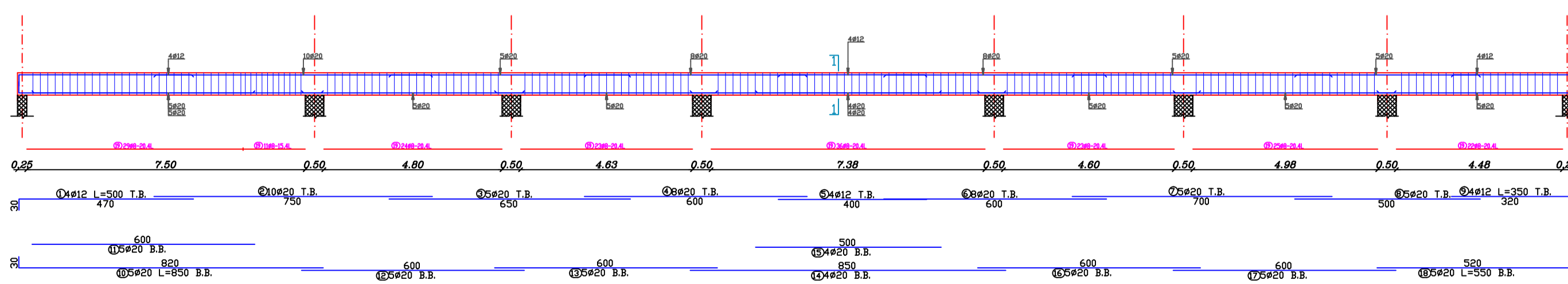
Beam : 19  
Scale 1:25



Beam : 20  
Scale 1:50



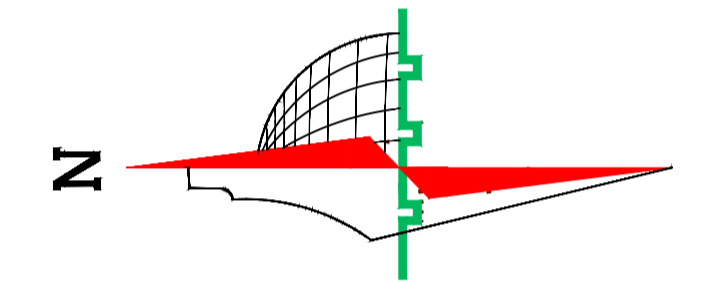
Beam : 21  
Scale 1:50



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Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

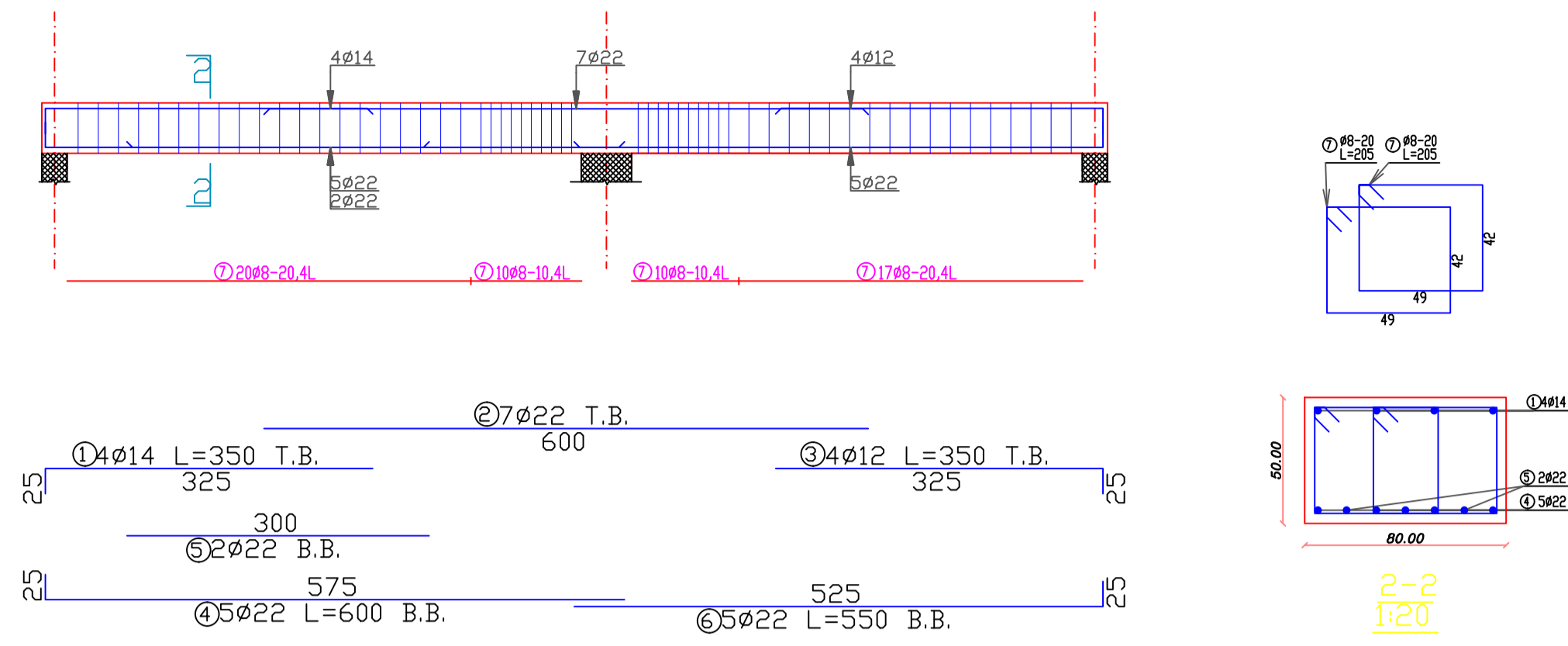
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

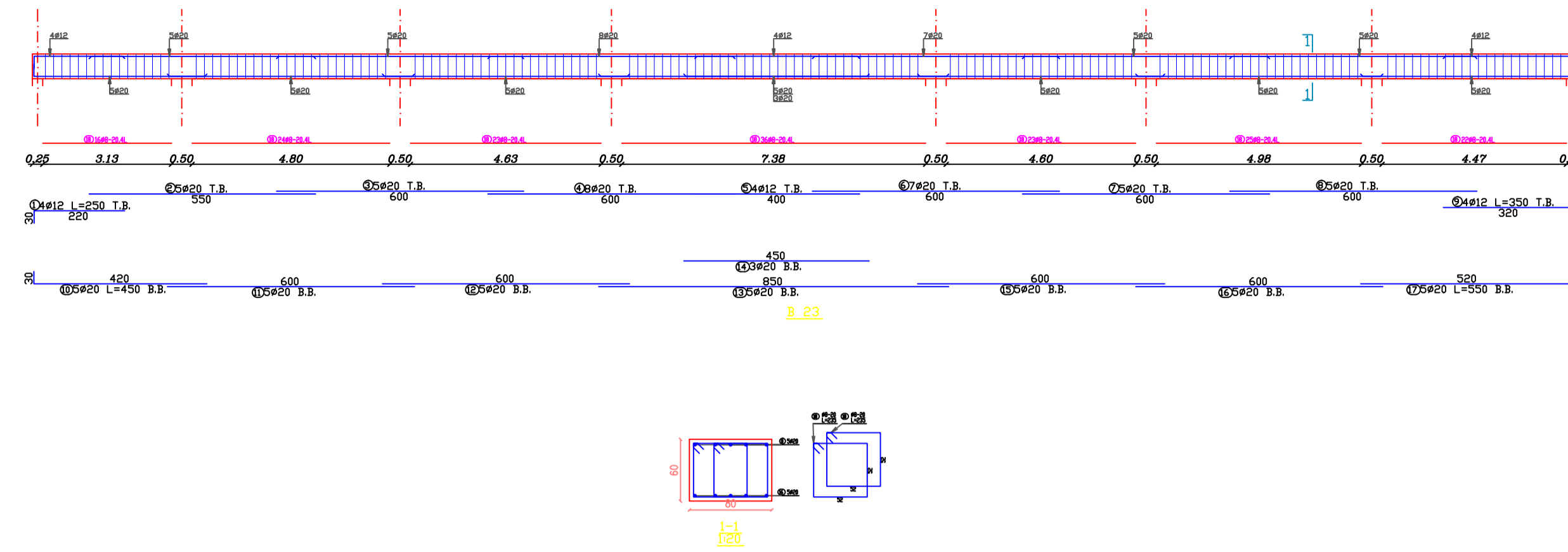
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S18	21/1/2024

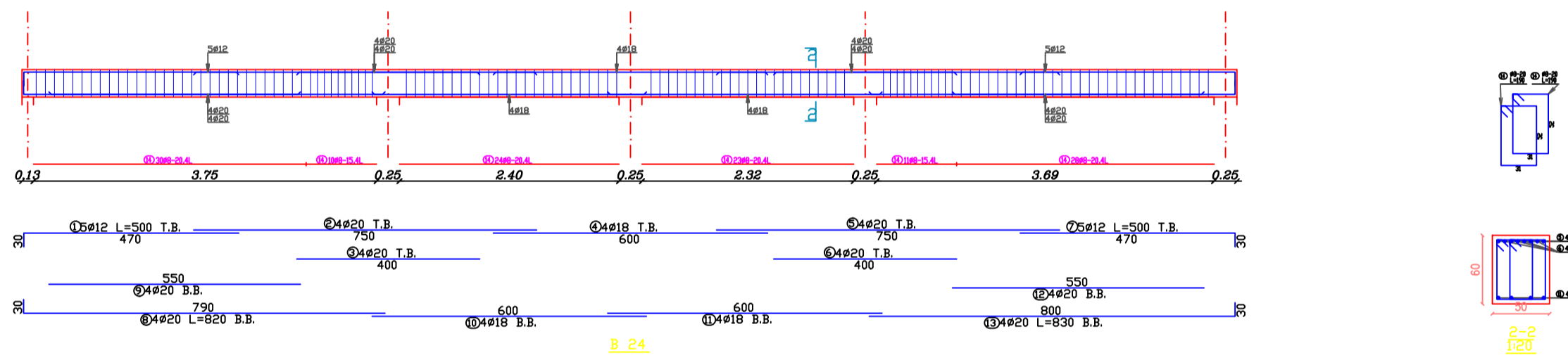
Beam : 22  
Scale 1:50



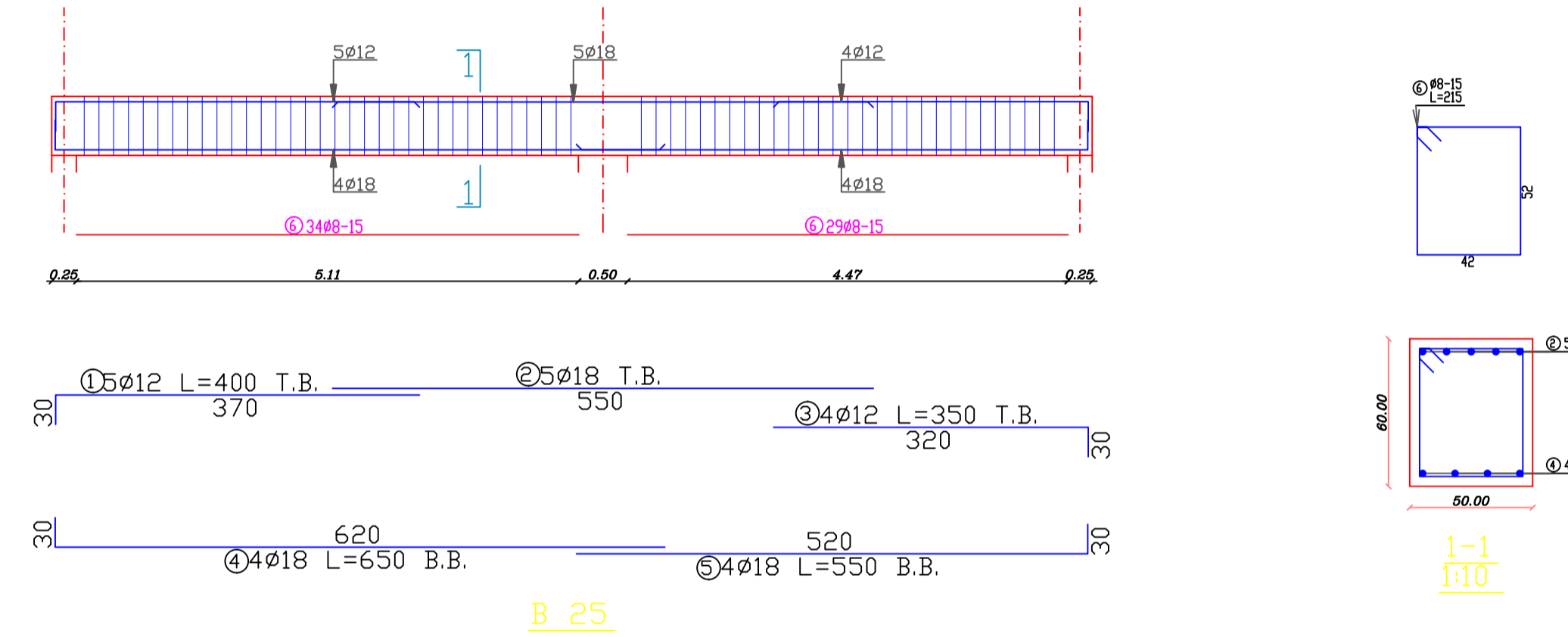
Beam : 23  
Scale 1:50



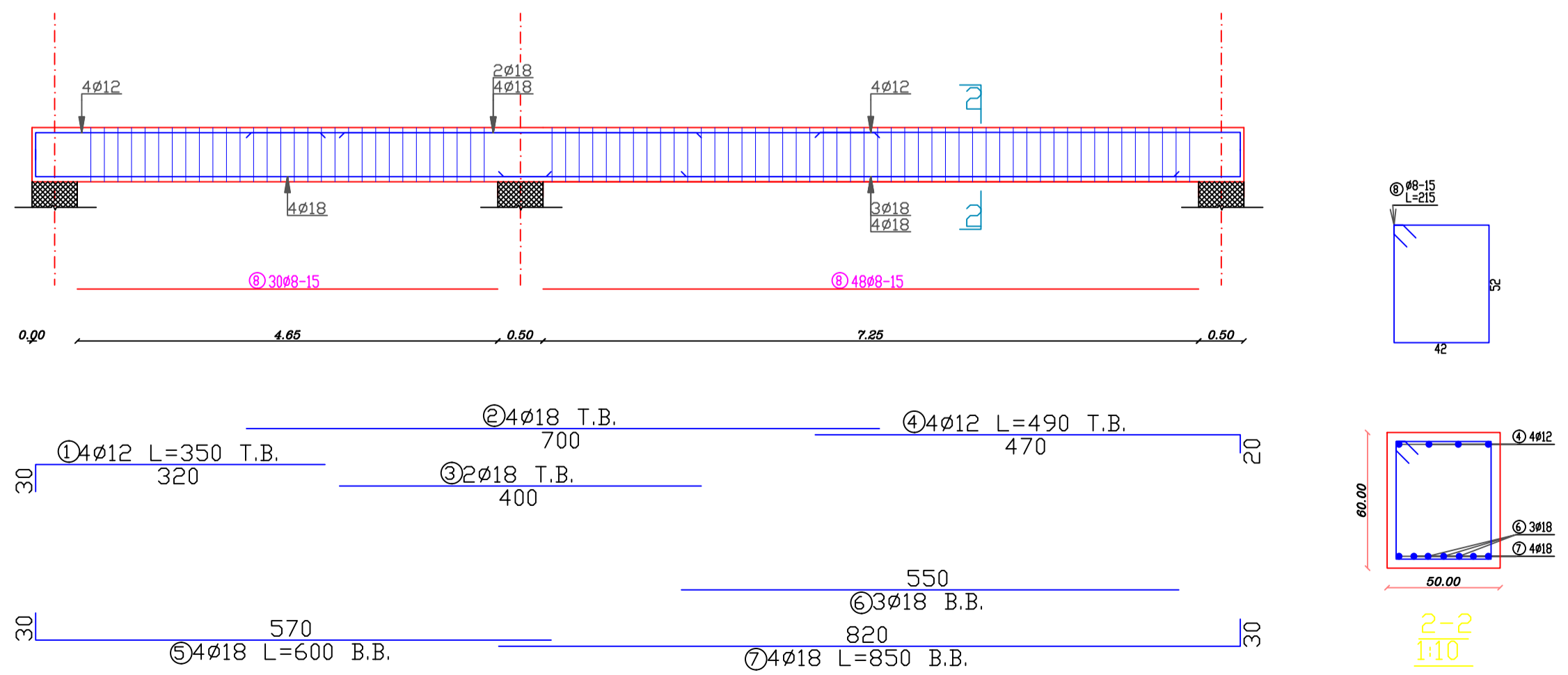
Beam : 24  
Scale 1:50



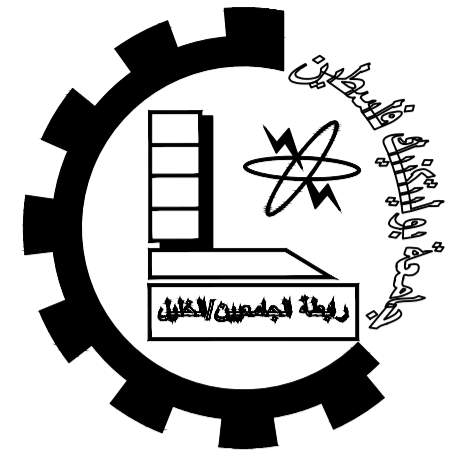
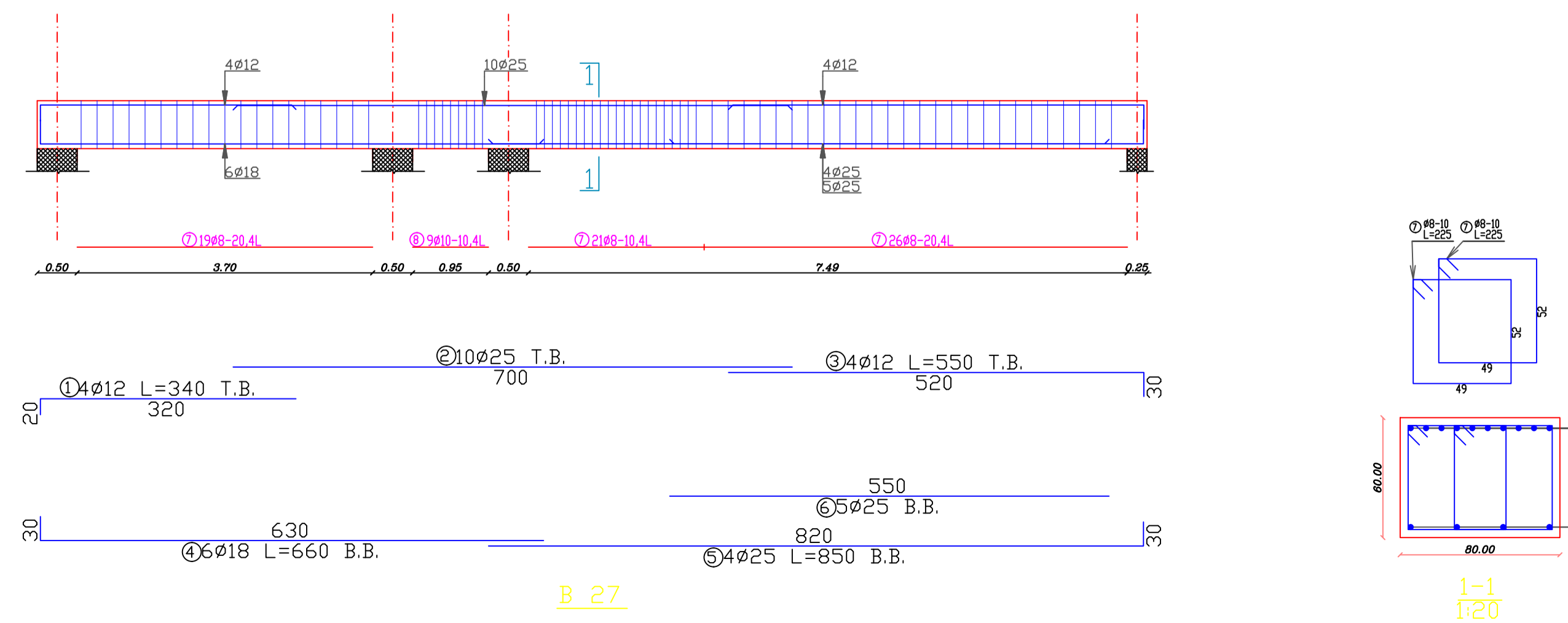
Beam : 25  
Scale 1:25



Beam : 26  
Scale 1:25



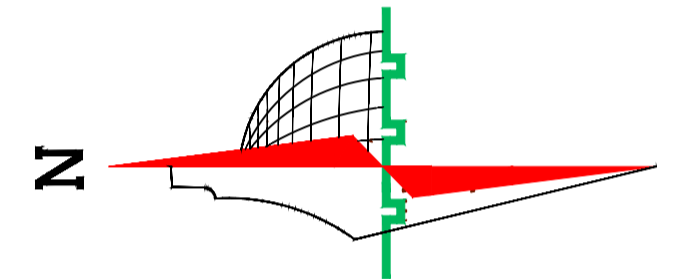
Beam : 27  
Scale 1:25



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Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

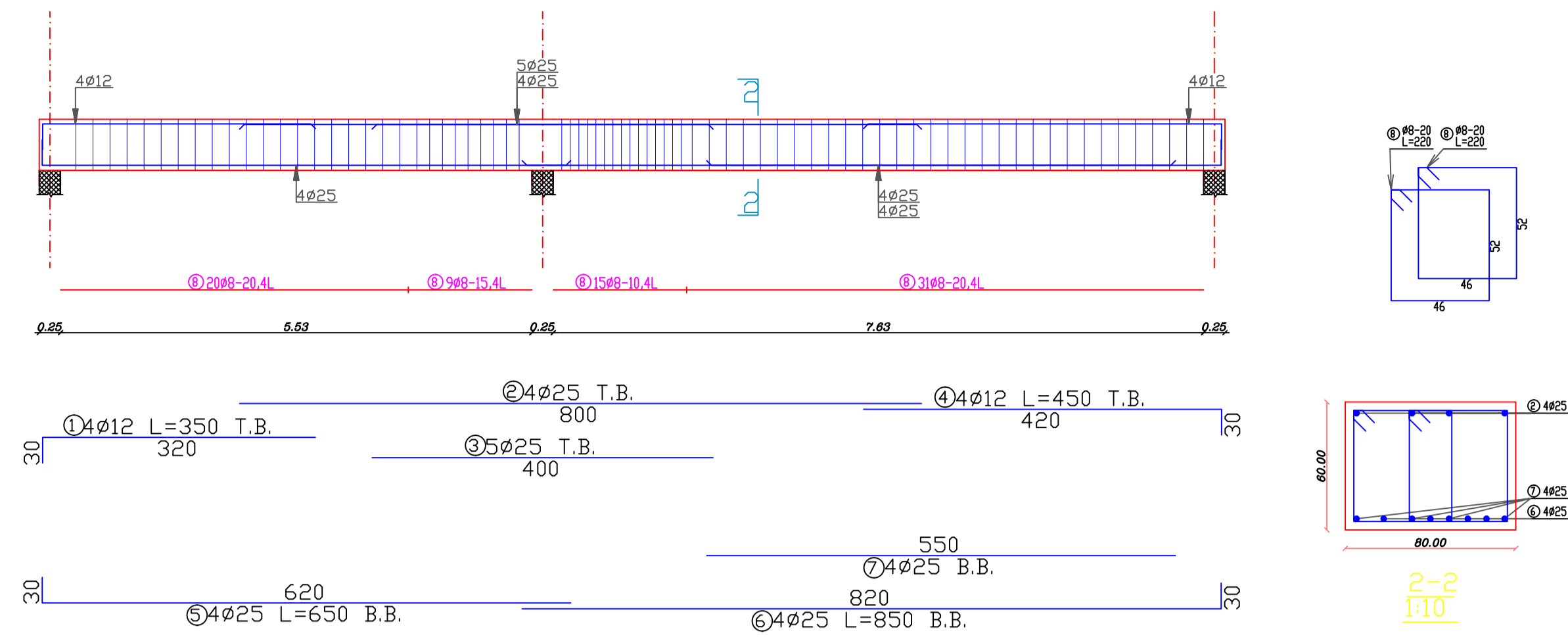
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

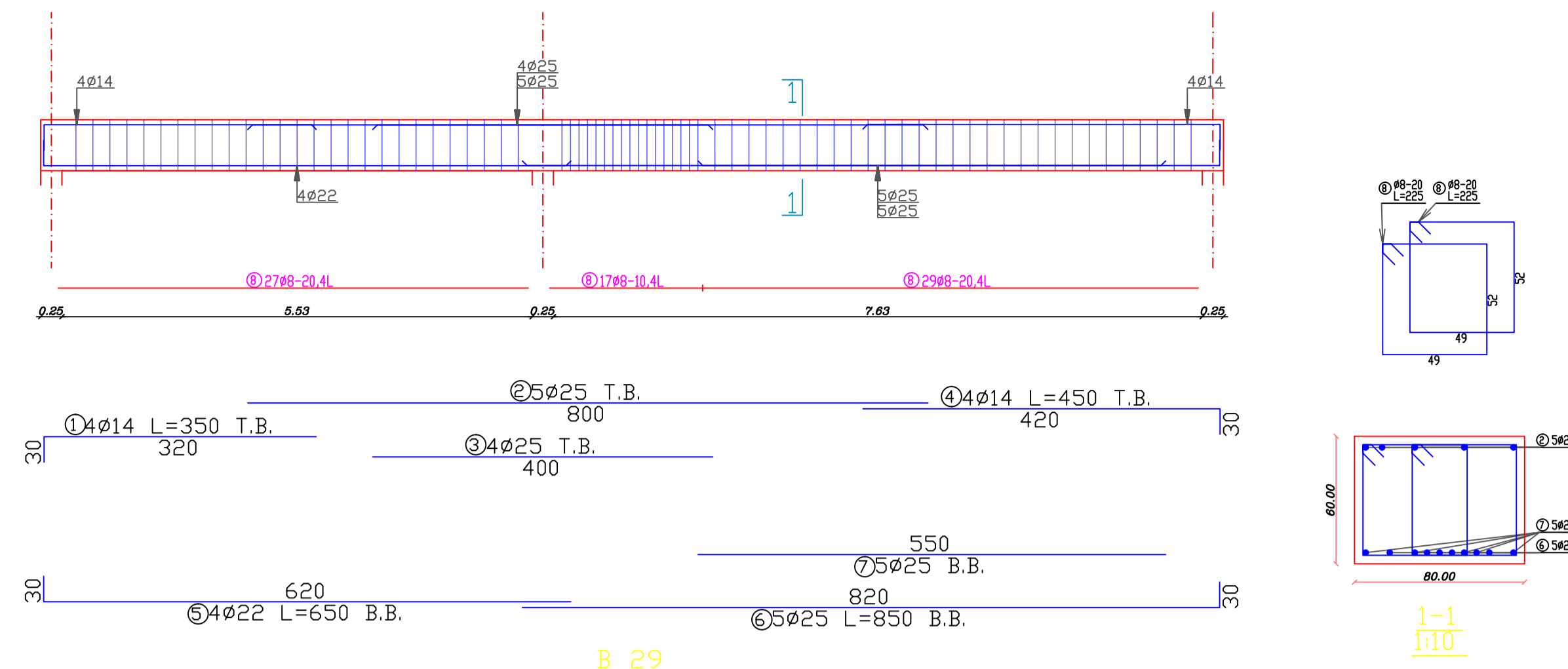
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S19	21/1/2024

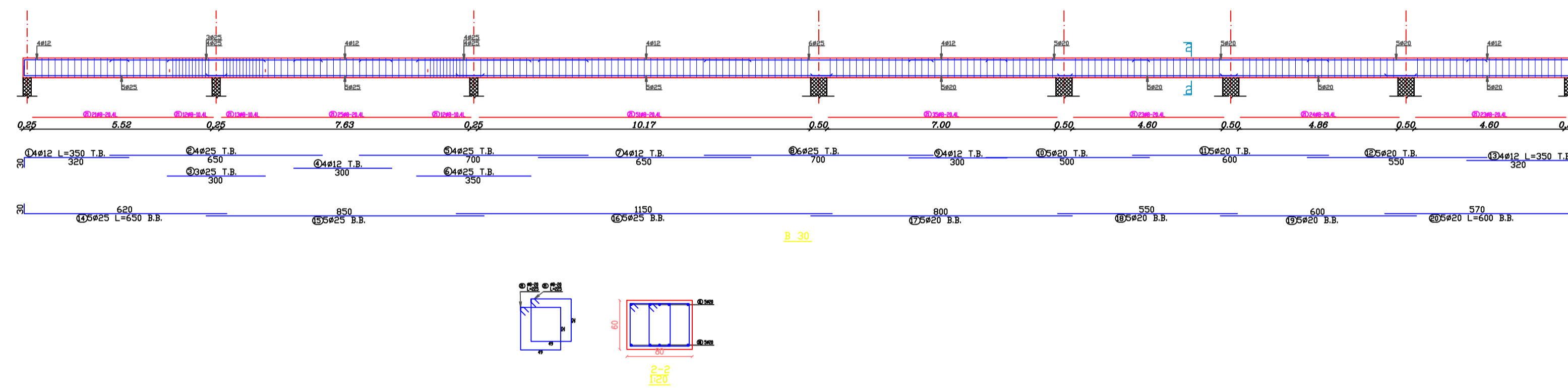
Beam : 28  
Scale 1:50



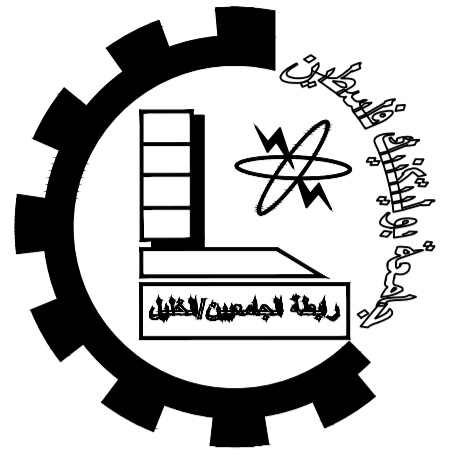
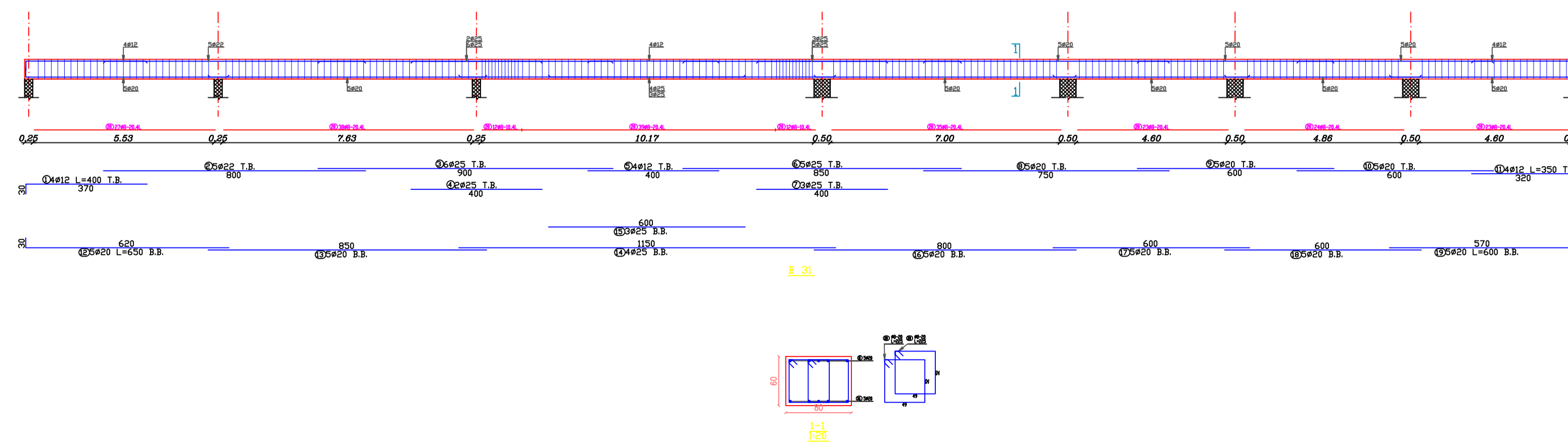
Beam : 29  
Scale 1:25



Beam : 30  
Scale 1:50



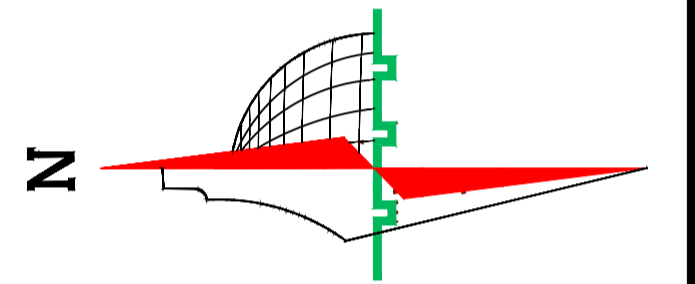
Beam : 31  
Scale 1:50



Palestine Polytechnic University  
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Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

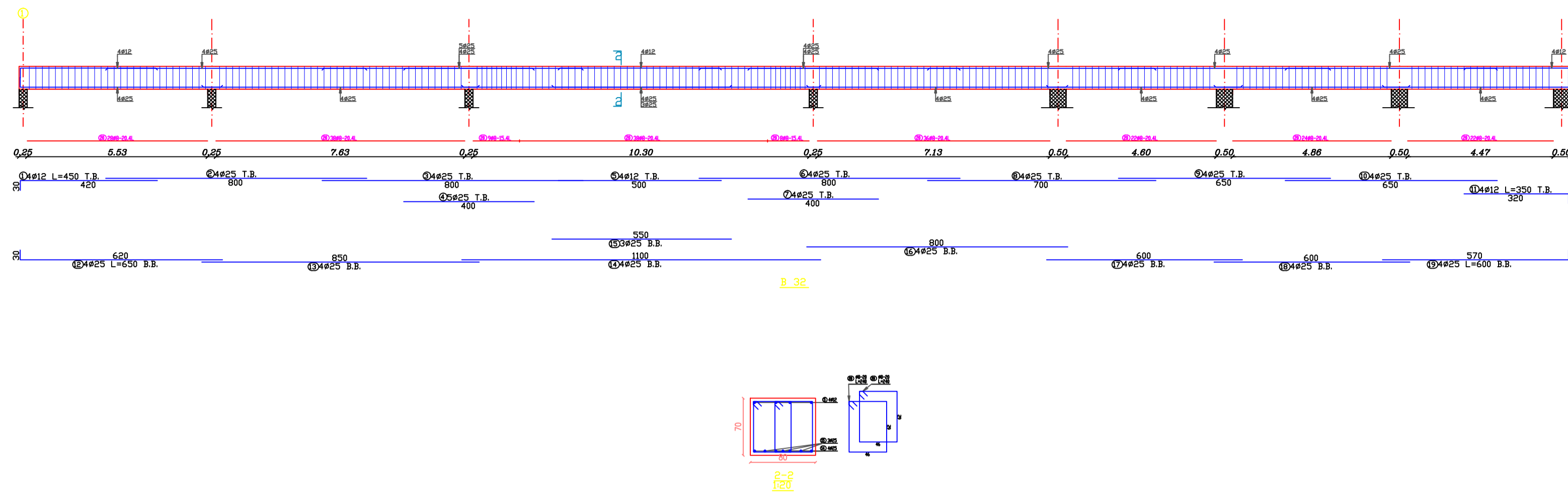
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

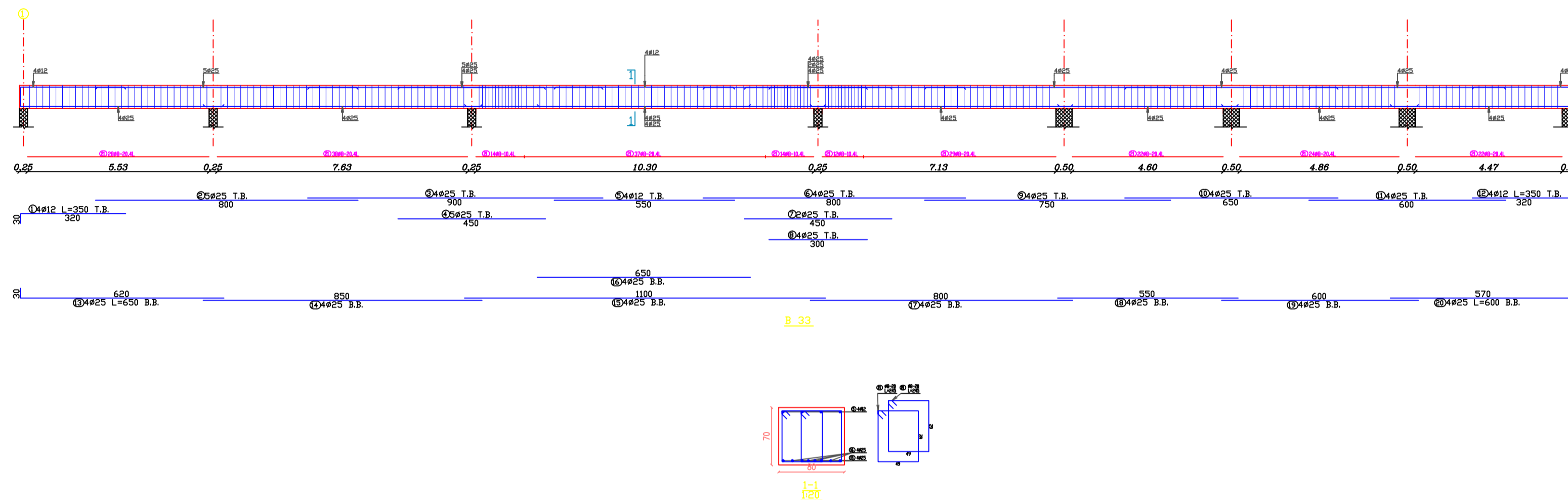
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S20	21/1/2024

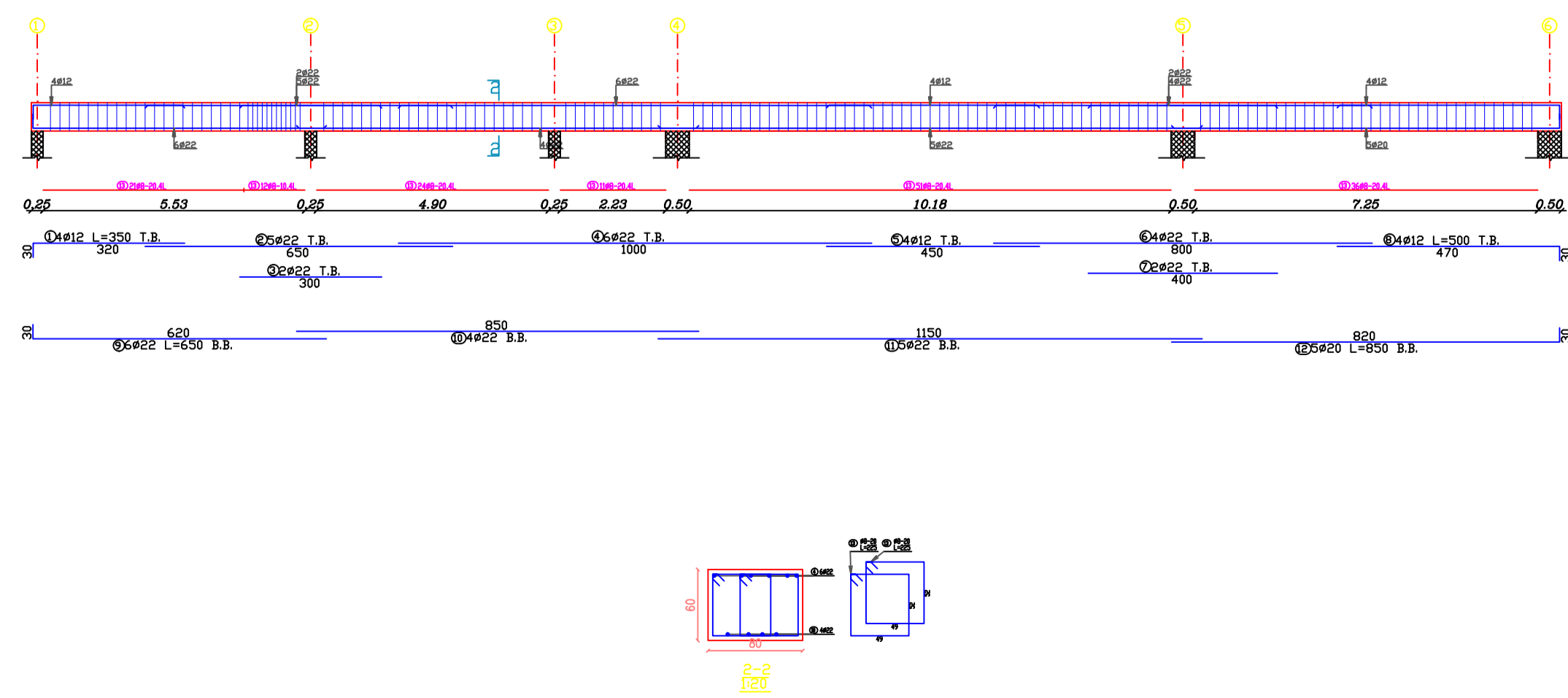
Beam : 32  
Scale 1:50



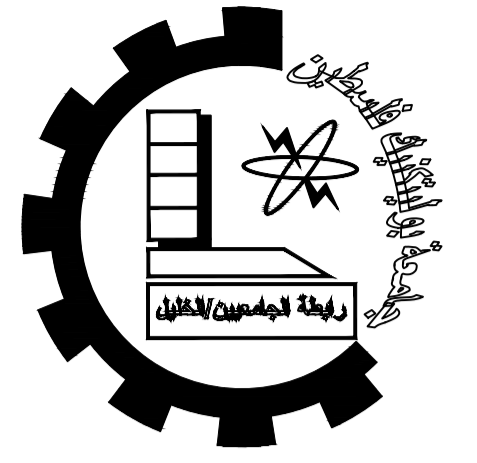
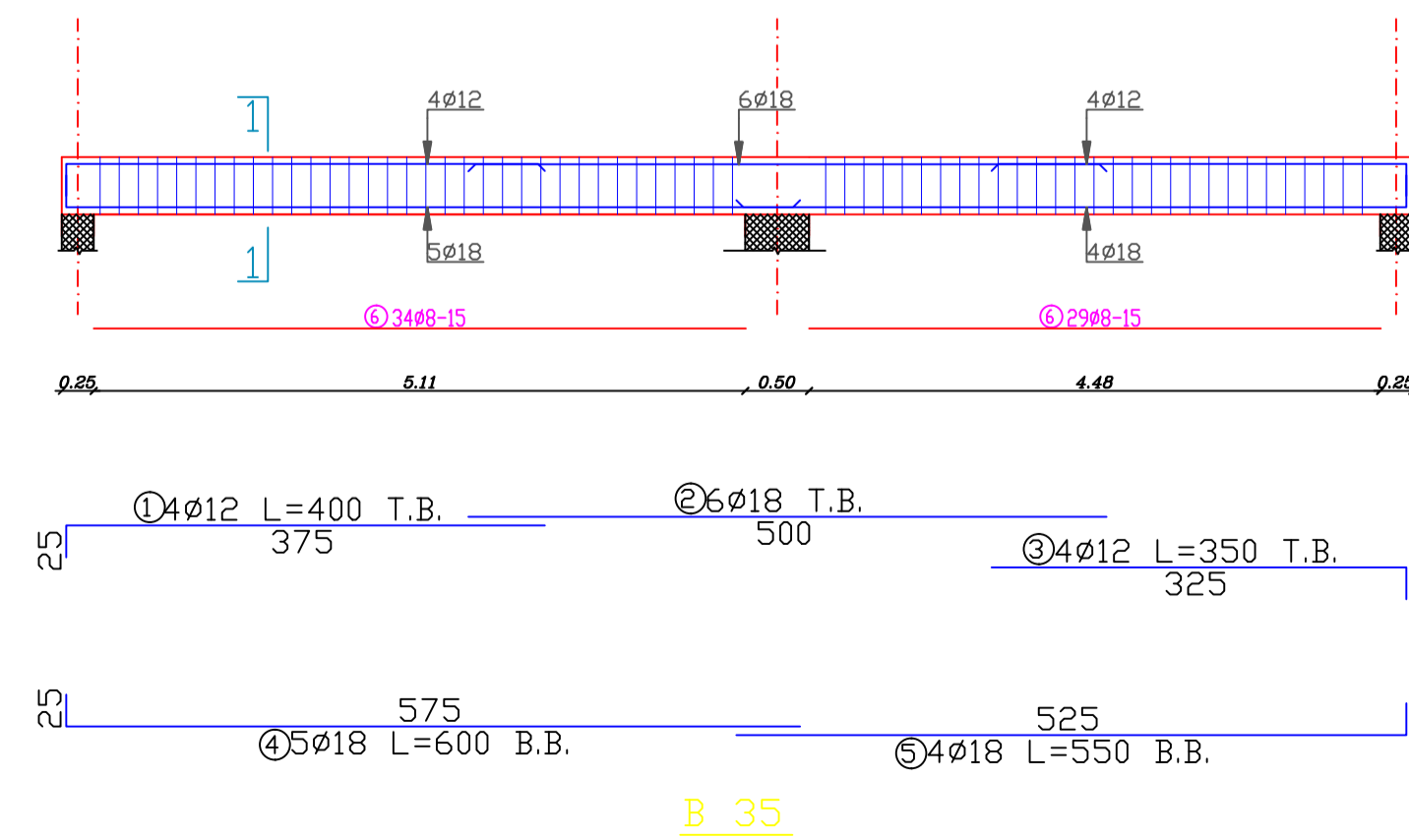
Beam : 33  
Scale 1:50



Beam : 34  
Scale 1:50



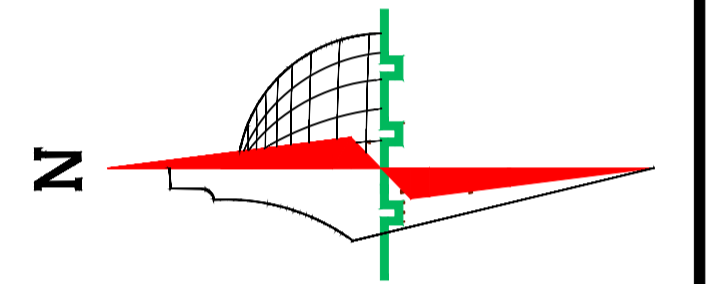
Beam : 35  
Scale 1:25



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- Isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

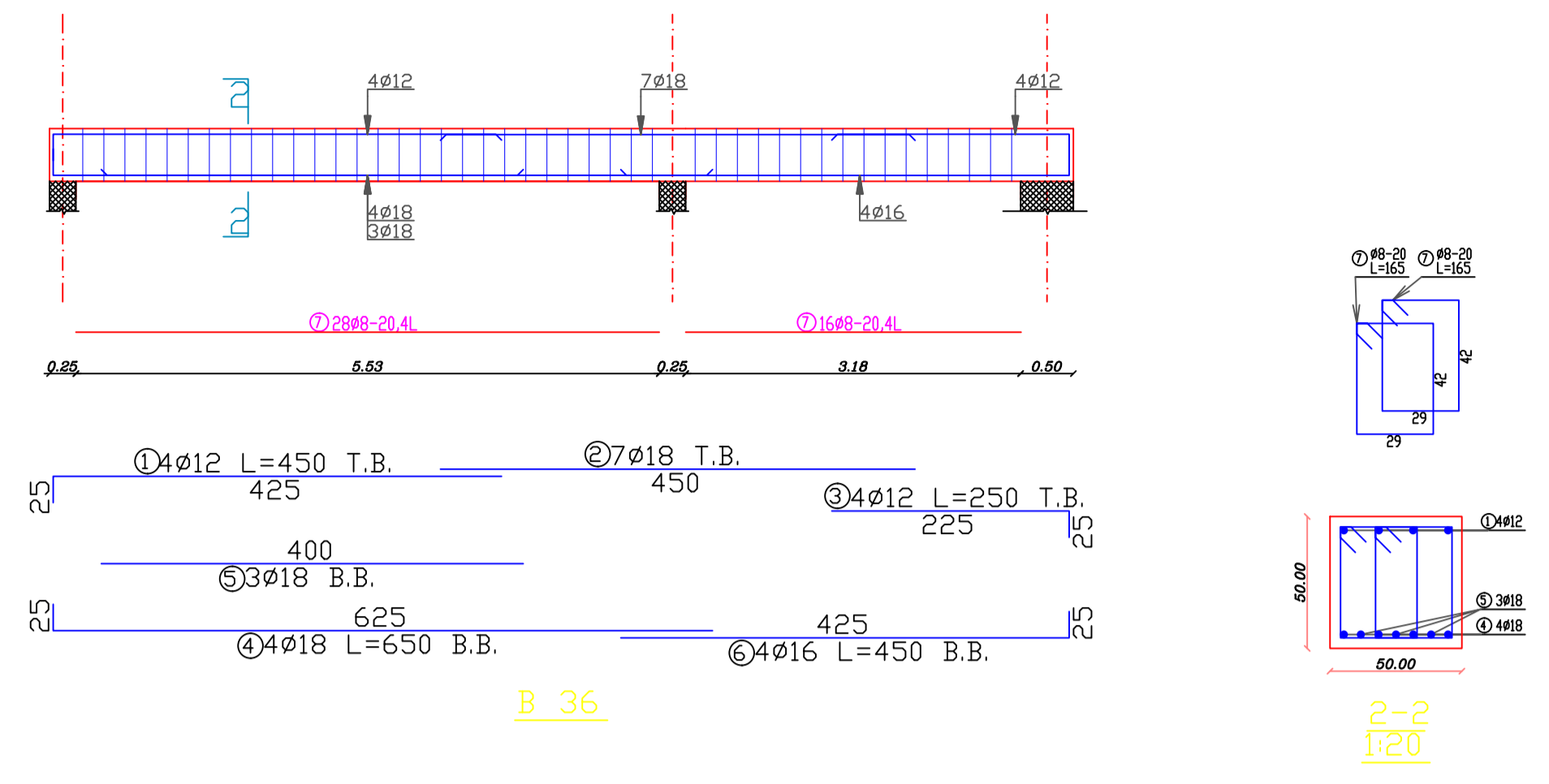
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

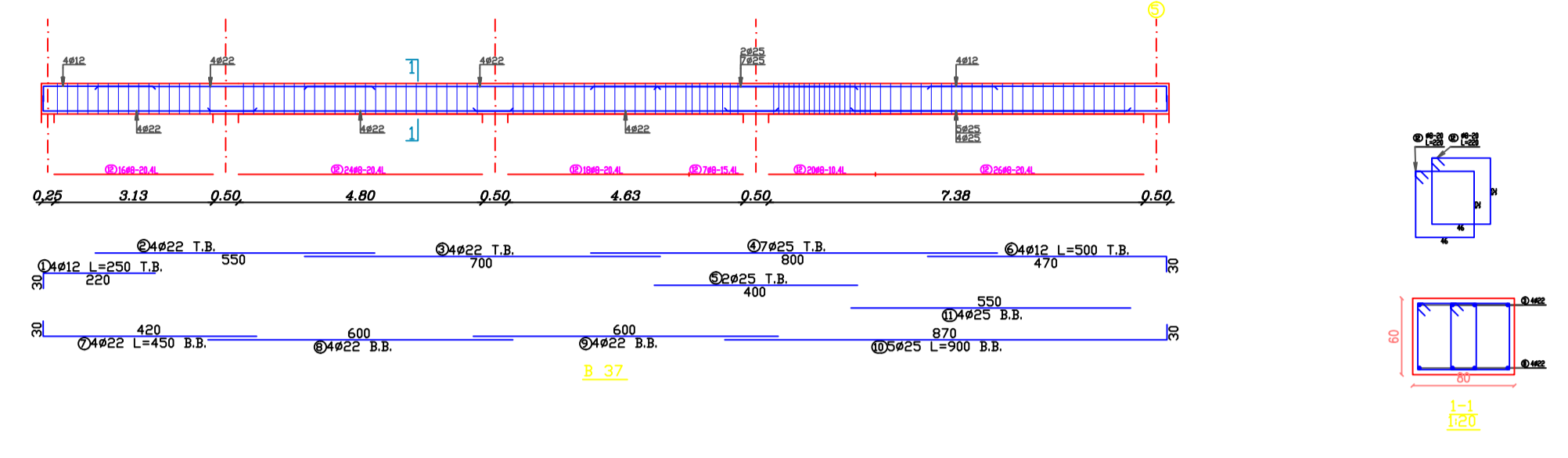
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S21	21/1/2024

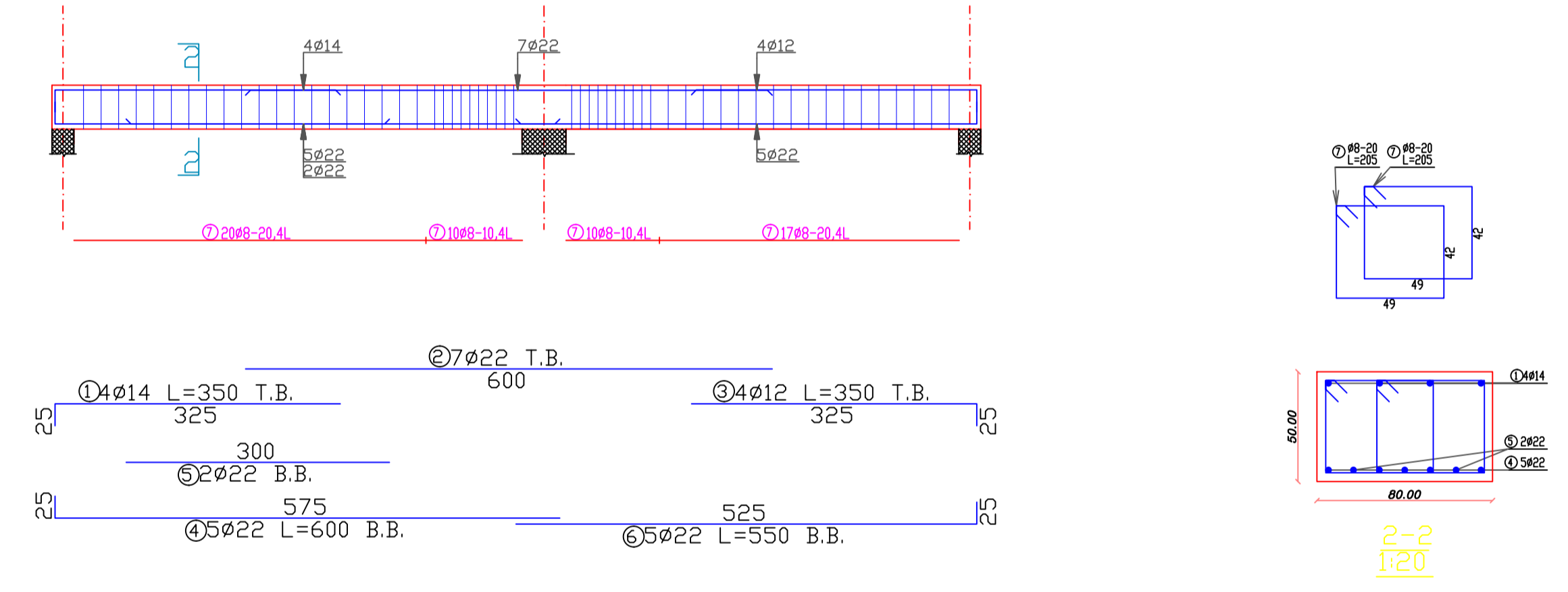
Beam : 36  
Scale 1:25



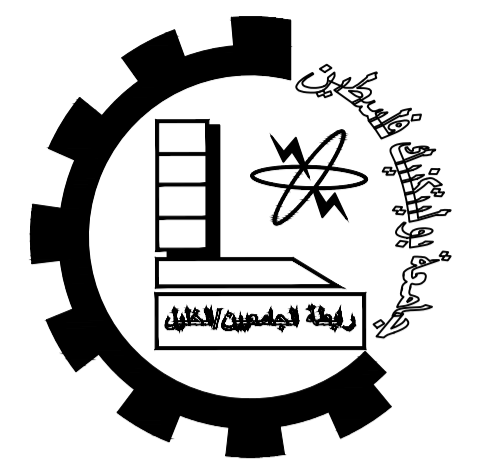
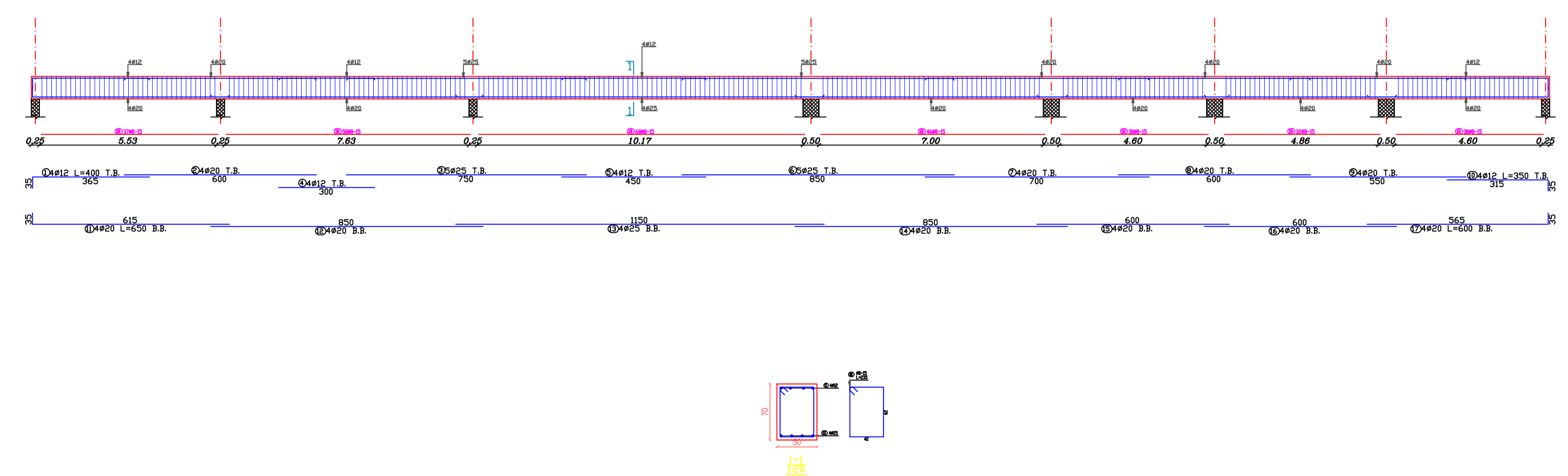
Beam : 37  
Scale 1:25



Beam : 38  
Scale 1:25



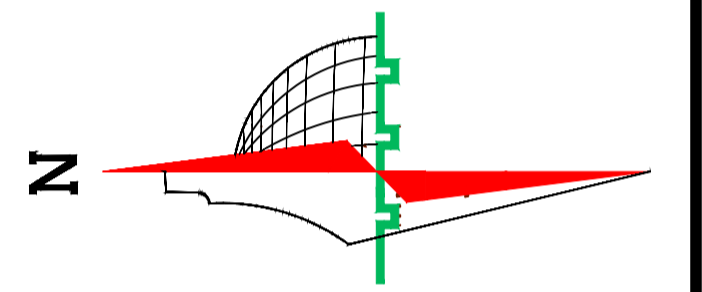
Beam : 39  
Scale 1:50



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

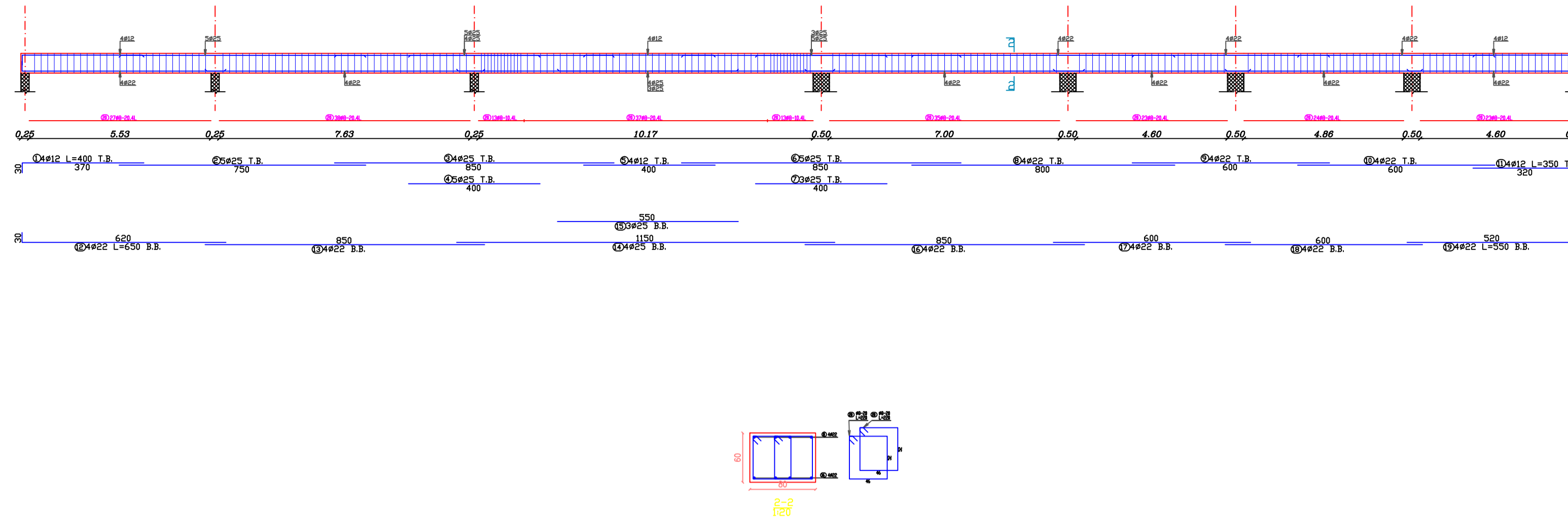
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

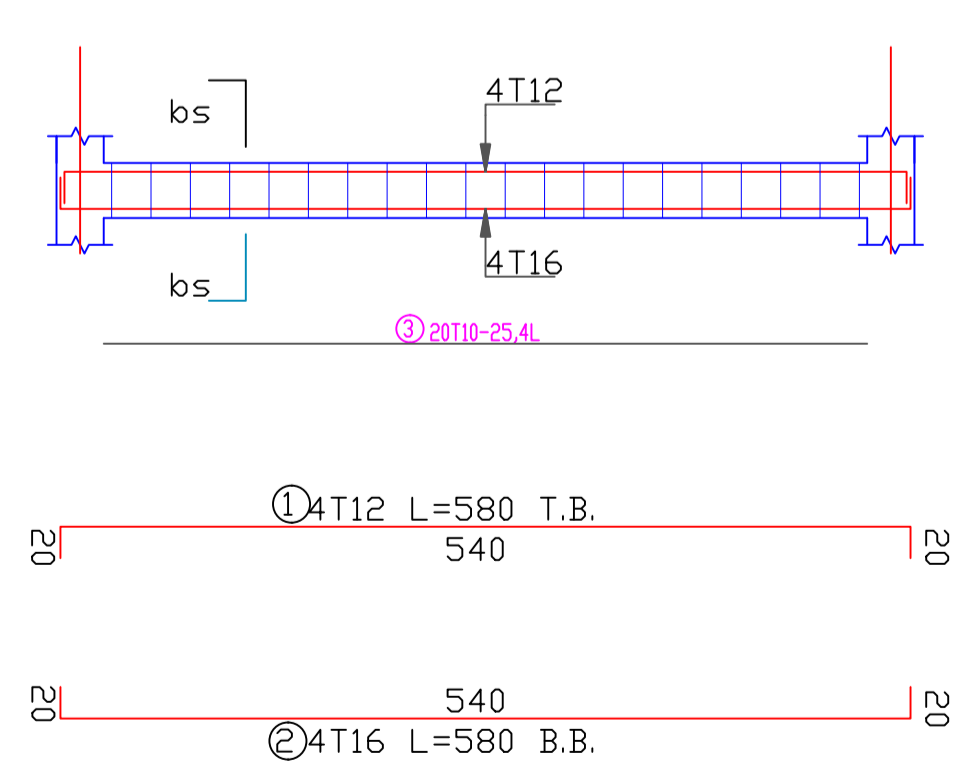
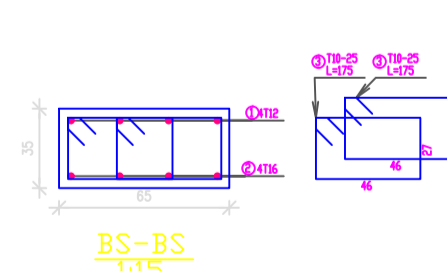
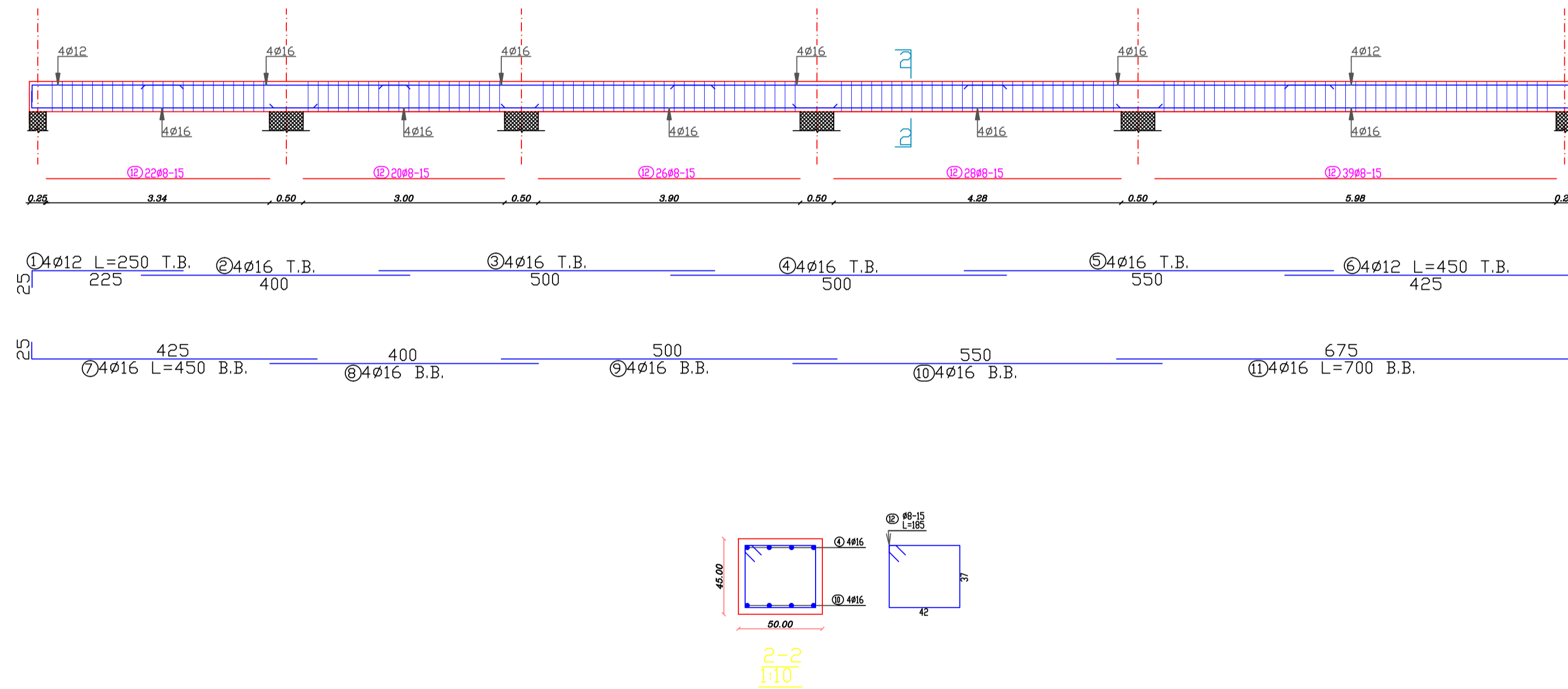
Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S22	21/1/2024

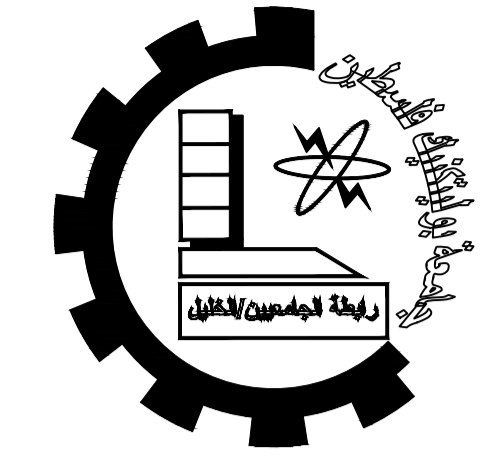
Beam : 40  
Scale 1:50



Beam : 41  
Scale 1:25



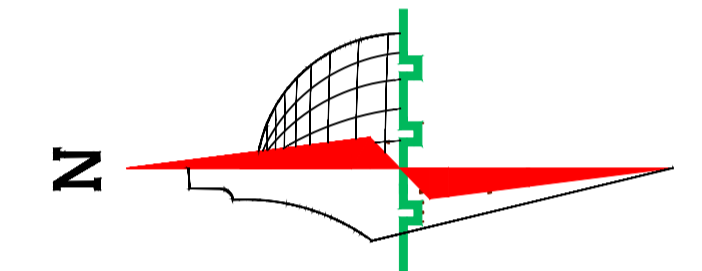
Beam: 42



Palestine Polytechnic University  
College of Engineering  
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Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

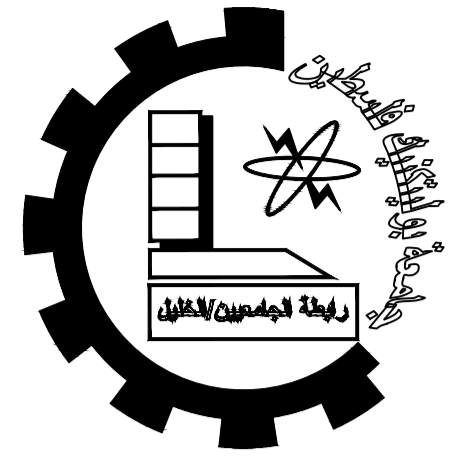
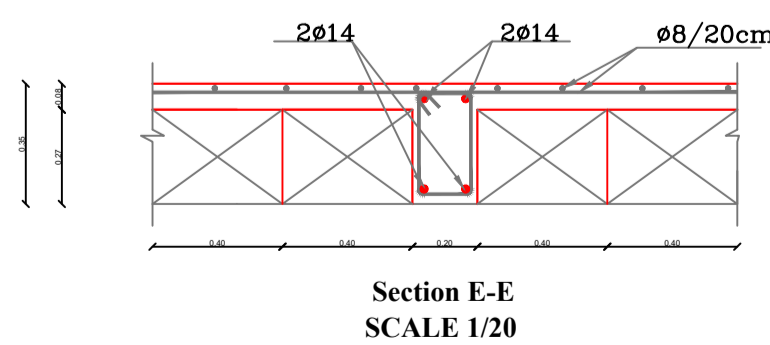
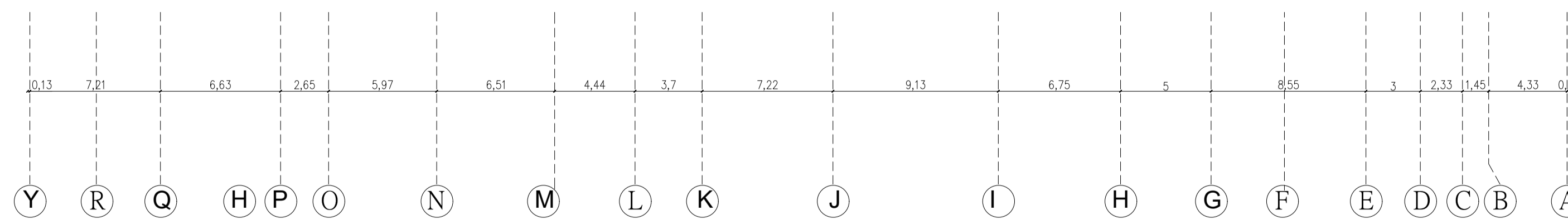
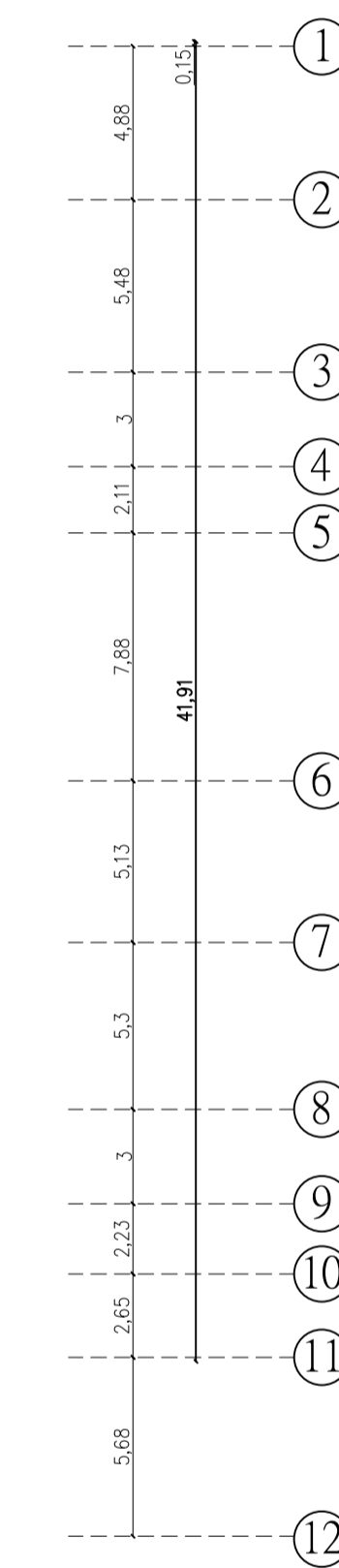
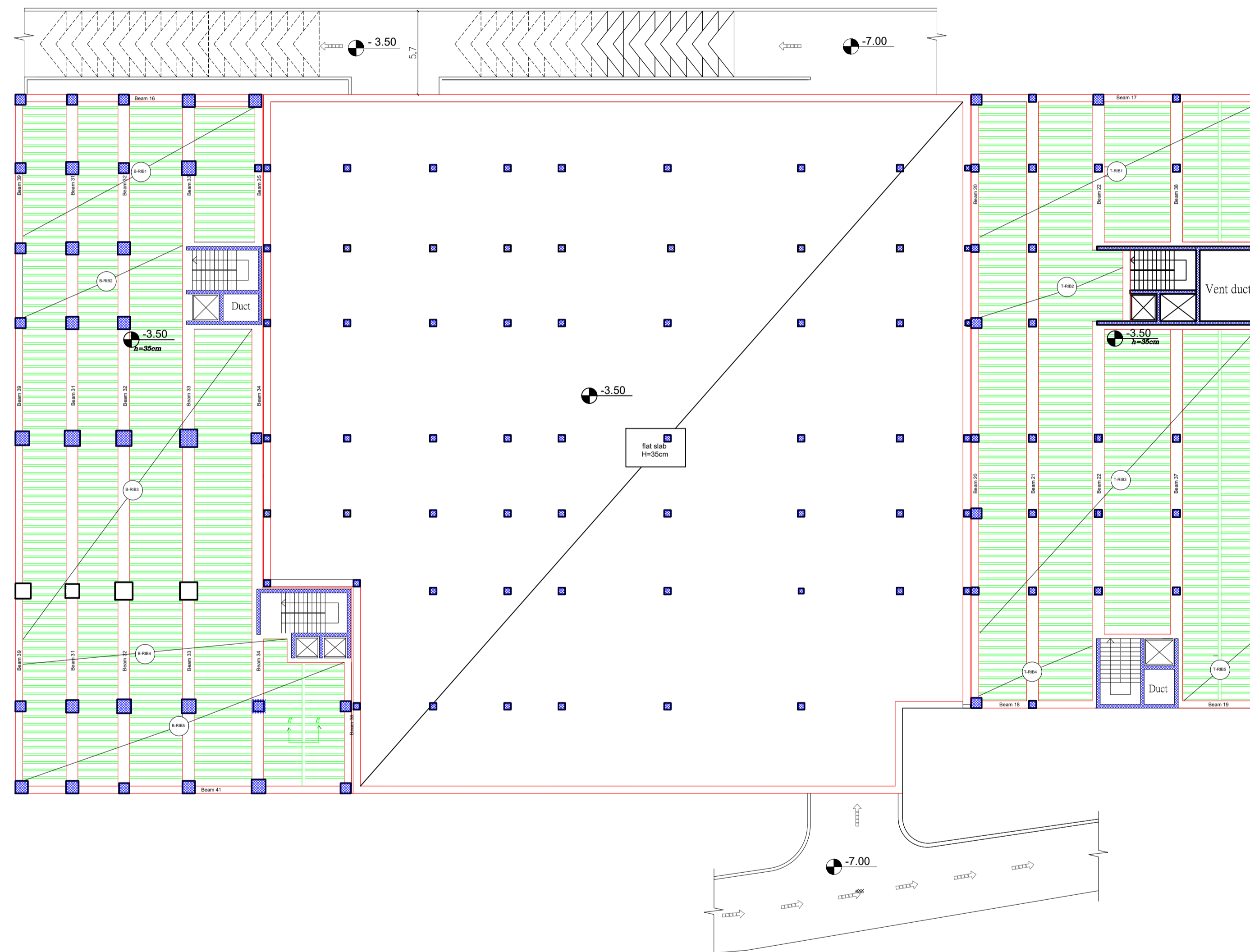
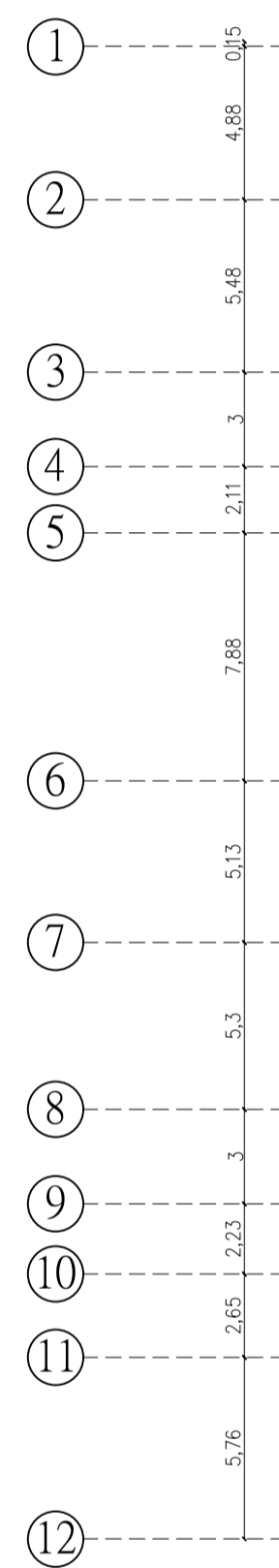
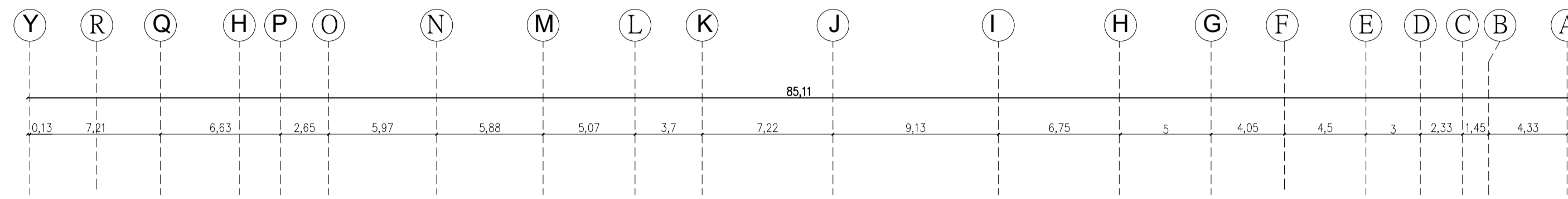
DRAWING TITLE :

Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S23	21/1/2024

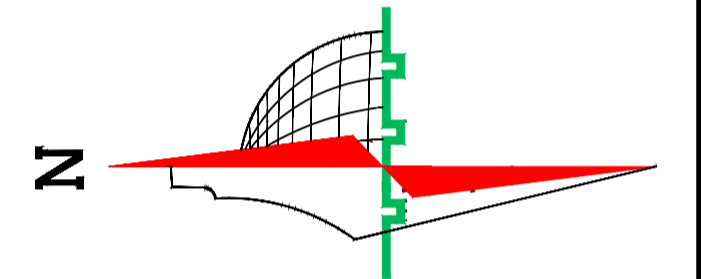
Basement Floor2 Slab Distribution of Ribs  
Scale 1 : 250



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Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Basement Floor Slab  
Distribution of Ribs

Supervisor

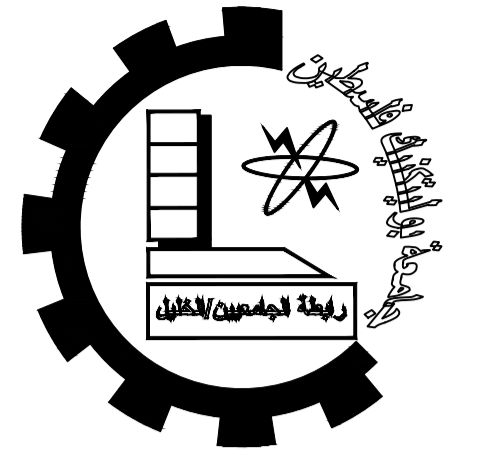
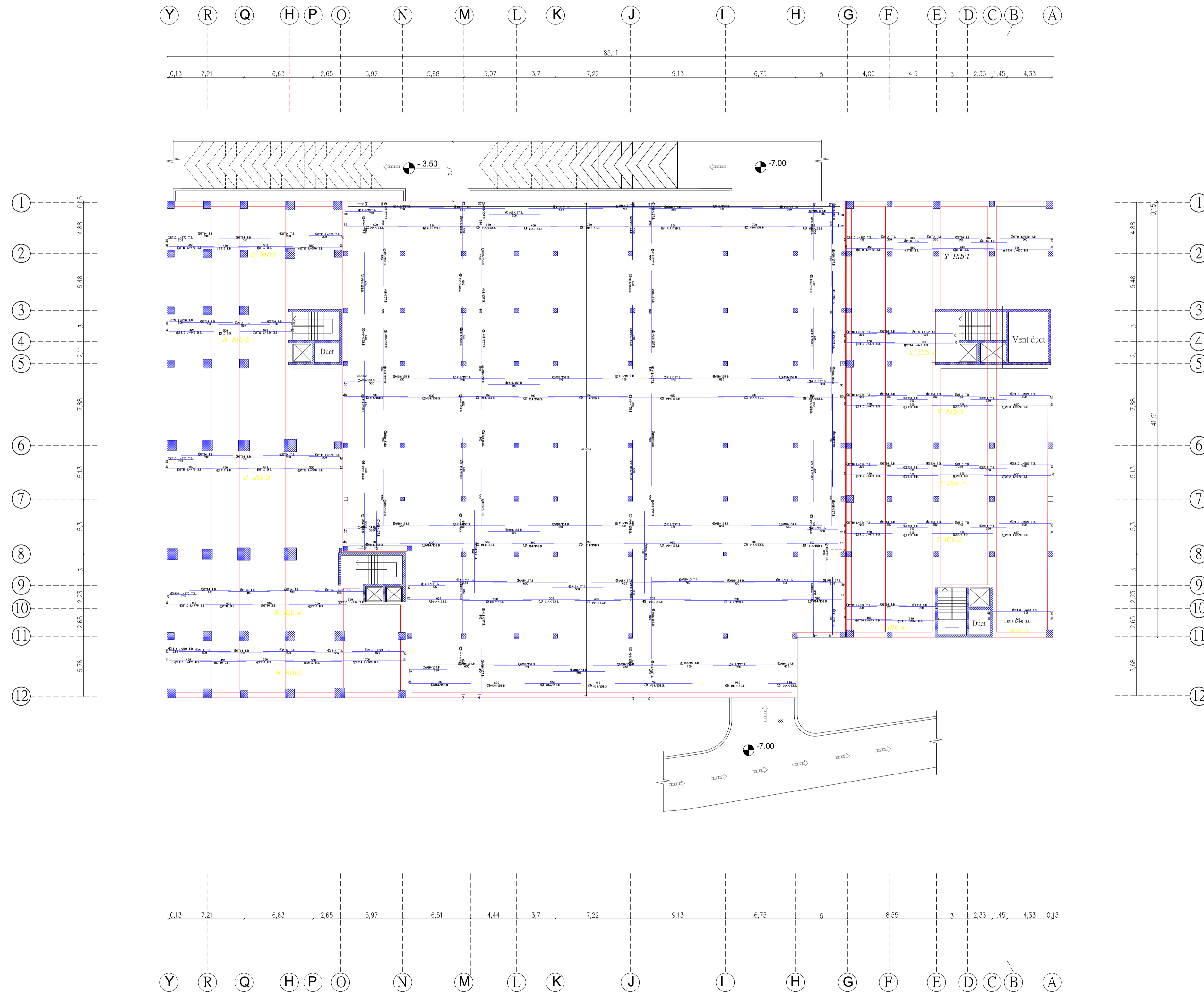
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S1	21/1/2024

Basement Floor2 Slab Reinforcement  
Scale 1 : 250



Palestine Polytechnic University

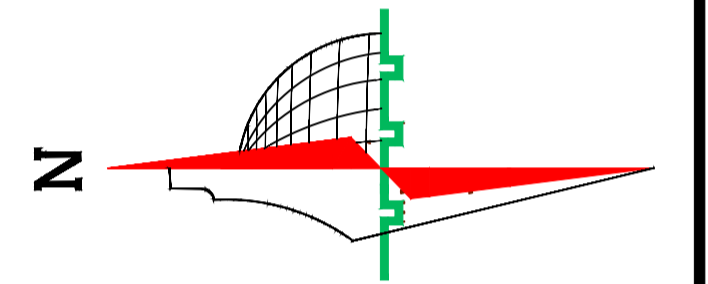
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

Basement Floor Slab  
Reinforcement

Supervisor

Dr.Maher Amro.

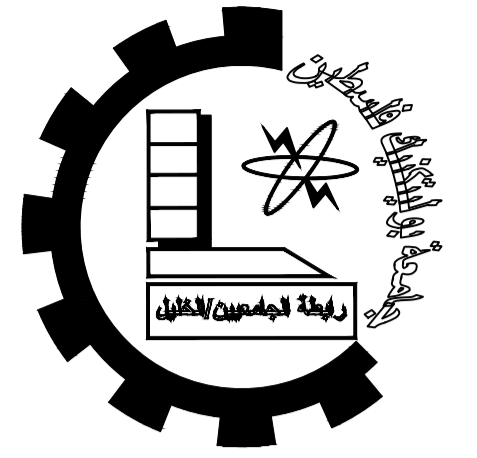
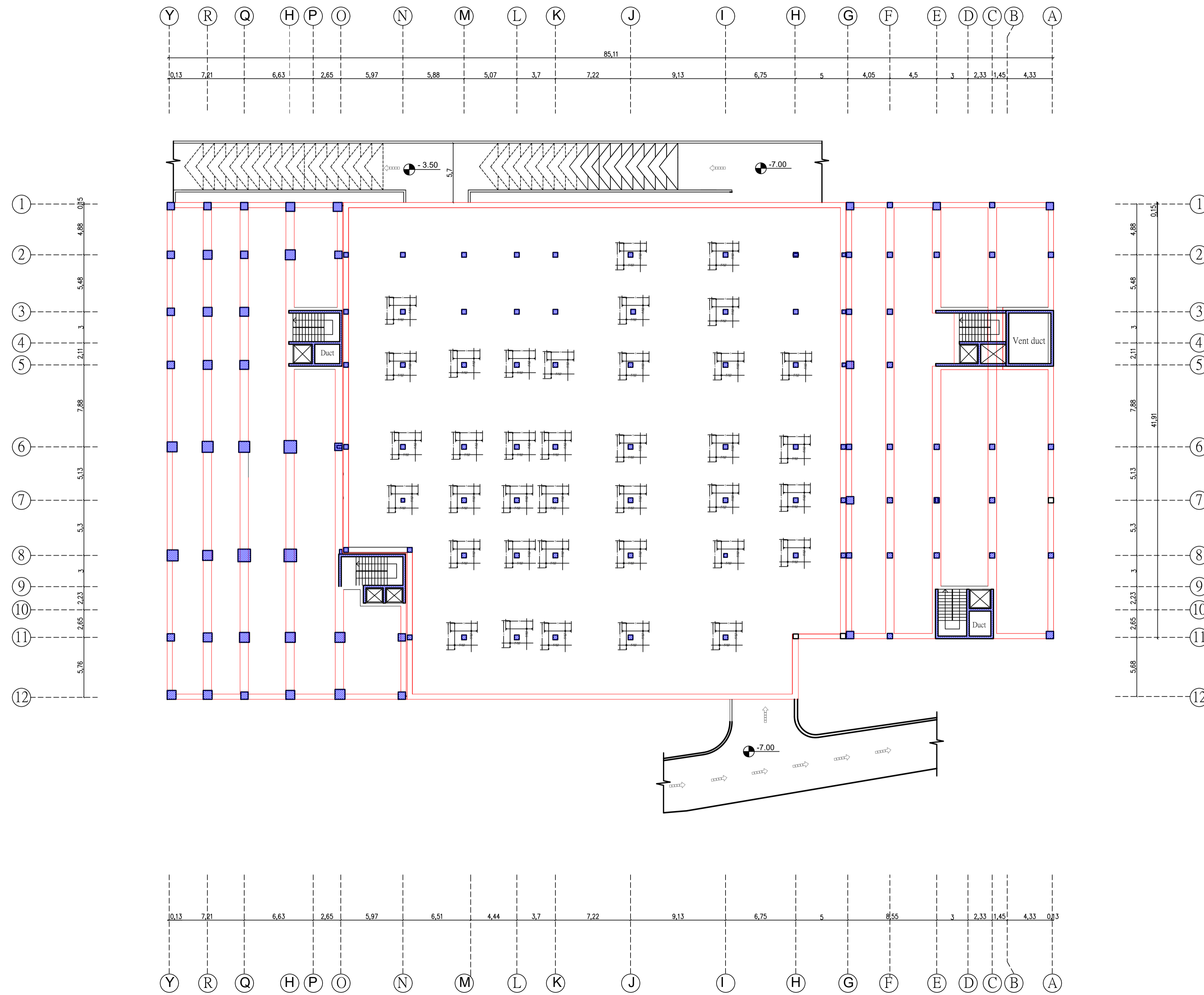
Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S2	21/1/2024



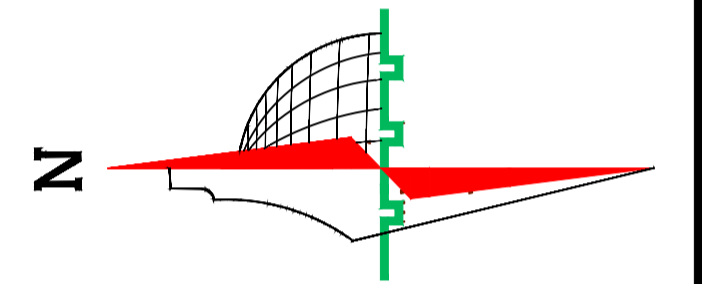
Basement Floor Slab2 Additional Reinforcement  
Scale 1 : 250



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Basement Floor Slab  
Additional Reinforcement

Supervisor

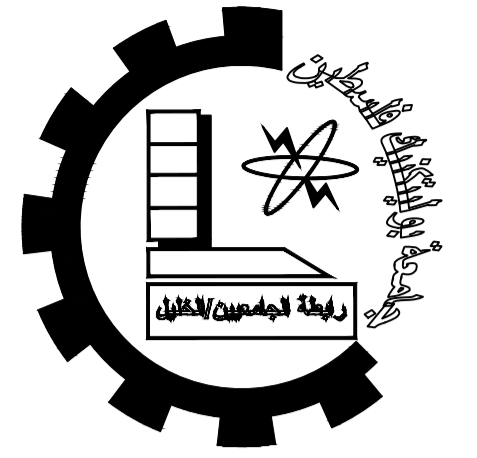
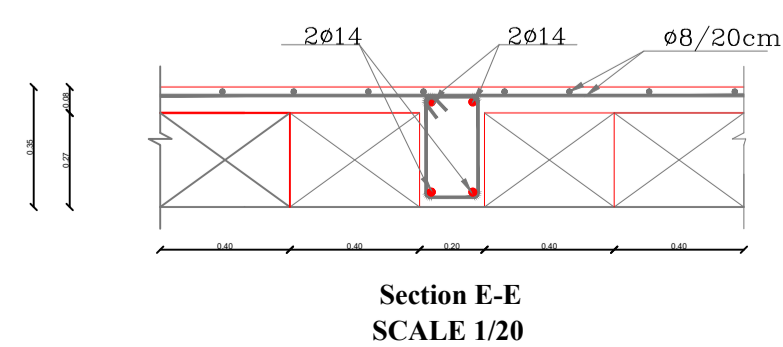
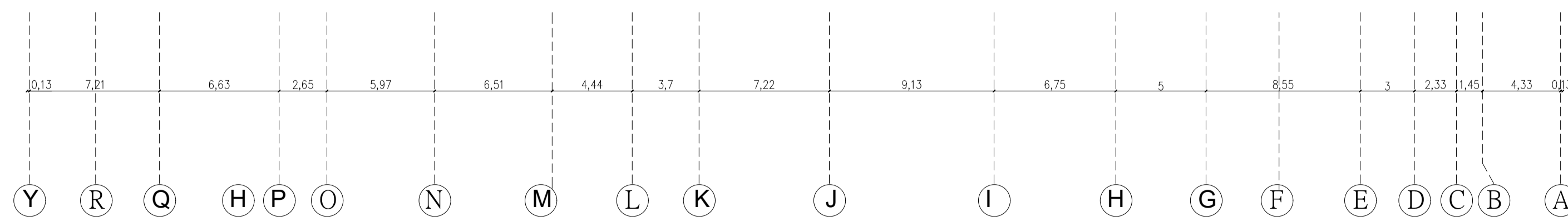
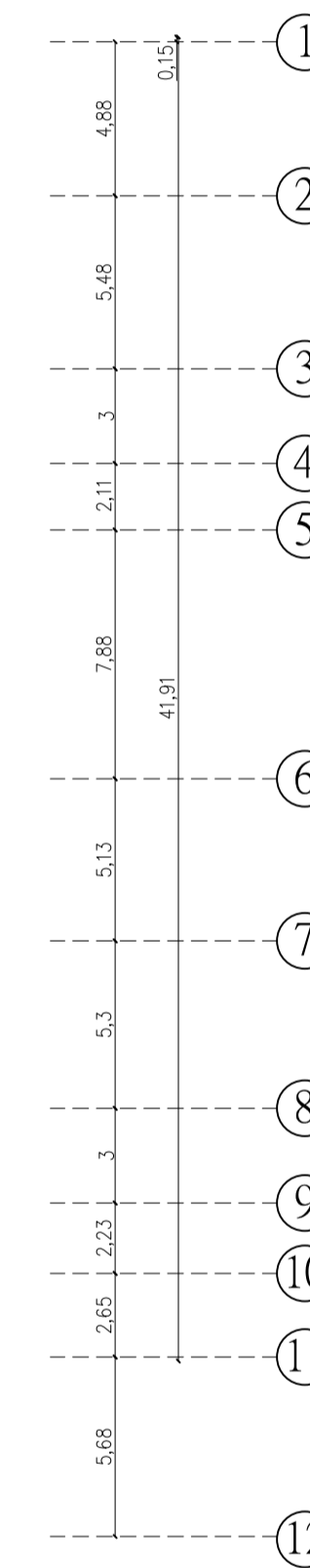
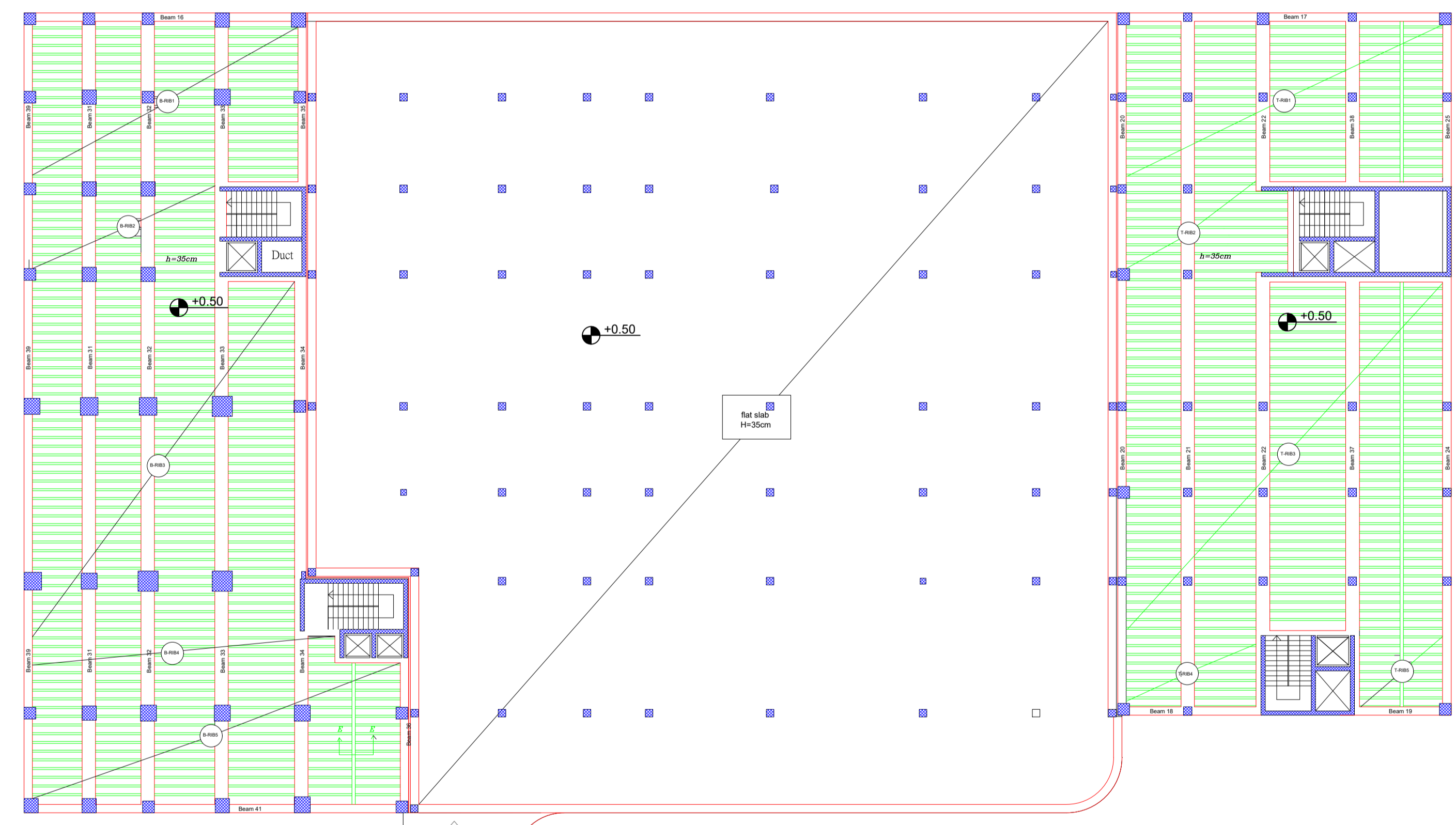
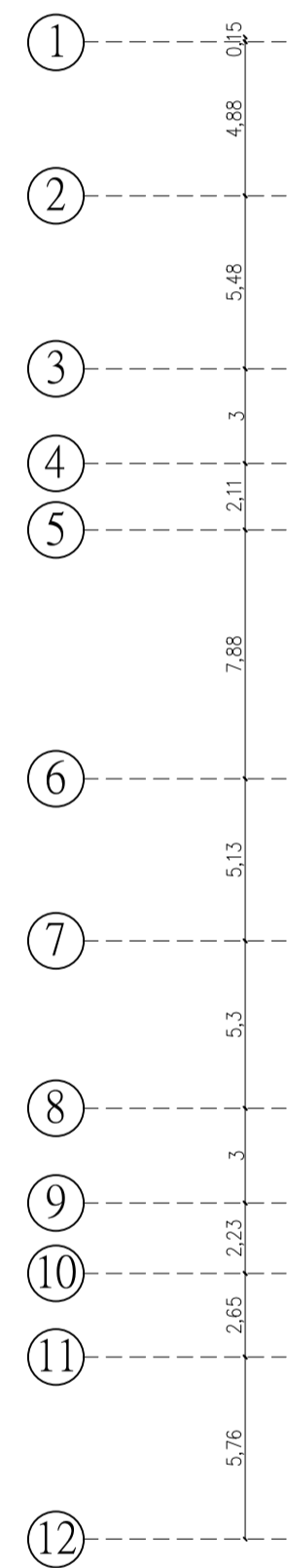
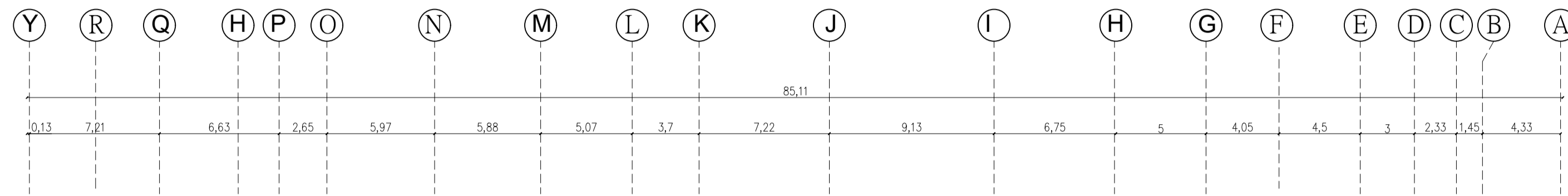
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S3	21/1/2024

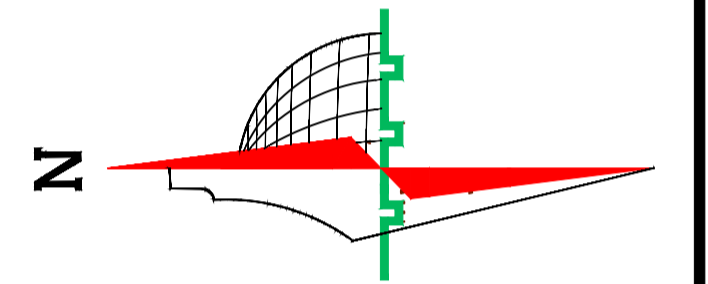
Basement Floor Slab1 Distribution of Ribs  
Scale 1 : 250



Palestine Polytechnic University  
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Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Basement Floor Slab  
Distribution of Ribs

Supervisor

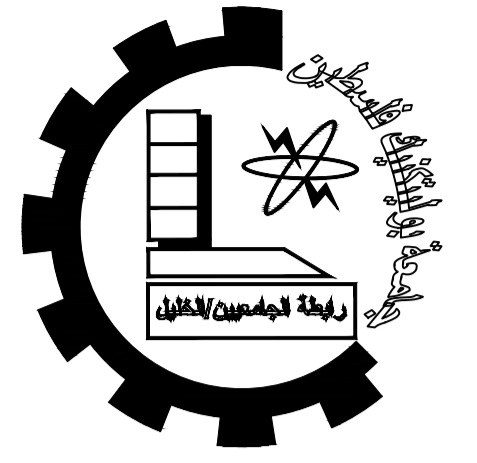
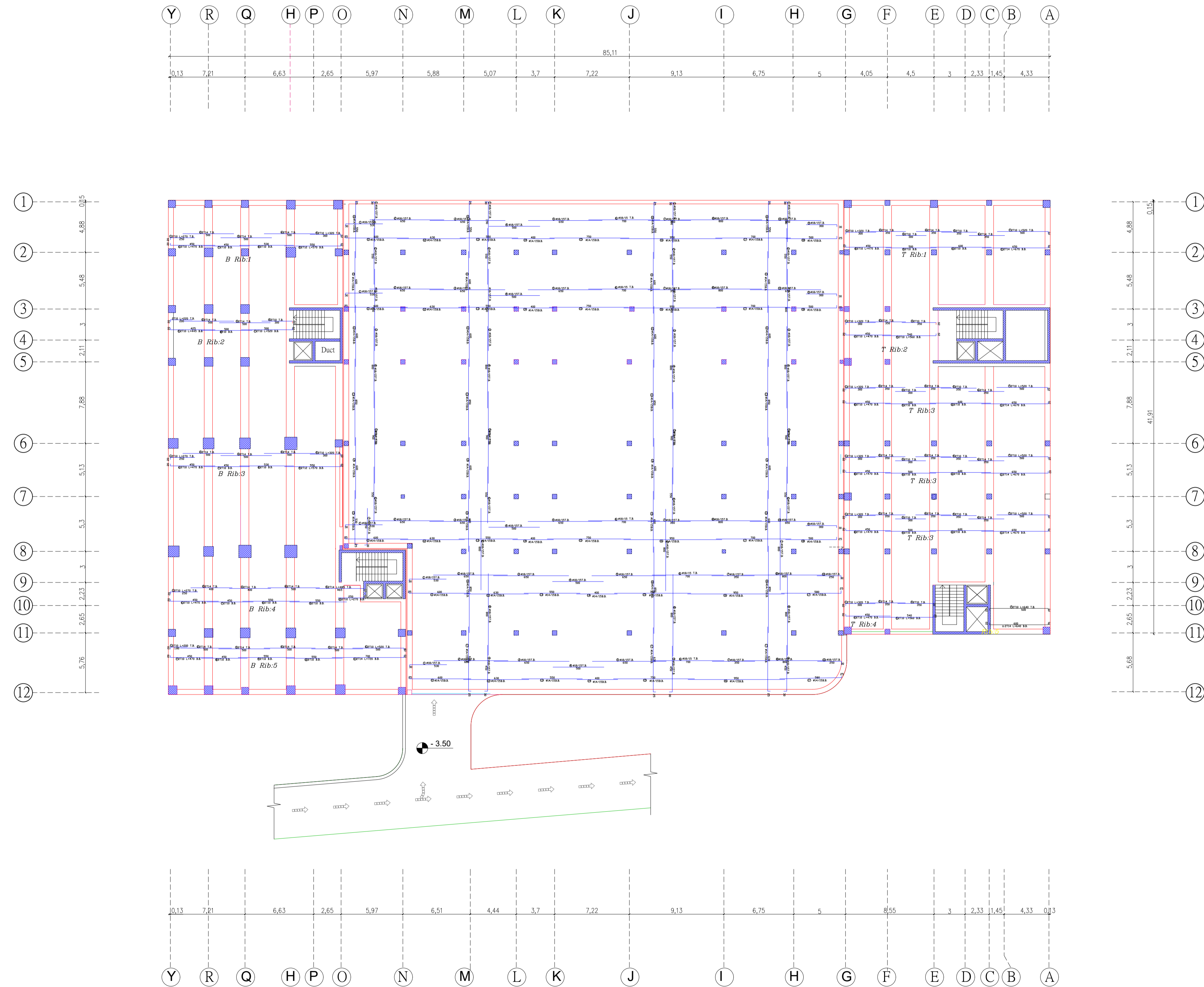
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S4	21/1/2024

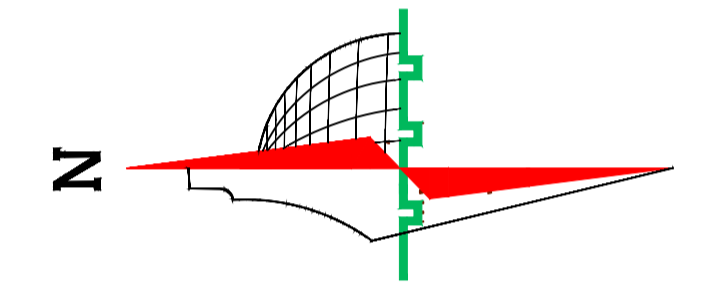
*Basement Floor Slab1 Reinforcement*  
Scale 1 : 250



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Graduation Project

IVORY HOTEL & RESORT



**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

Basement Floor Slab  
Reinforcement

Supervisor

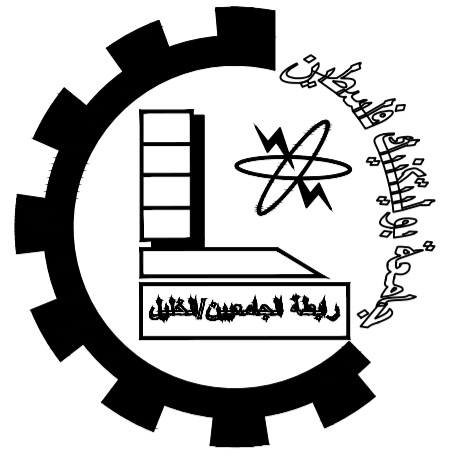
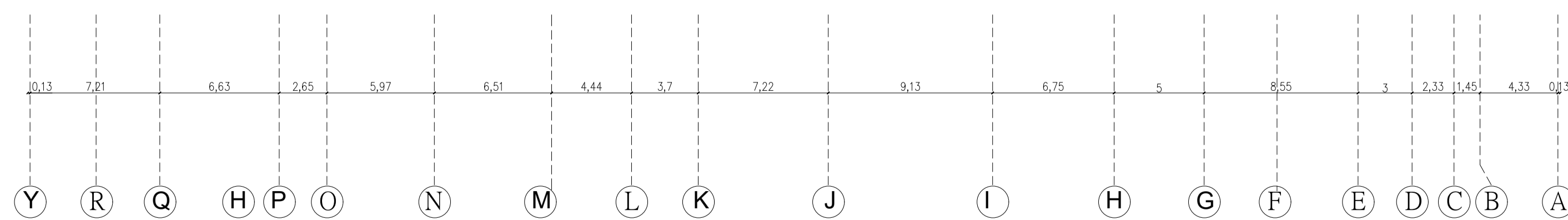
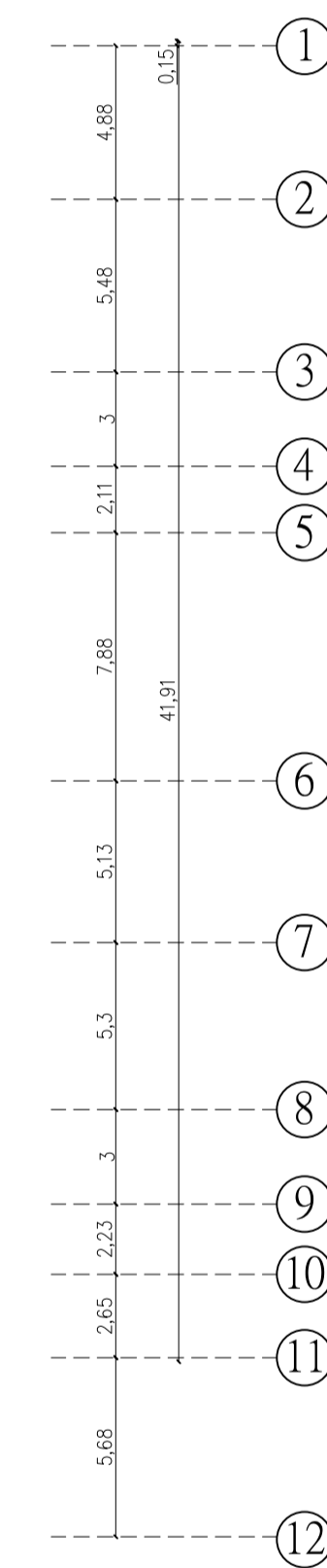
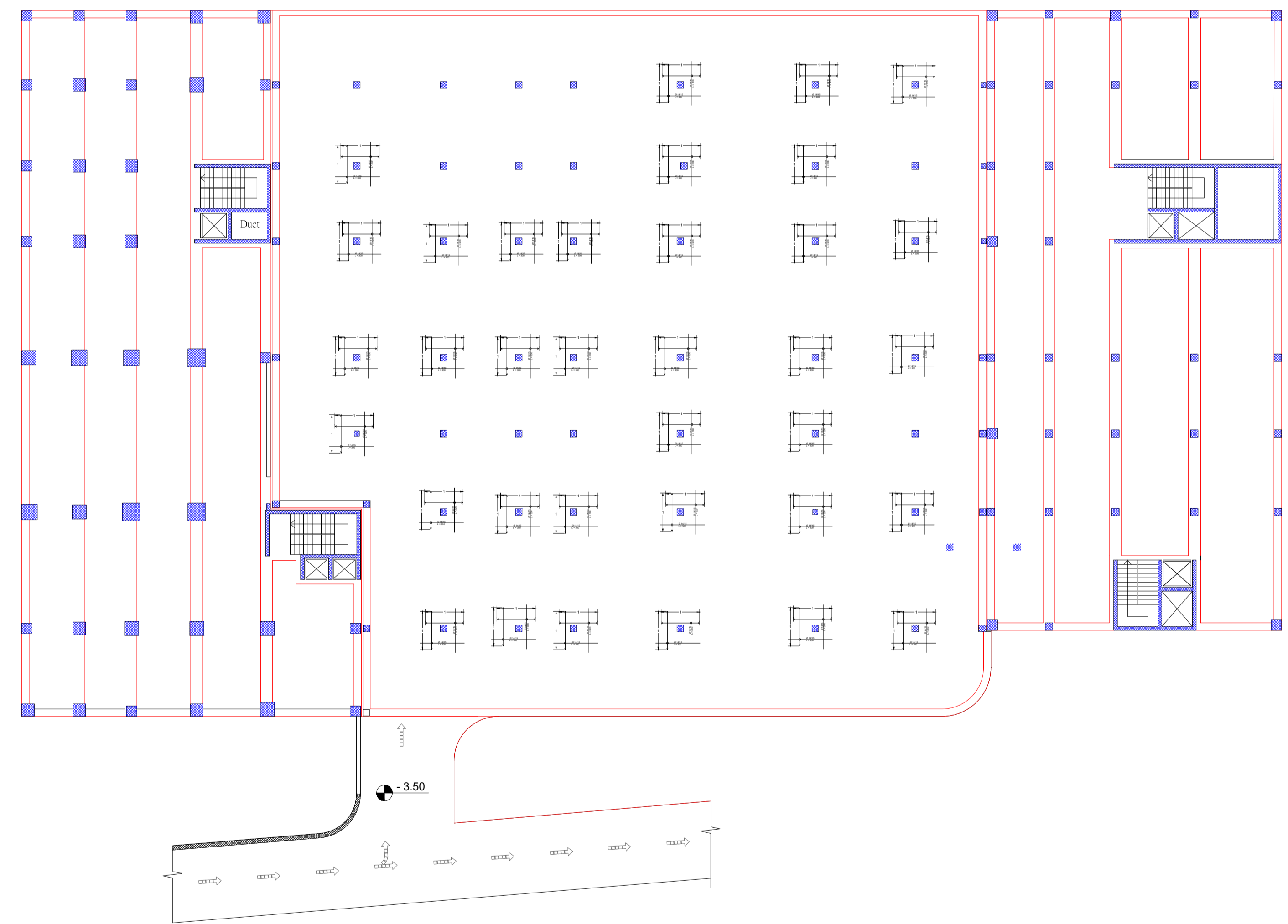
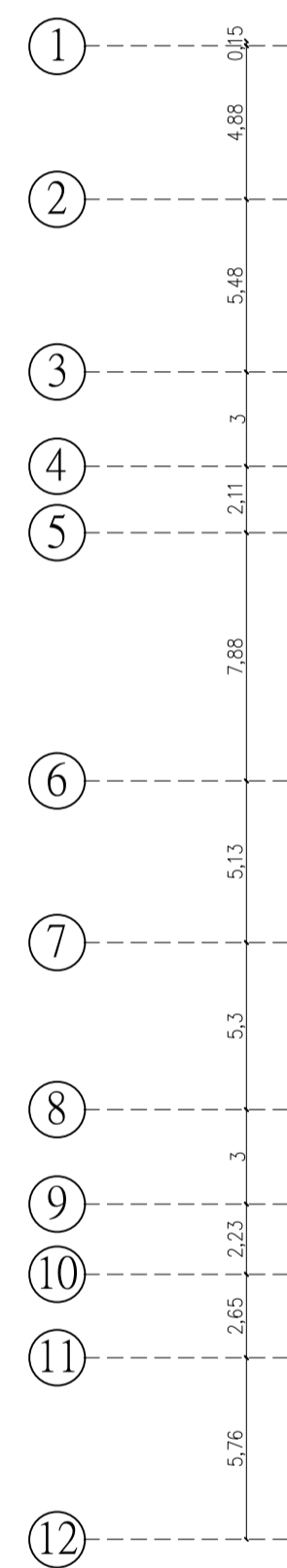
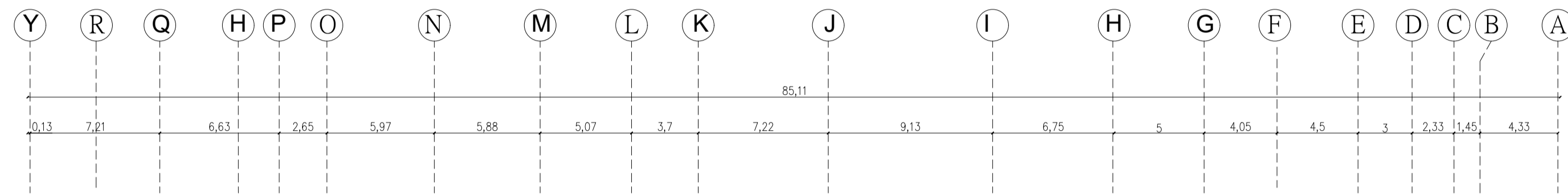
Dr.Maher Amro.

Done by :

*Khaled najjar*  
*Nizar al sharaya*  
*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	S5	21/1/2024

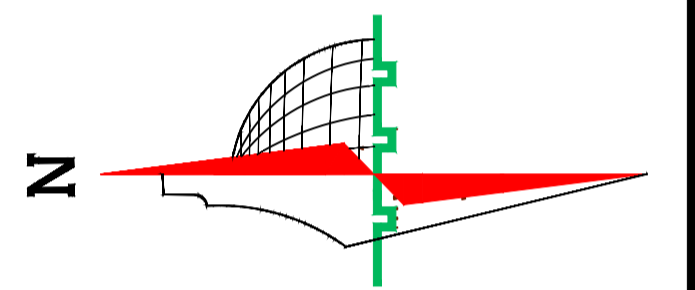
*Basement Floor Slab1 Additional Reinforcement*  
Scale 1 : 250



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IVORY HOTEL & RESORT



**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

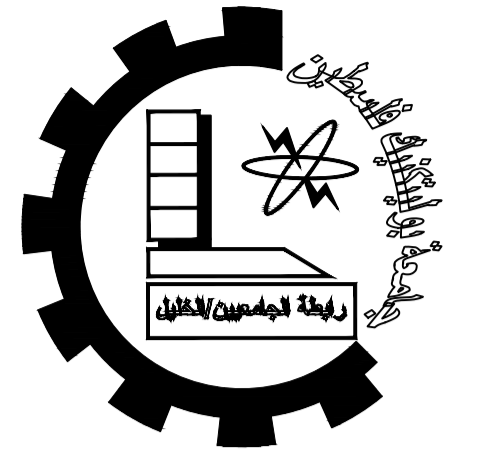
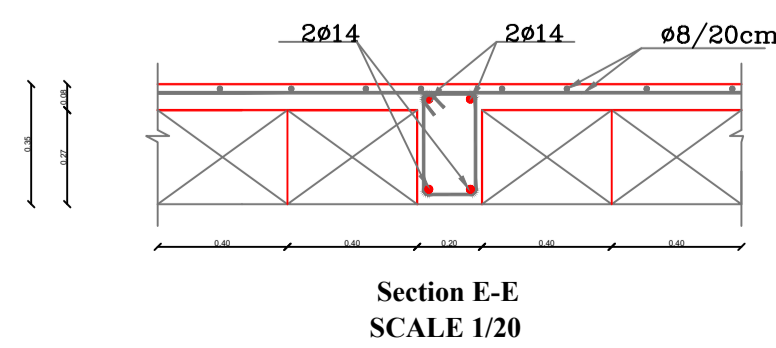
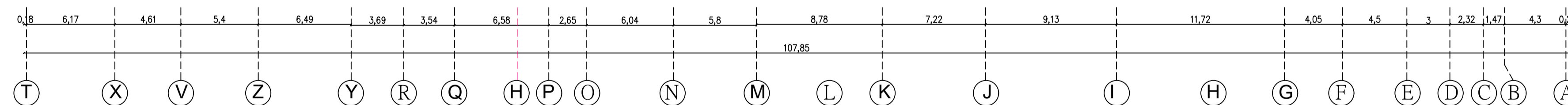
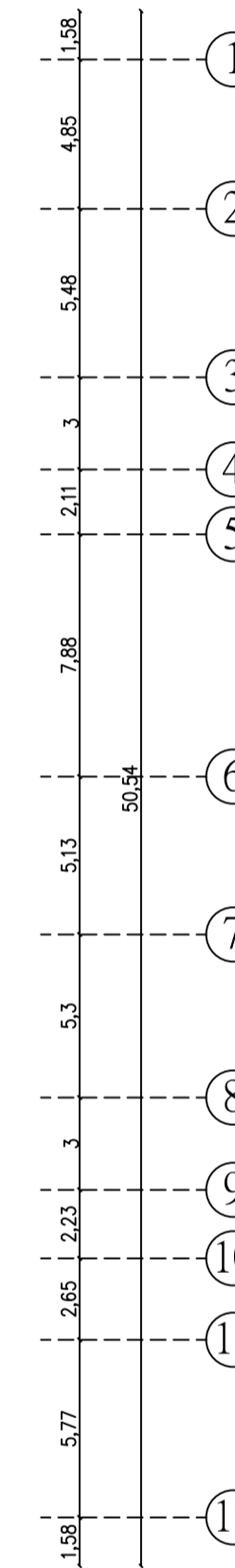
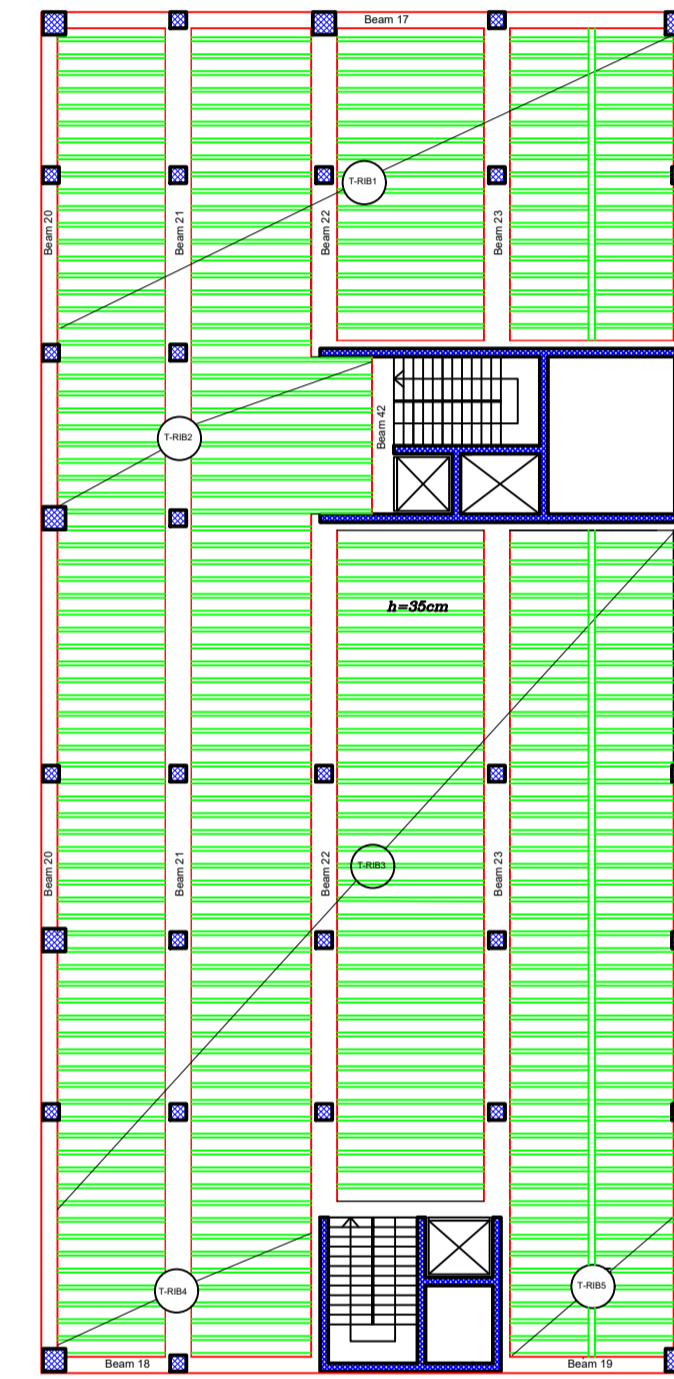
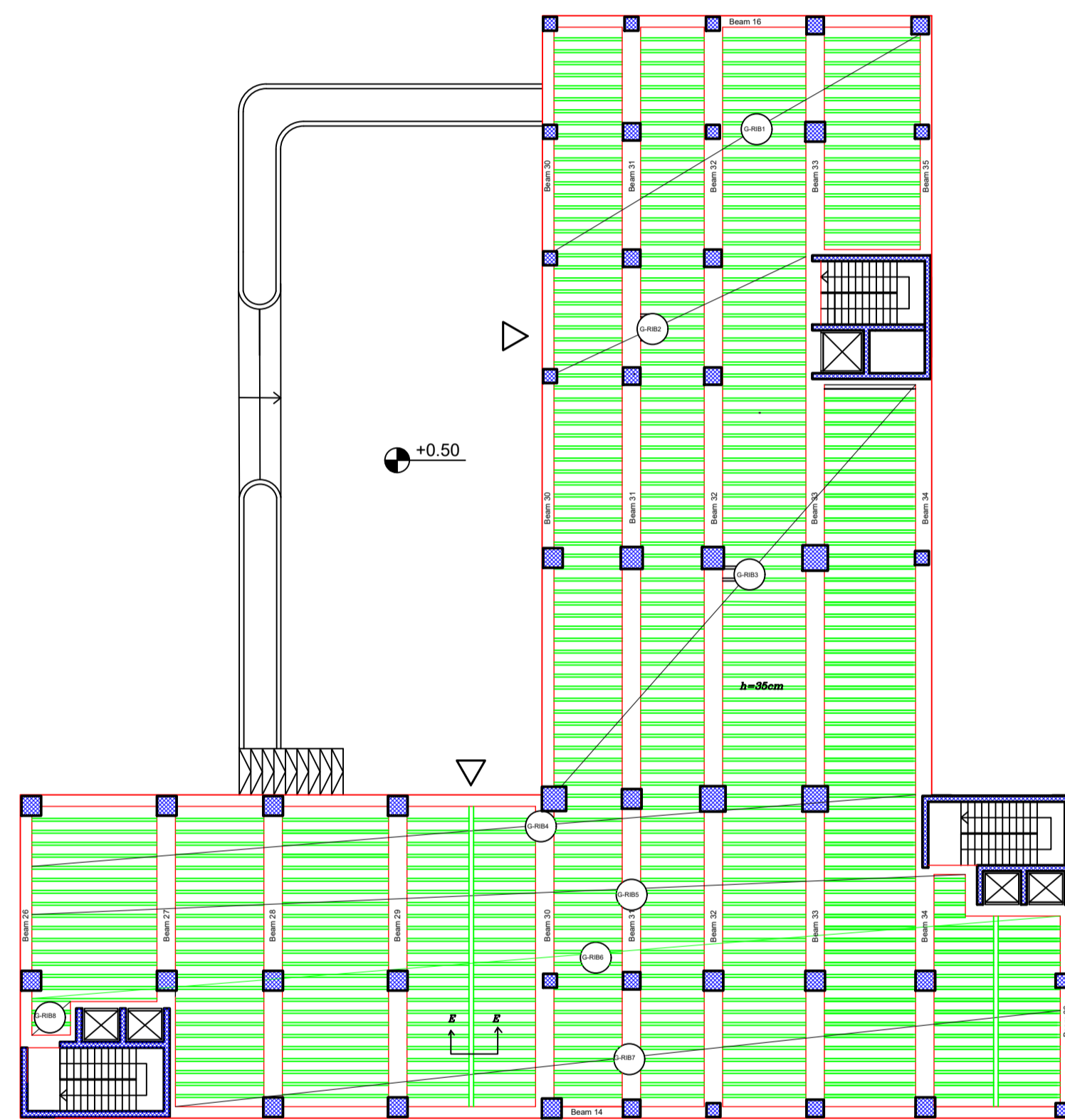
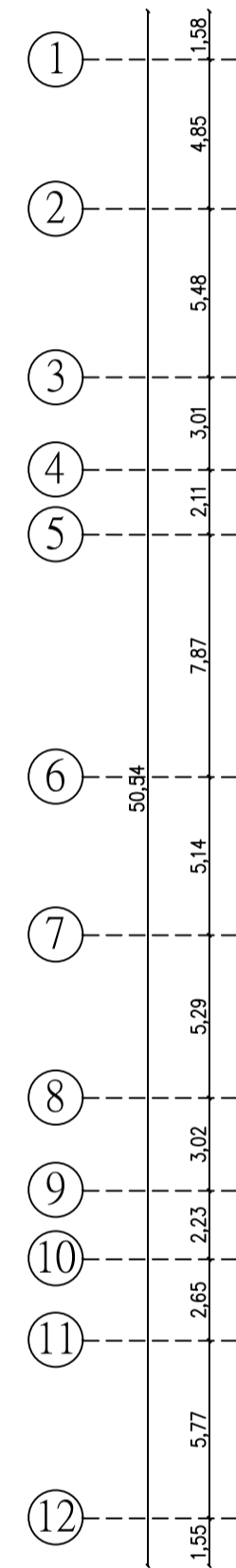
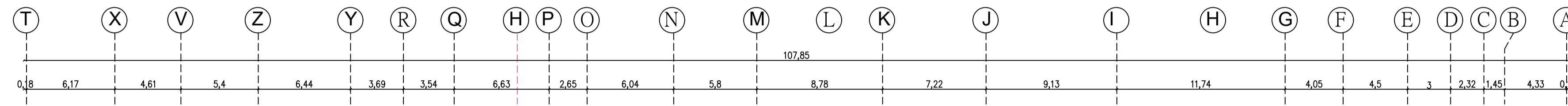
Basement Floor Slab  
Additional Reinforcement

Supervisor  
Dr.Maher Amro.

Done by :  
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S6	21/1/2024

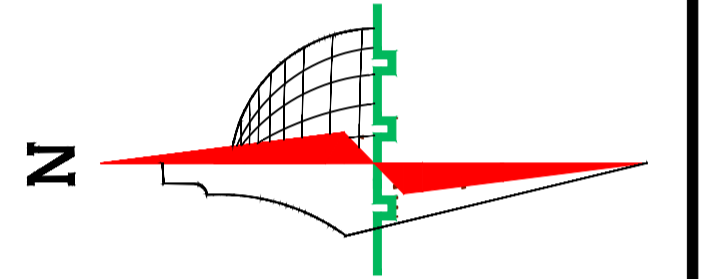
*Ground Floor Slab Distribution of Ribs*  
Scale 1 : 250



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Graduation Project

IVORY HOTEL & RESORT



**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

*Ground Floor Slab  
Distribution of Ribs*

Supervisor

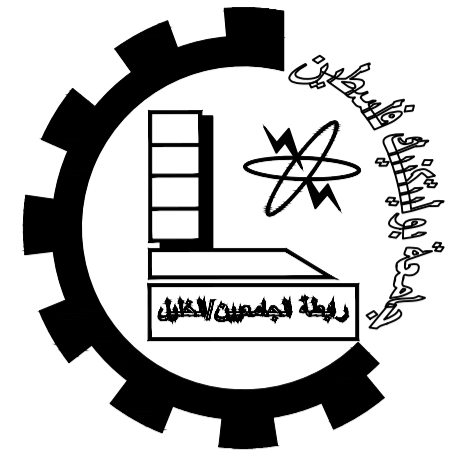
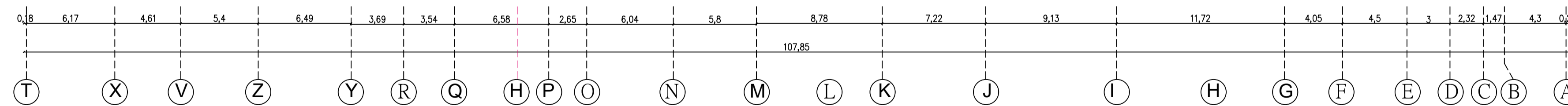
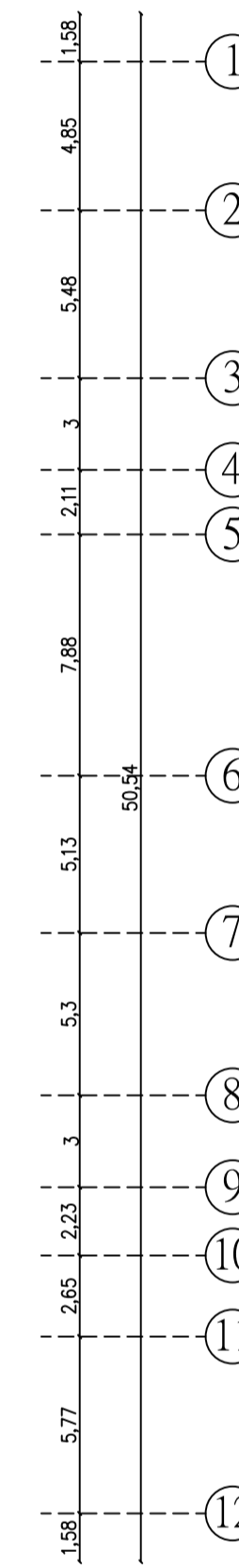
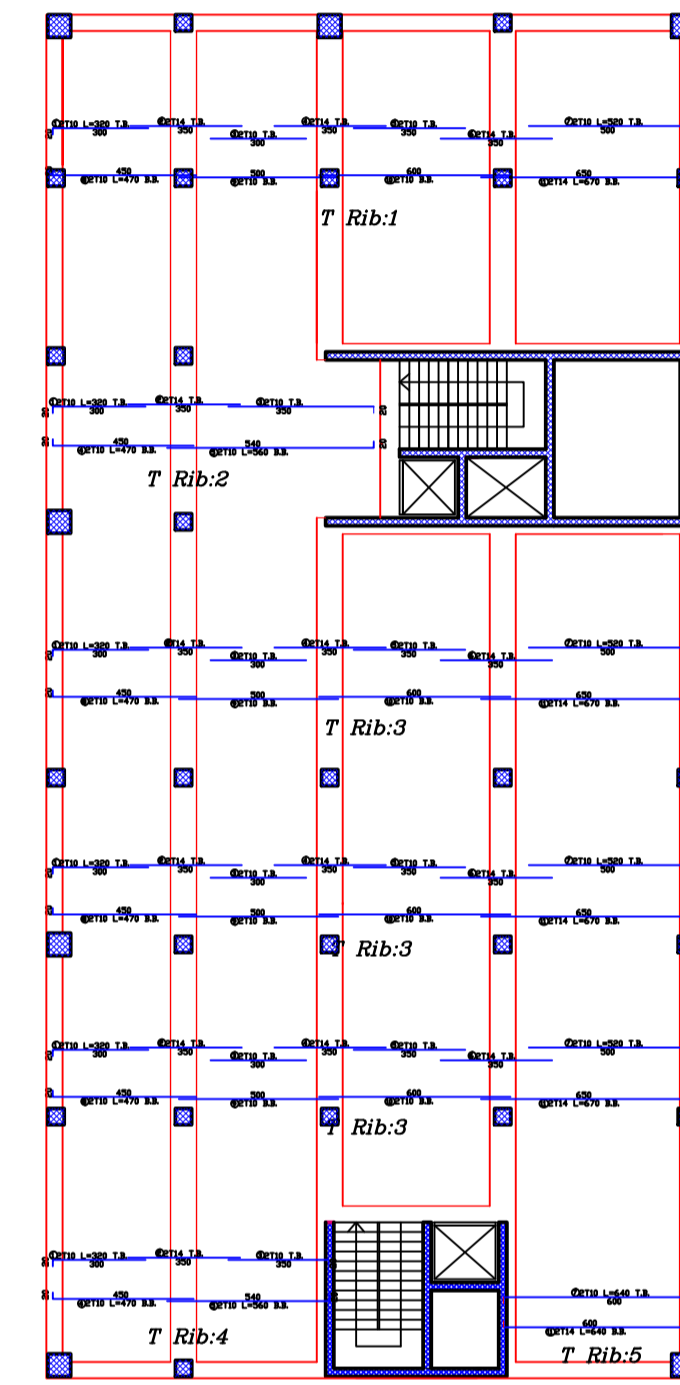
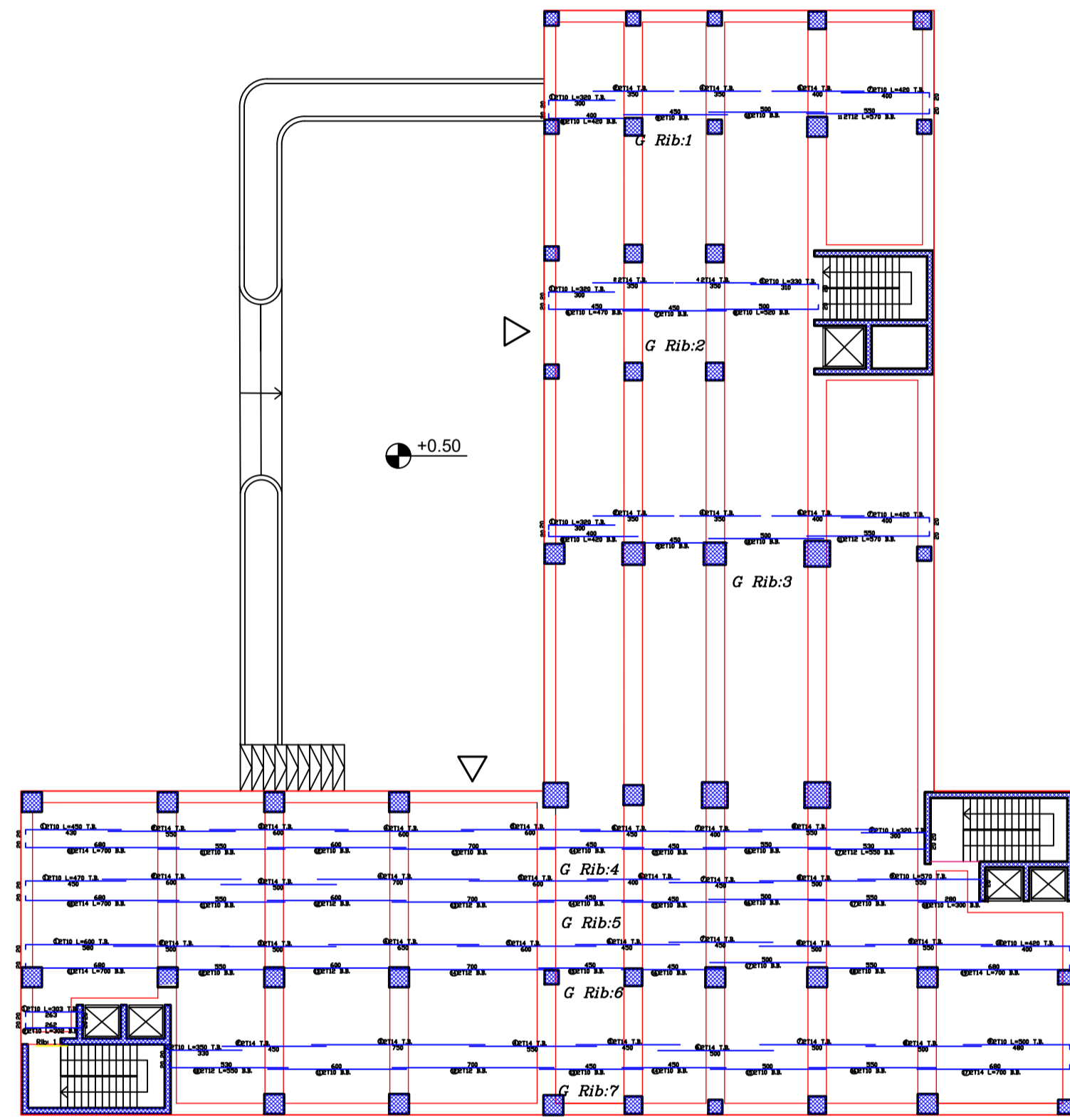
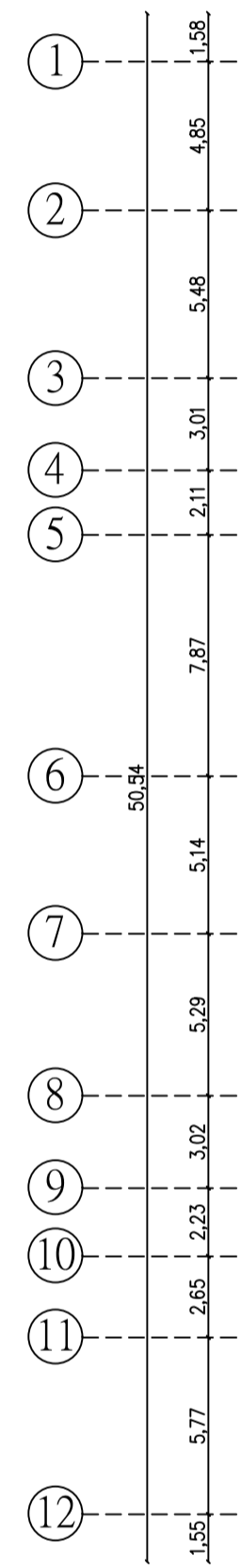
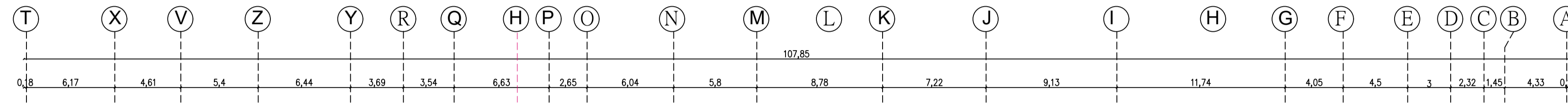
Dr.Maher Amro.

Done by :

*Khaled najjar  
Nizar al sharaya  
islam mansrh*

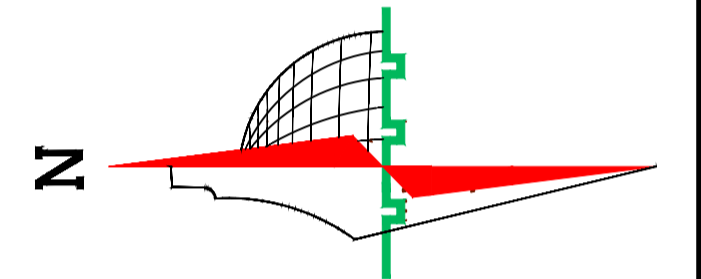
SCALE	No. of DRAW	DATE
1/250	S7	21/1/2024

*Ground Floor Slab Reinforcement*  
Scale 1 : 250



Palestine Polytechnic University  
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Civil Engineering  
Graduation Project

IVORY HOTEL & RESORT



**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

*Ground Floor Slab Reinforcement*

Supervisor

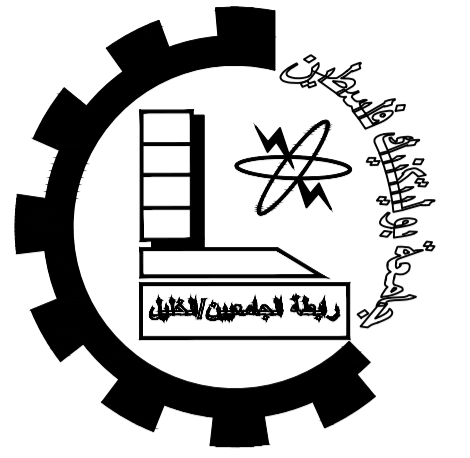
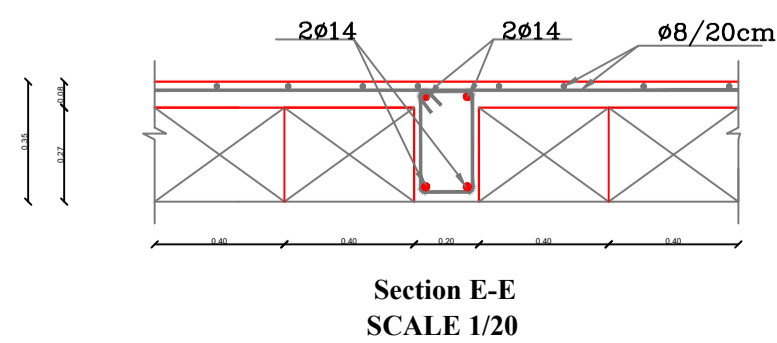
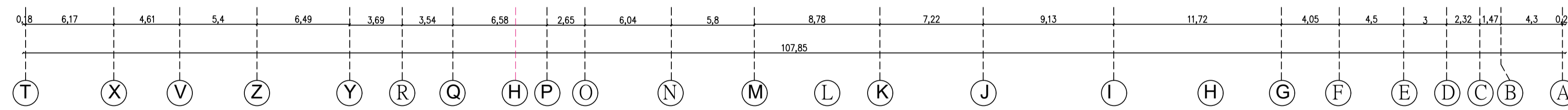
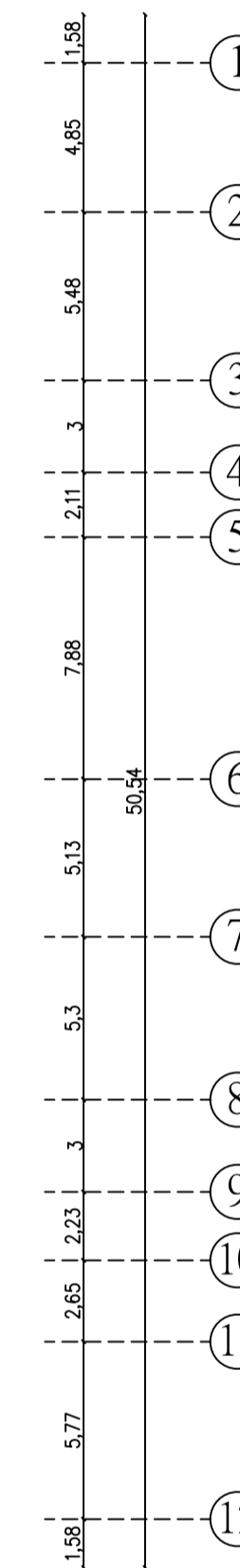
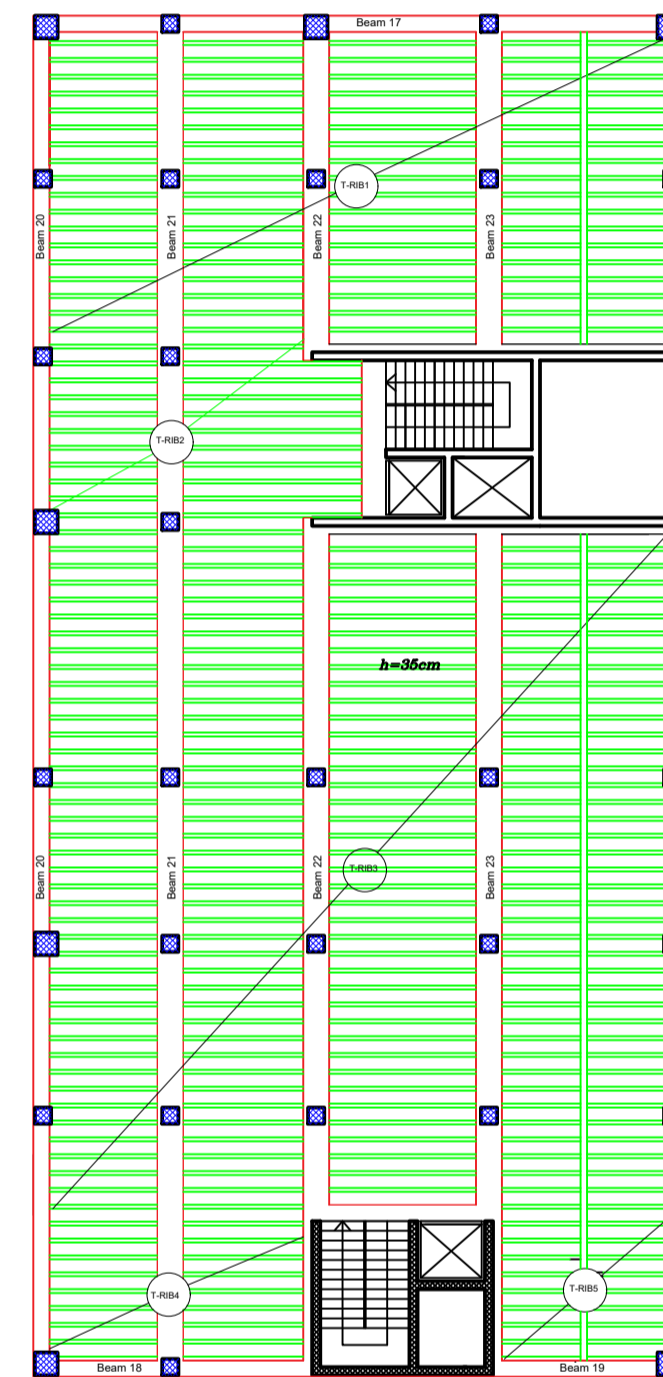
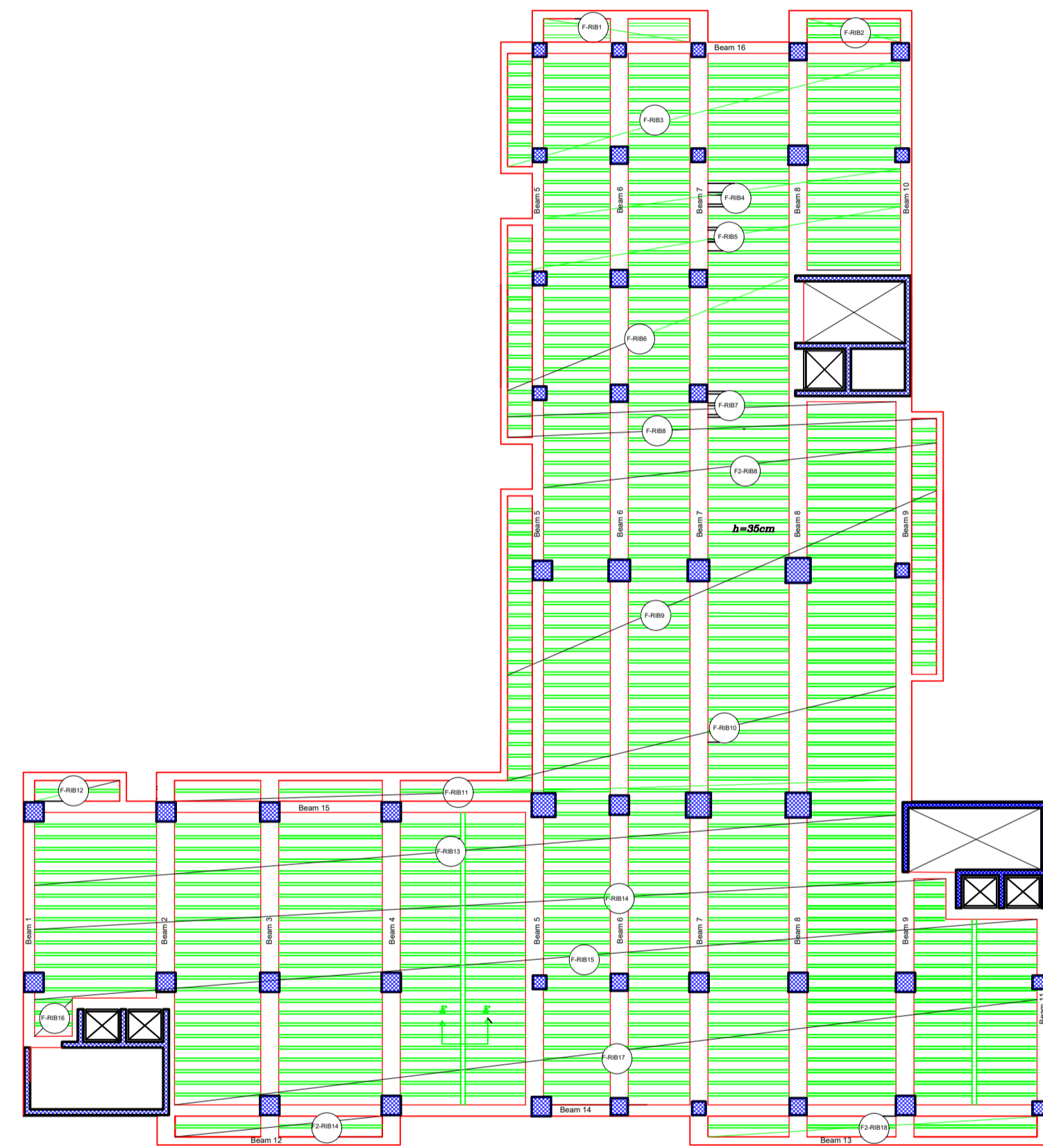
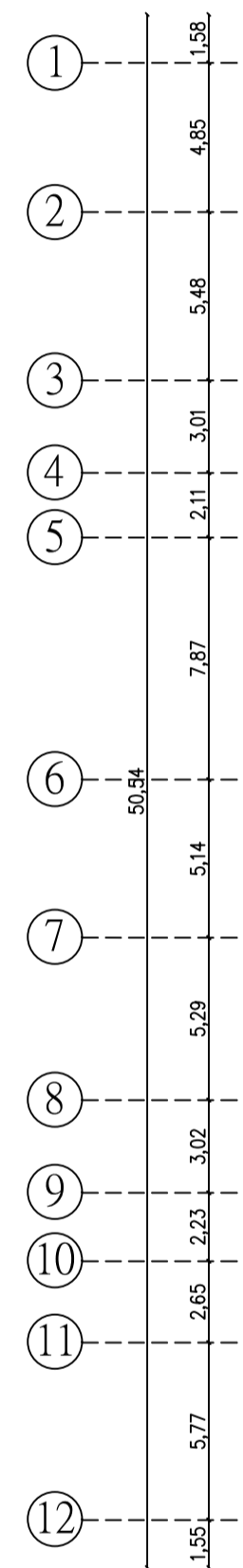
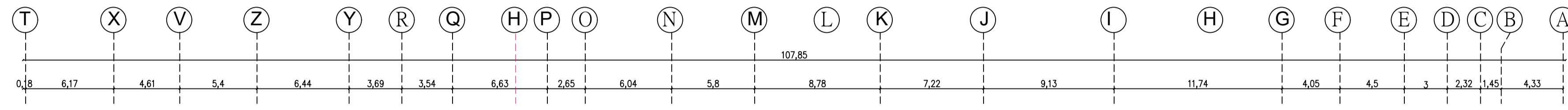
Dr.Maher Amro.

Done by :

*Khaled najjar*  
*Nizar al sharaya*  
*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	S8	21/1/2024

First Floor Slab Distribution of Ribs  
Scale 1 : 250



Palestine Polytechnic University

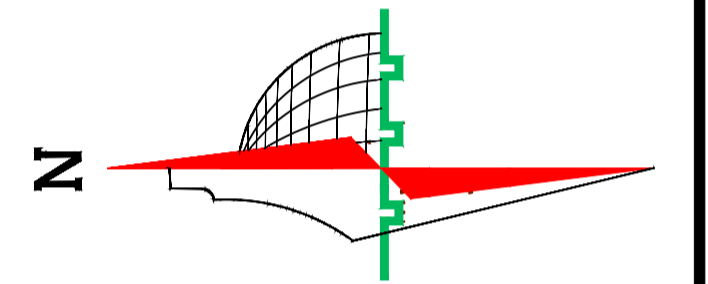
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

First Floor Slab  
Distribution of Ribs

Supervisor

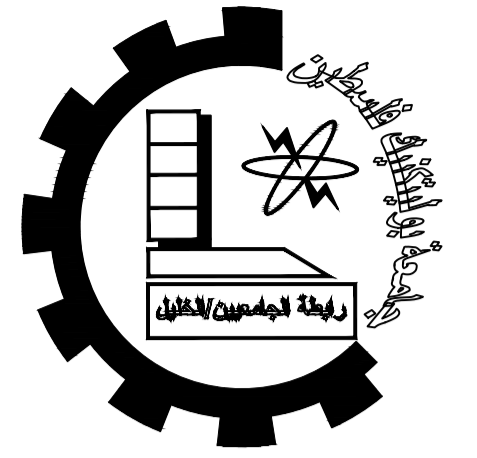
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S9	21/1/2024

First Floor Slab Reinforcement  
Scale 1 : 250



Palestine Polytechnic University

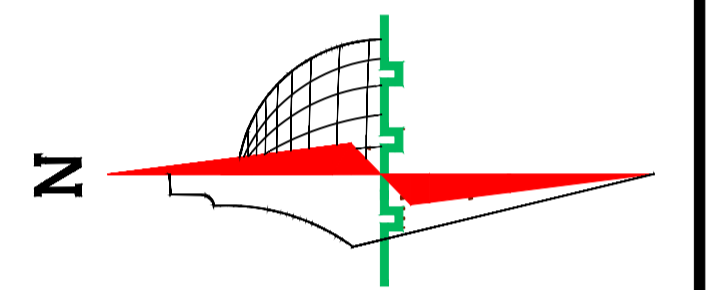
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

IVORY HOTEL & RESORT



Legend :

- |  |                     |  |                 |
|--|---------------------|--|-----------------|
|  | Stone               |  | Gravel          |
|  | R.Concrete          |  | Wood            |
|  | Concrete            |  | HEXAGONAL TILES |
|  | Hollow Block        |  | BAKLAVA TILES   |
|  | isolating materials |  | GRASS           |

DRAWING TITLE :

First Floor Slab  
Reinforcement

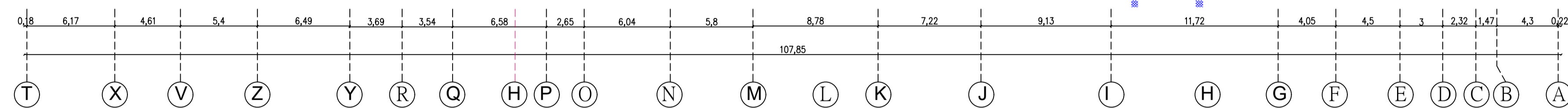
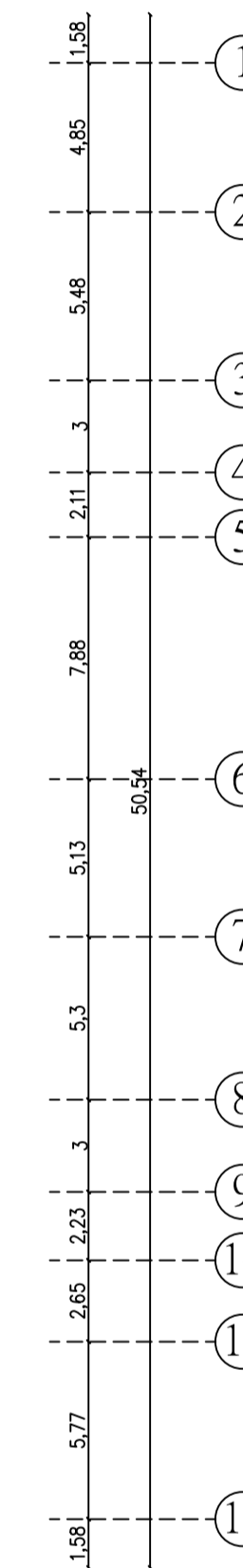
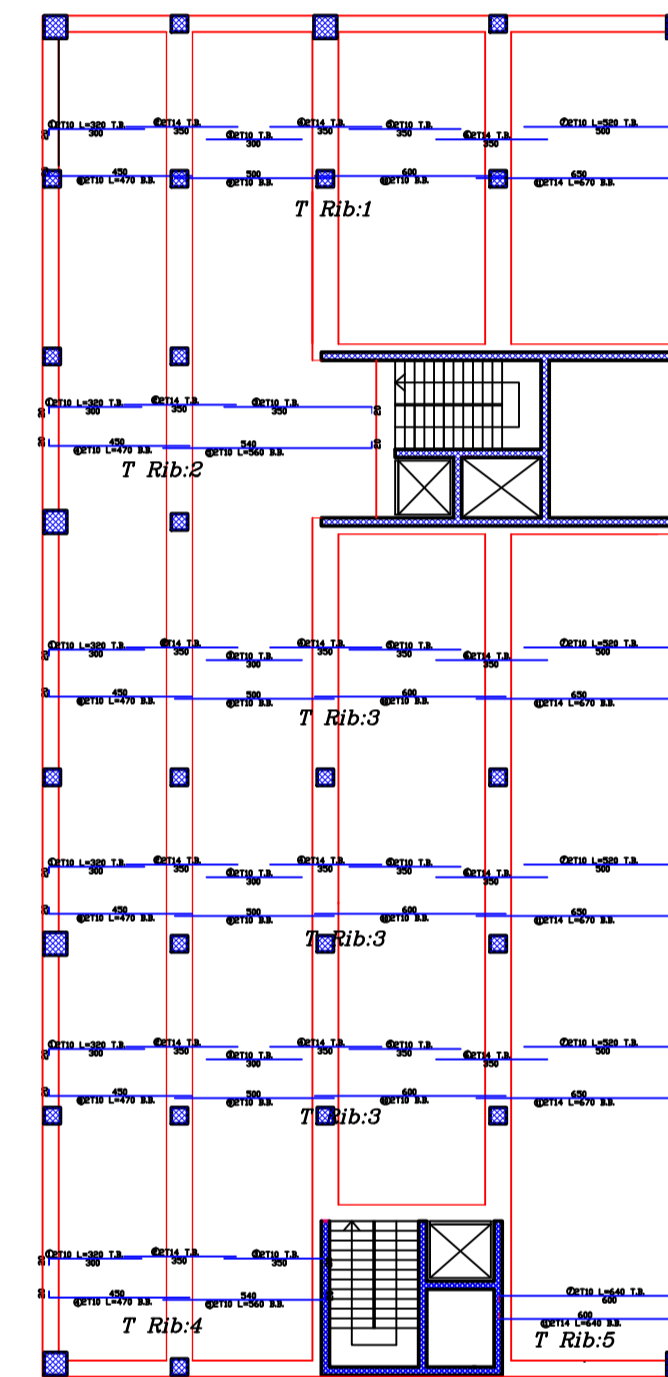
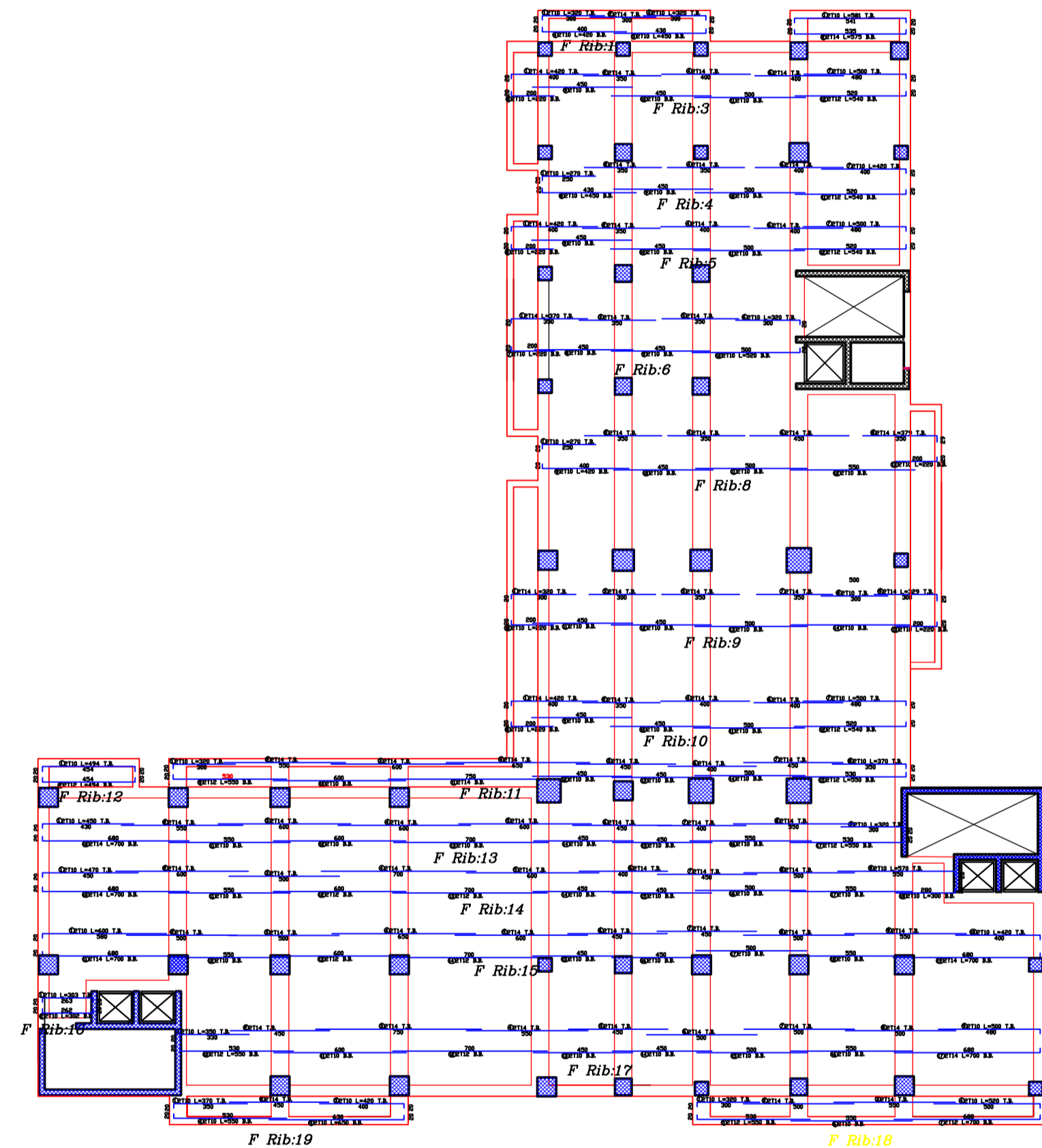
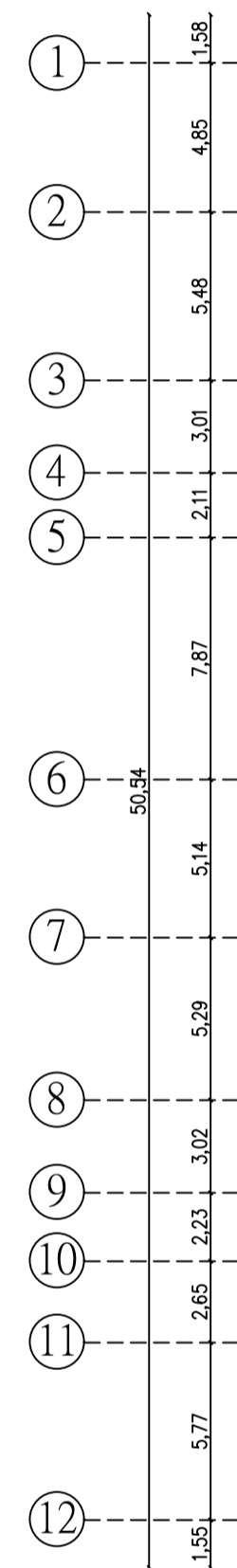
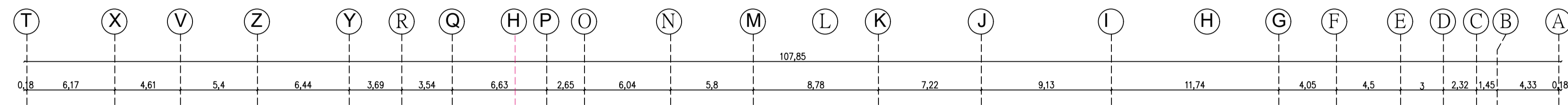
Supervisor

Dr.Maher Amro.

Done by :

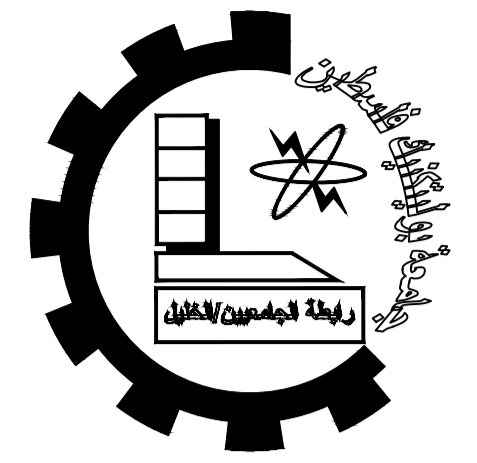
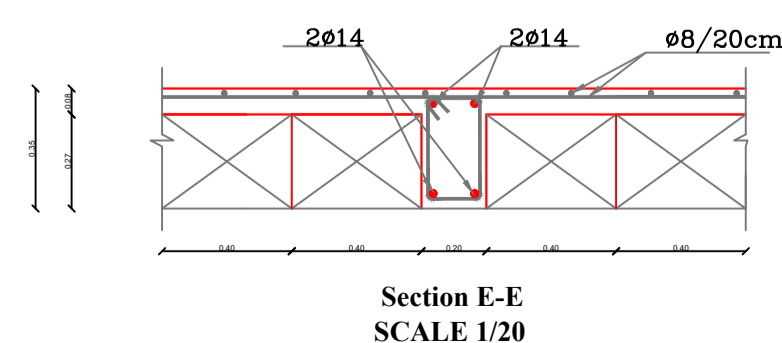
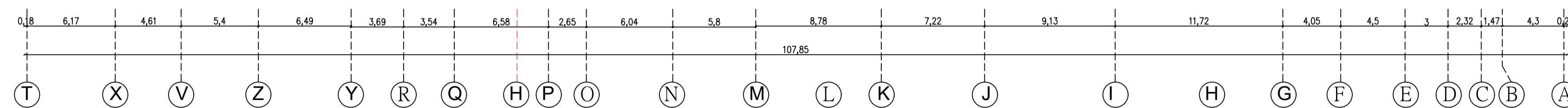
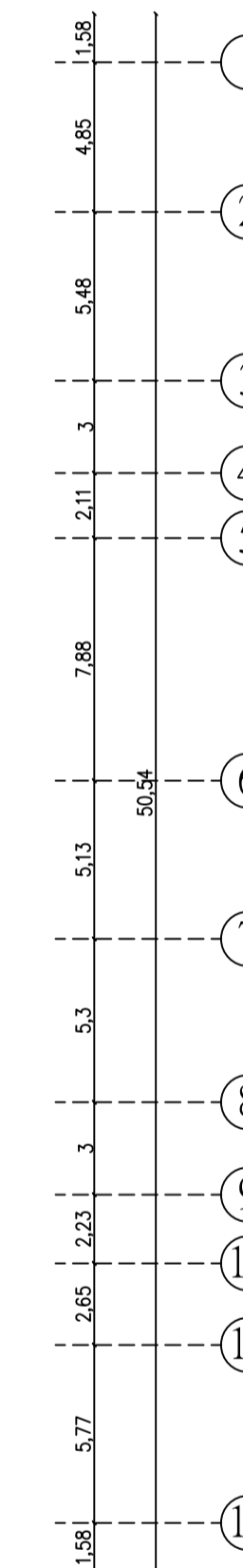
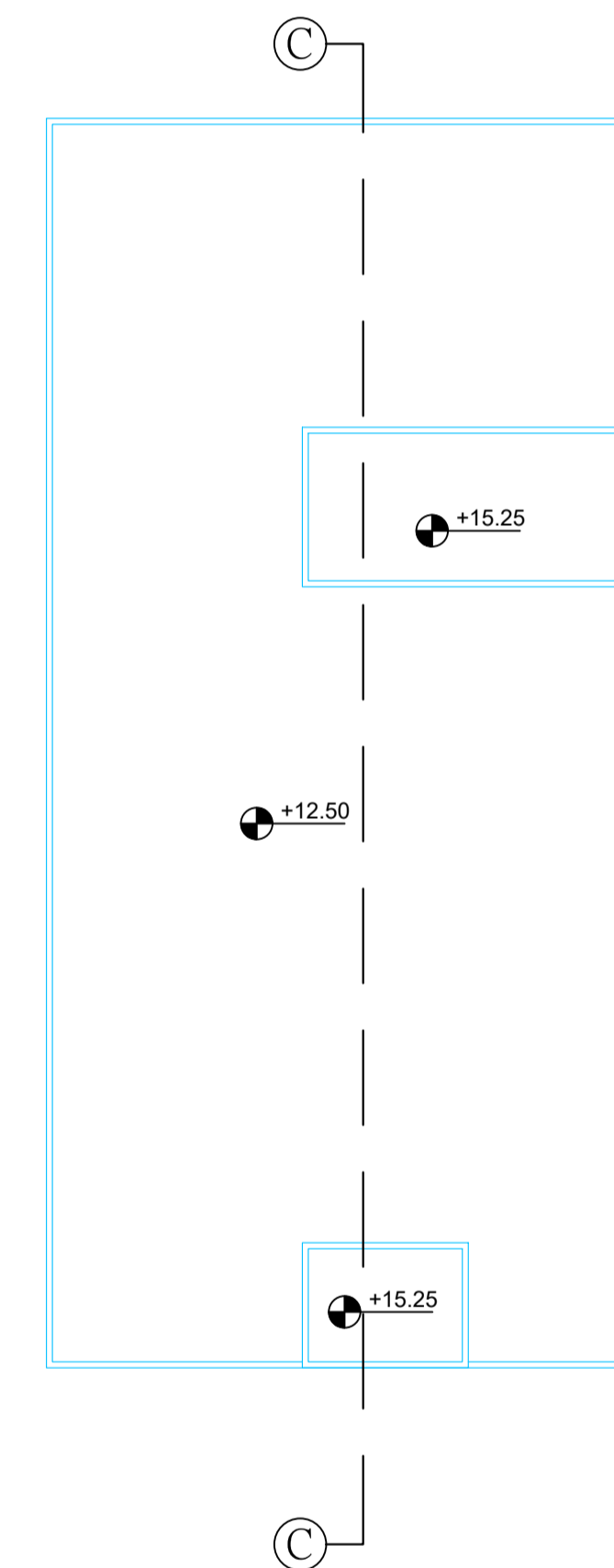
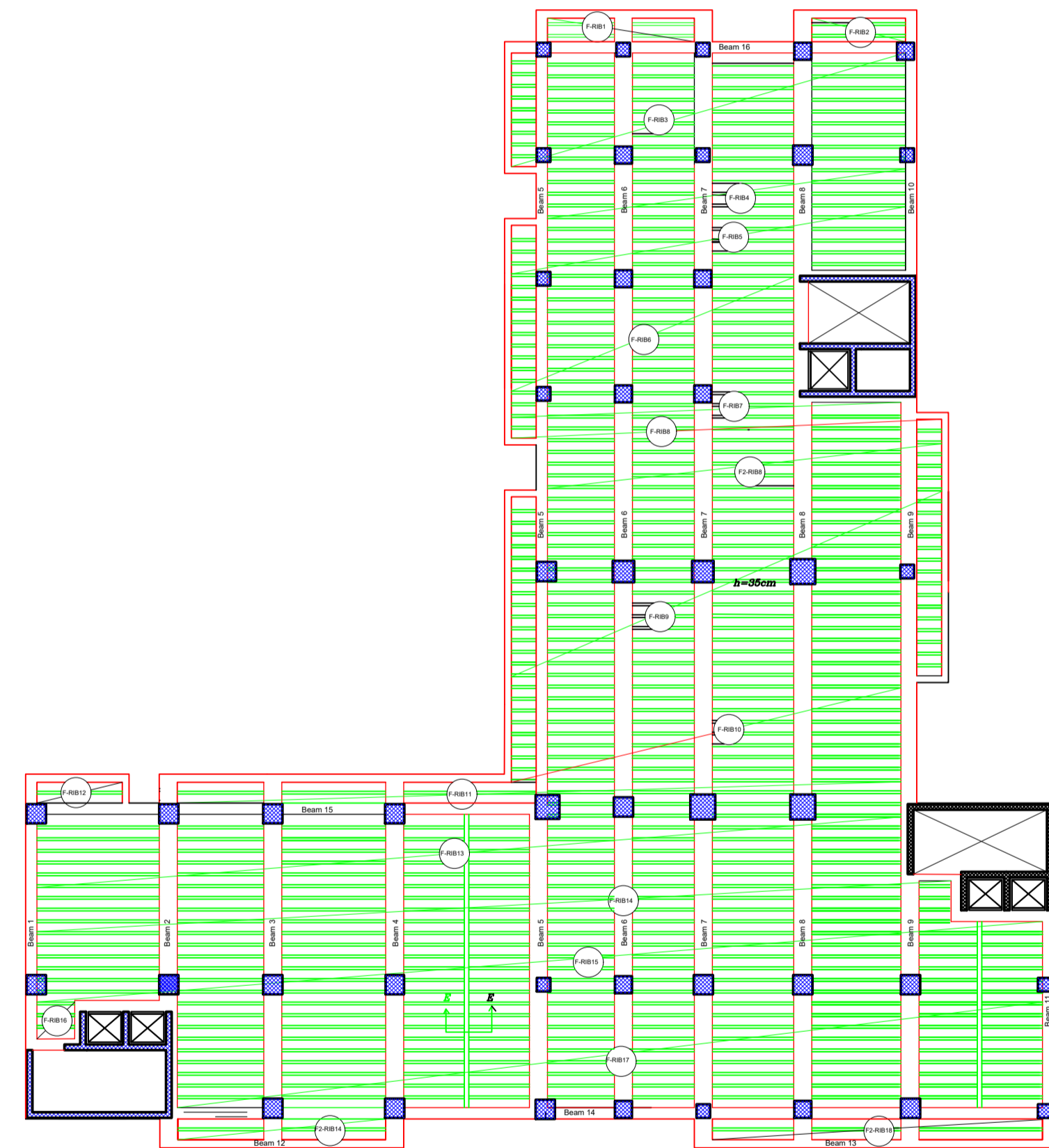
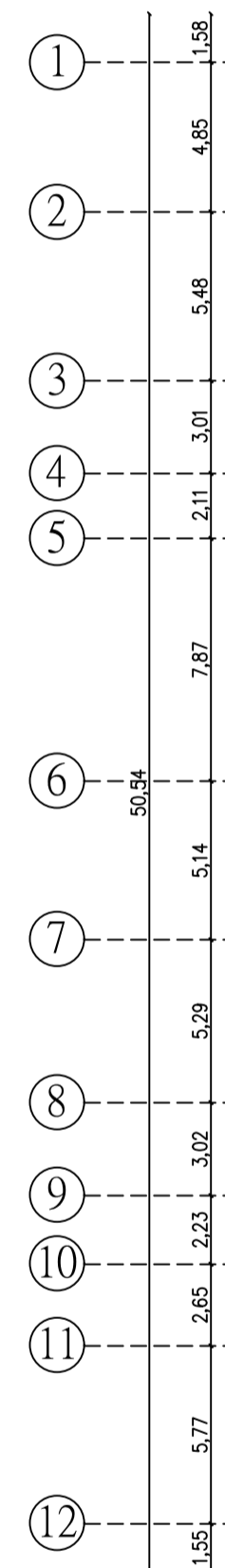
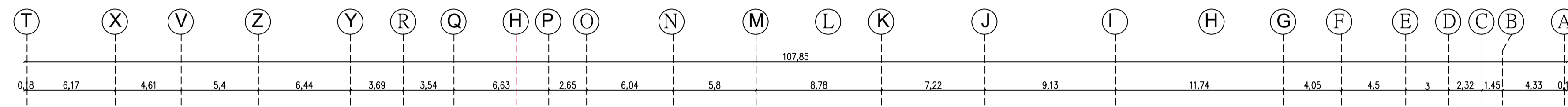
Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S10	21/1/2024





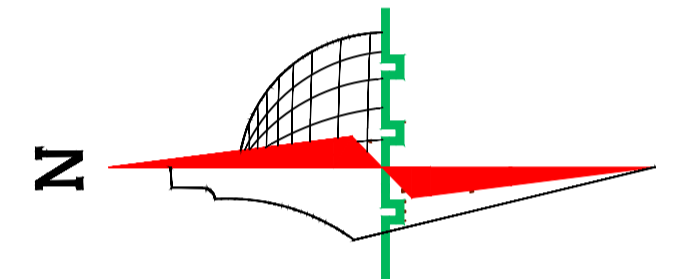
2-7 Floor Slab Distribution of Ribs  
Scale 1 : 250



Palestine Polytechnic University  
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IVORY HOTEL & RESORT



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

3-7 Floor Slab  
Distribution of Ribs

Supervisor

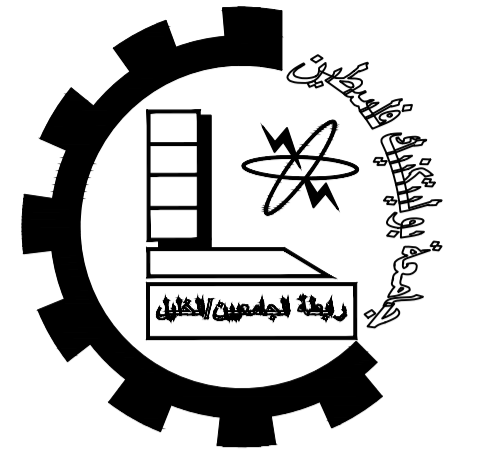
Dr.Maher Amro.

Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S11	21/1/2024

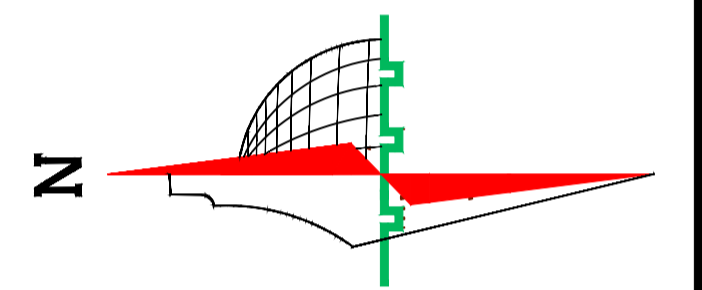
2-7 Floor Slab Reinforcement  
Scale 1 : 250



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Graduation Project

IVORY HOTEL & RESORT



Legend :

- |  |                     |  |                 |
|--|---------------------|--|-----------------|
|  | Stone               |  | Gravel          |
|  | R.Concrete          |  | Wood            |
|  | Concrete            |  | HEXAGONAL TILES |
|  | Hollow Block        |  | BAKLAVA TILES   |
|  | isolating materials |  | GRASS           |

DRAWING TITLE :

3-7 Floor Slab  
Reinforcement

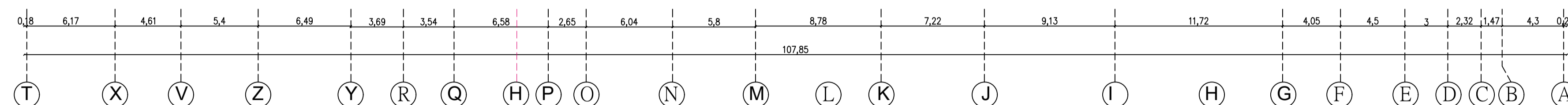
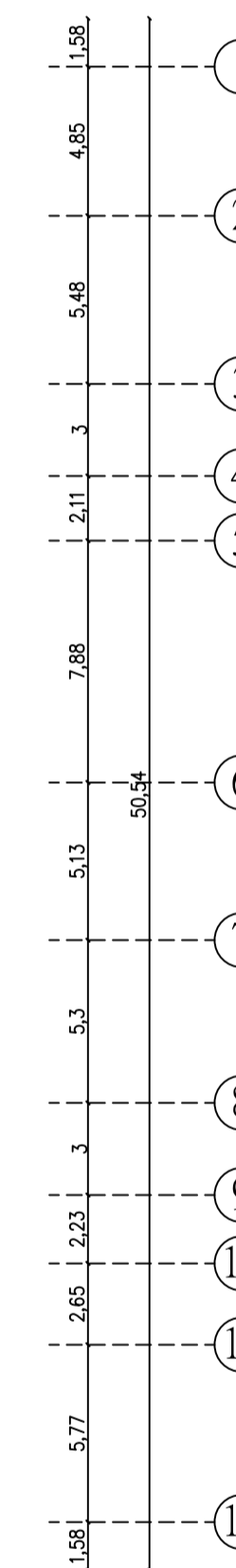
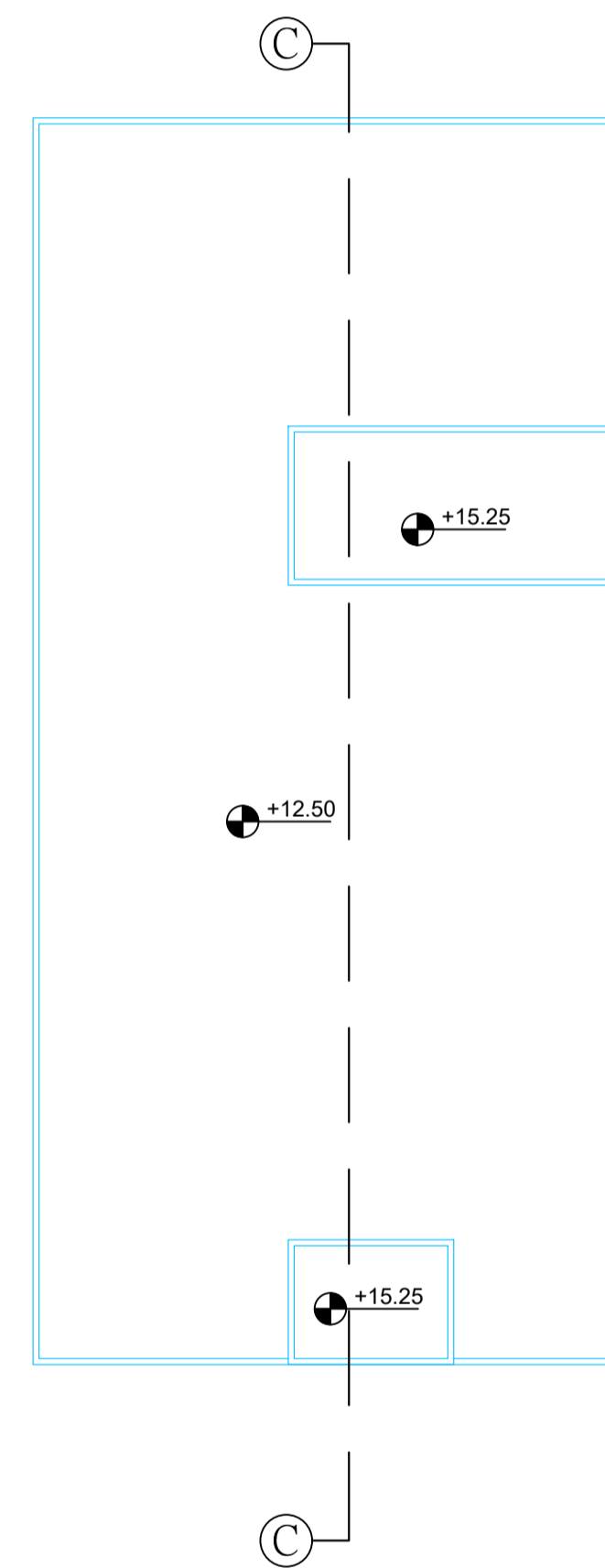
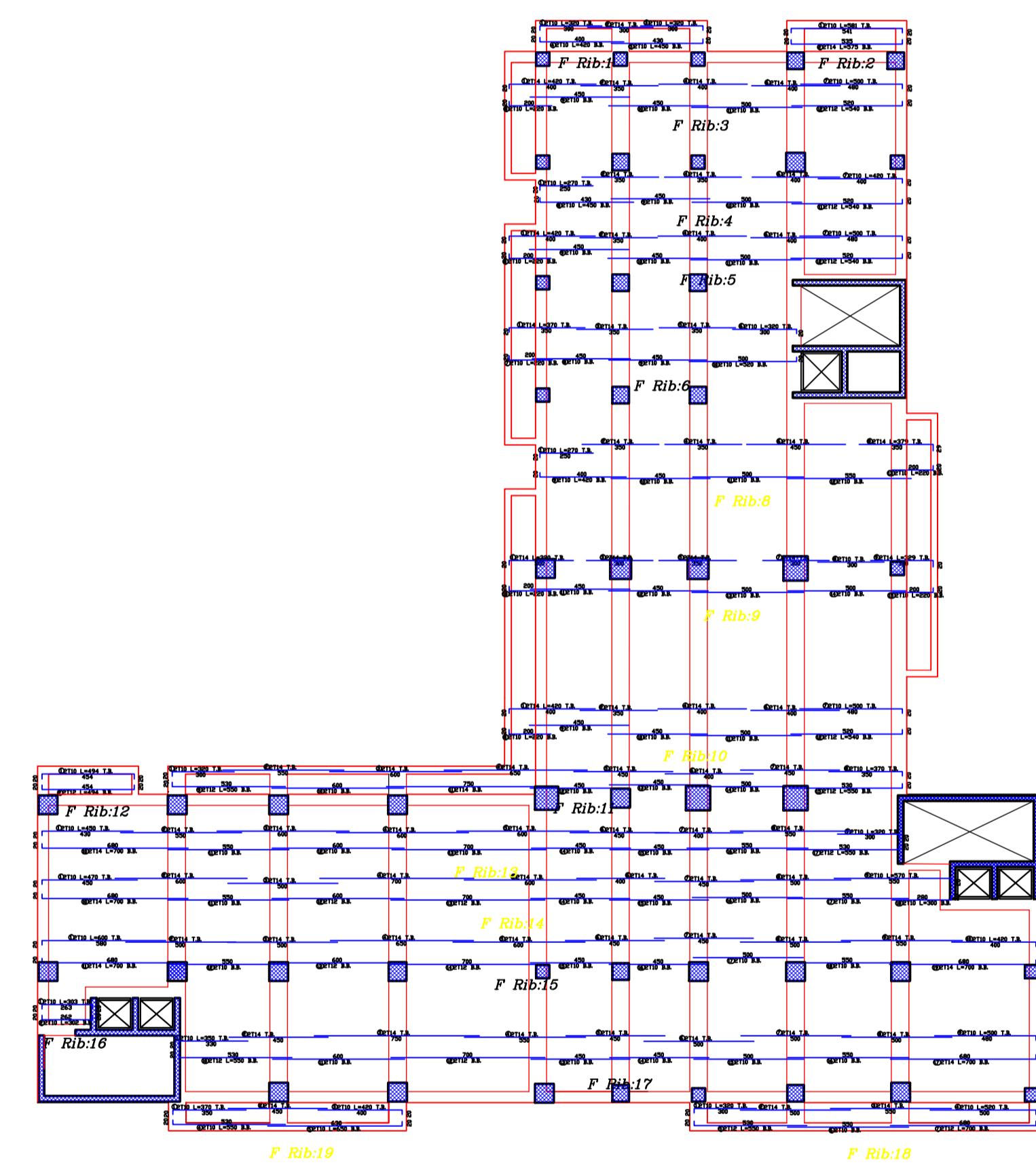
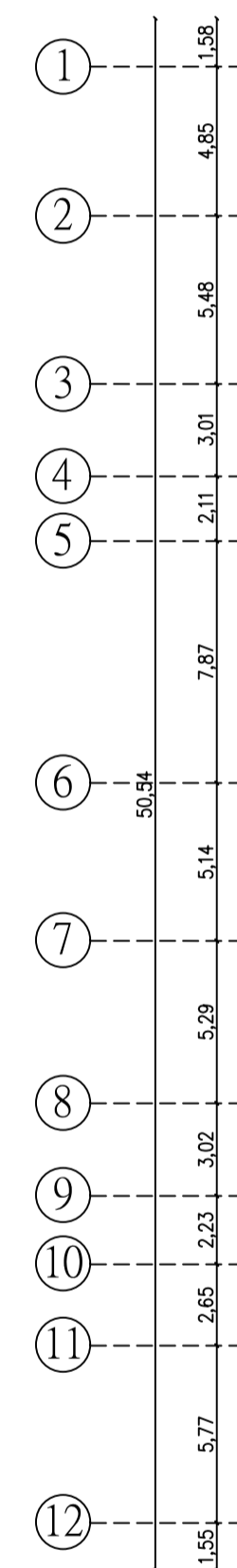
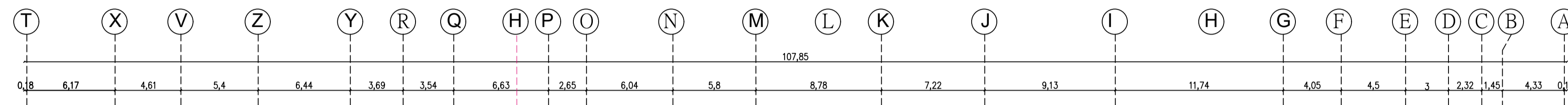
Supervisor

Dr.Maher Amro.

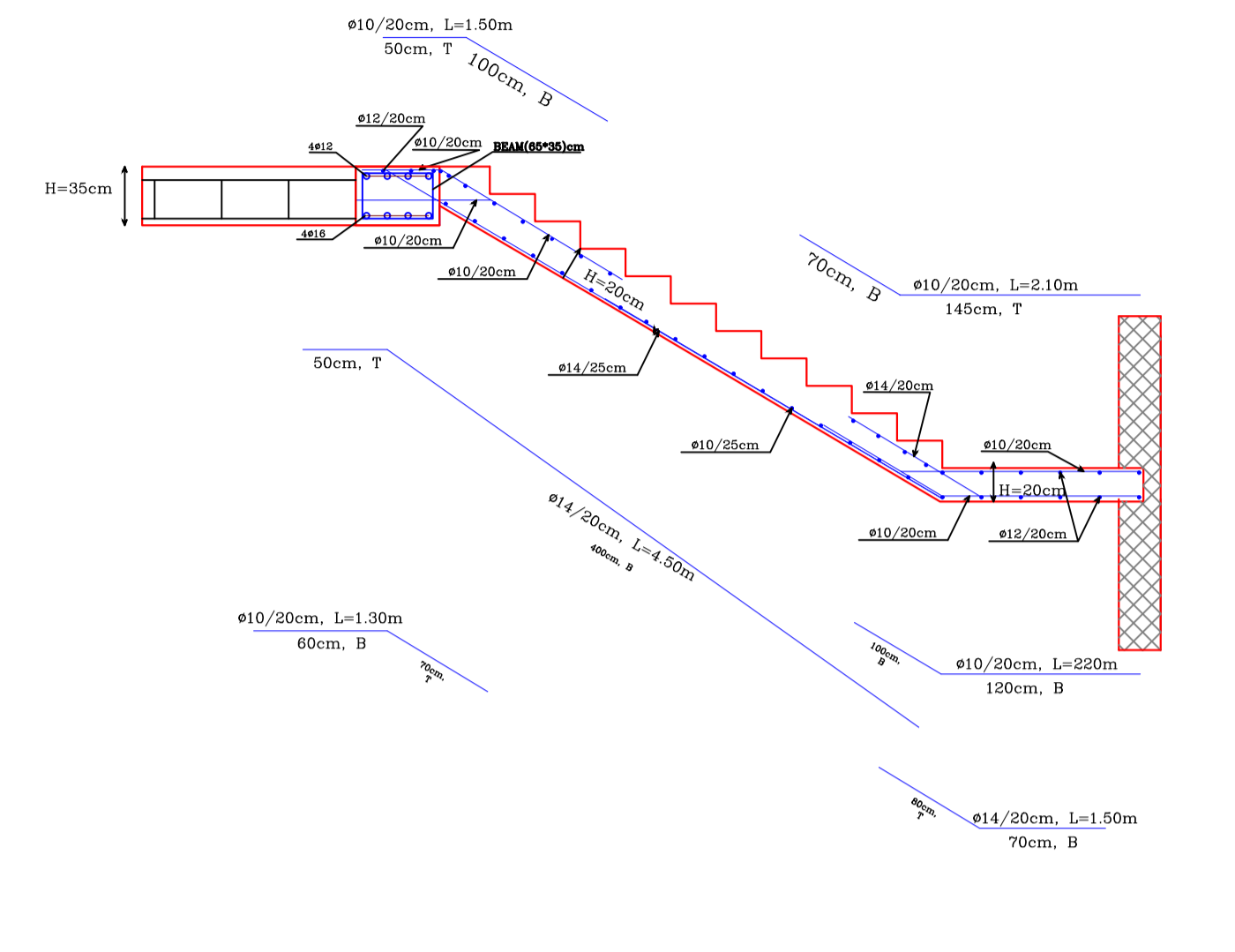
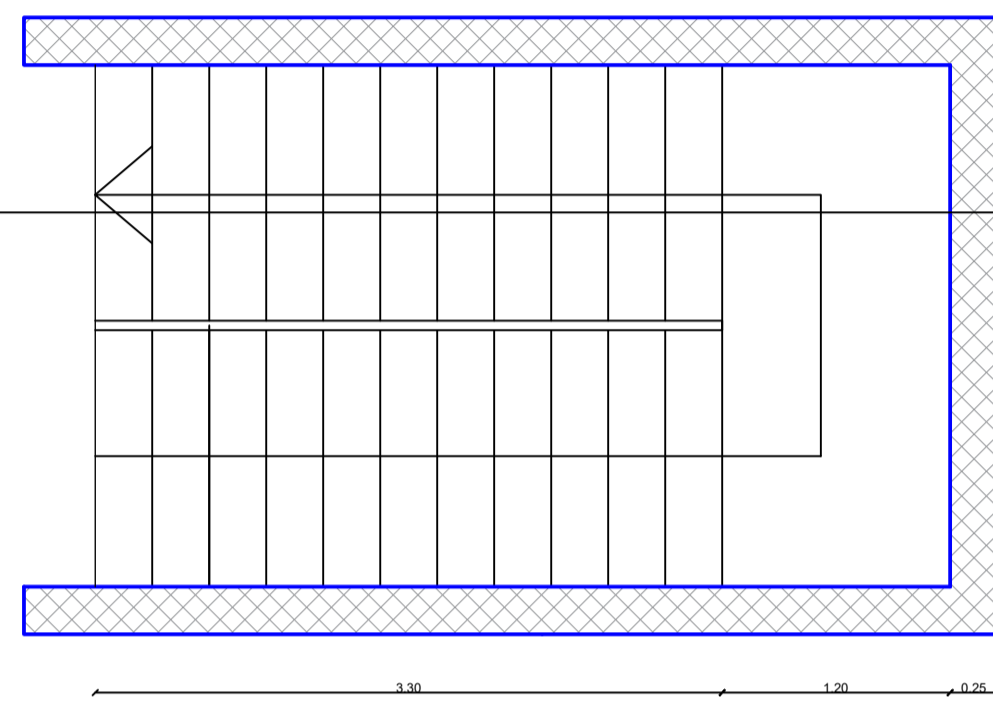
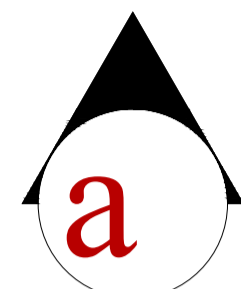
Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

SCALE	No. of DRAW	DATE
1/250	S12	21/1/2024



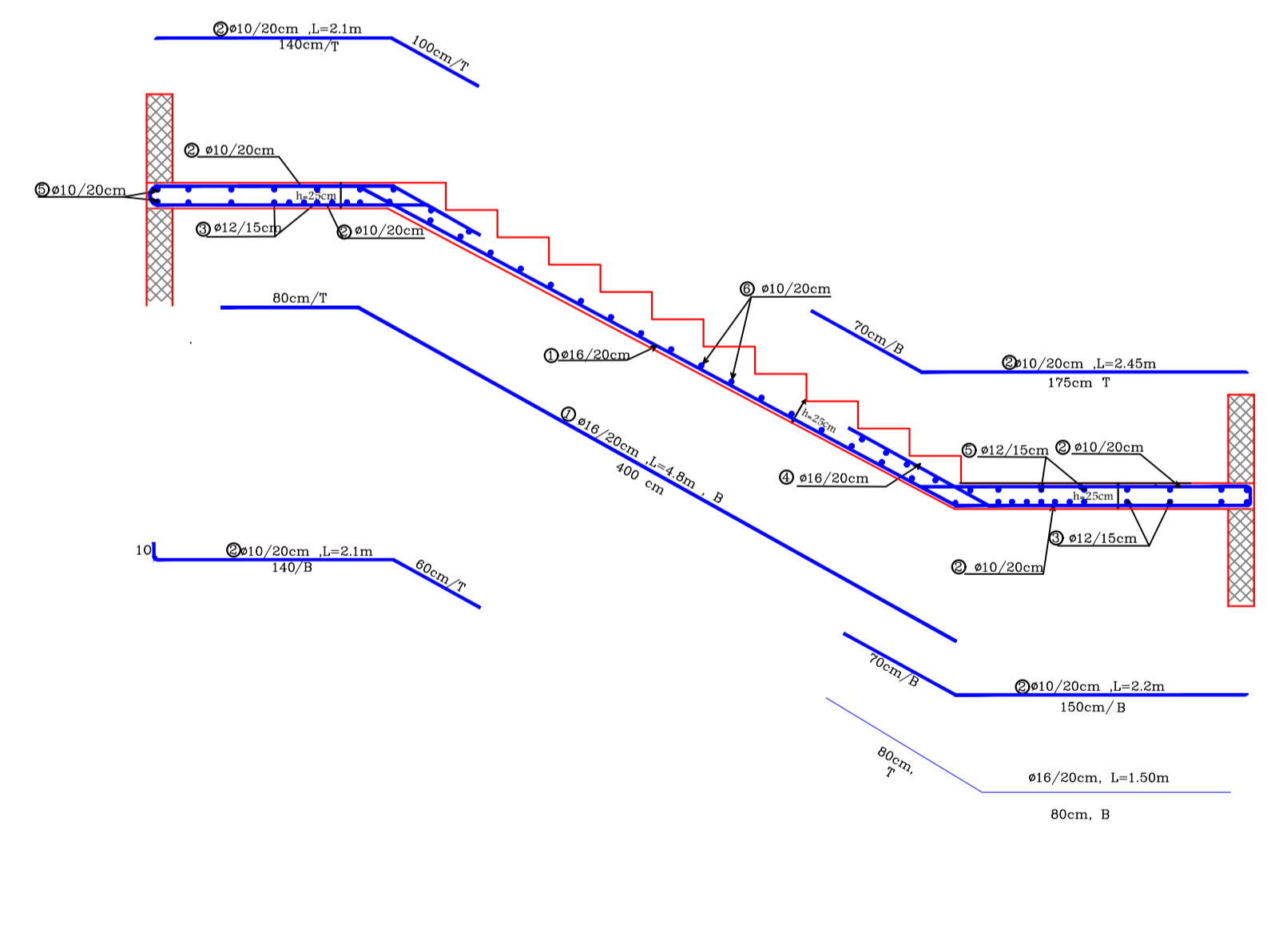
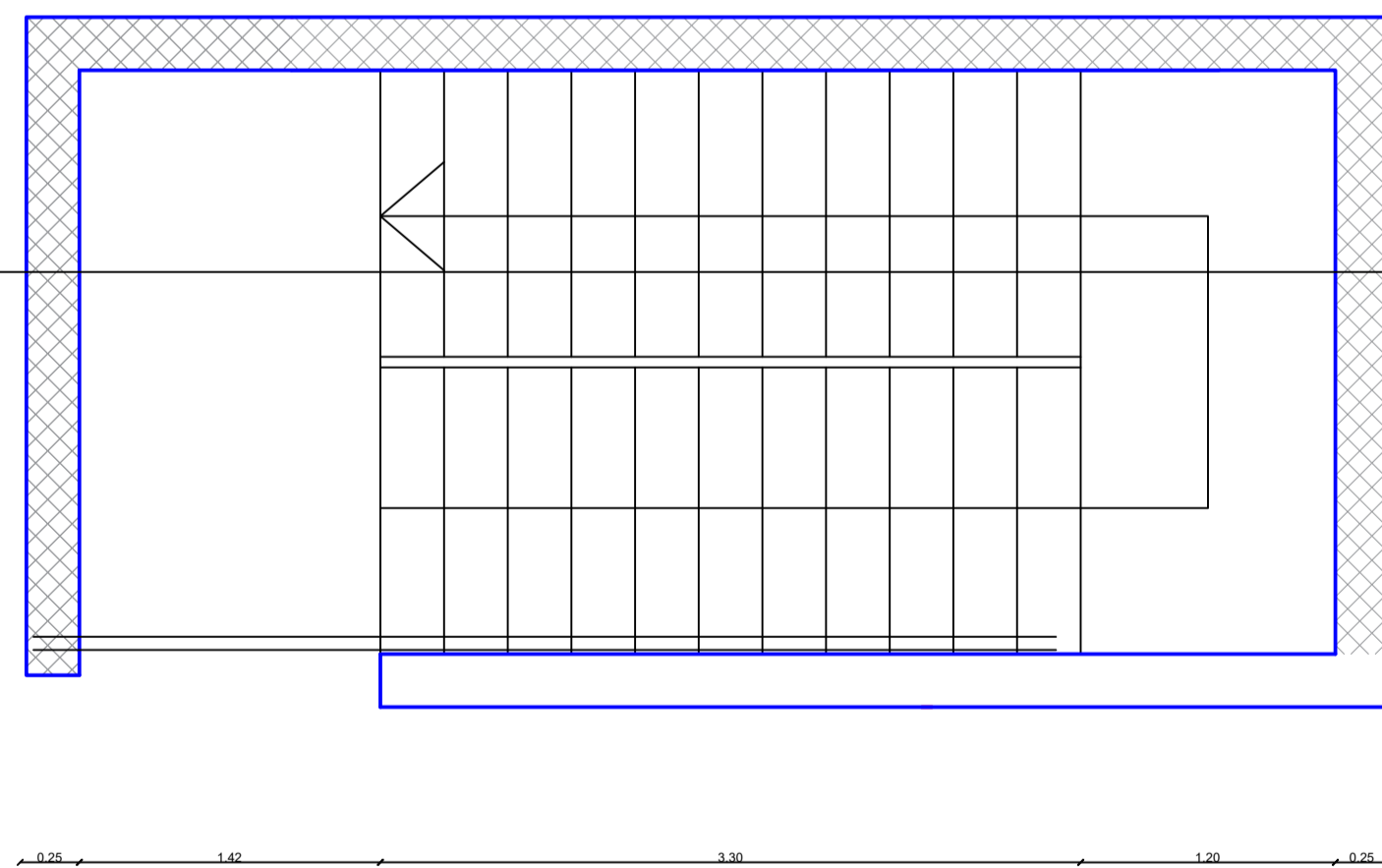
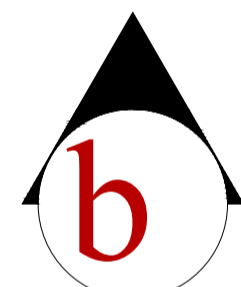
# STAIR #1



SECTION A-A

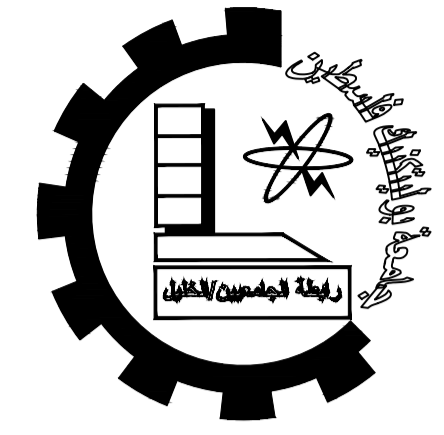
SCALE 1:20

# STAIR #2



SECTION b-b

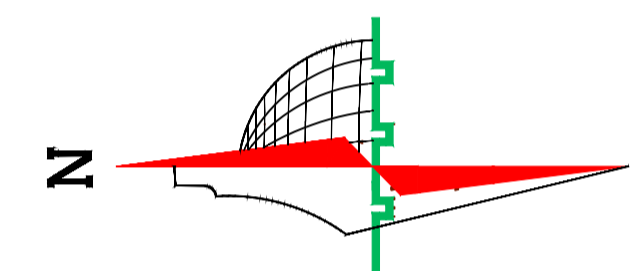
SCALE 1:20



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering

Graduation Project

IVORY  
HOTEL &  
RESORT



### Legend :

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

Stair 1&2

Supervisor

Dr.Maher Amro

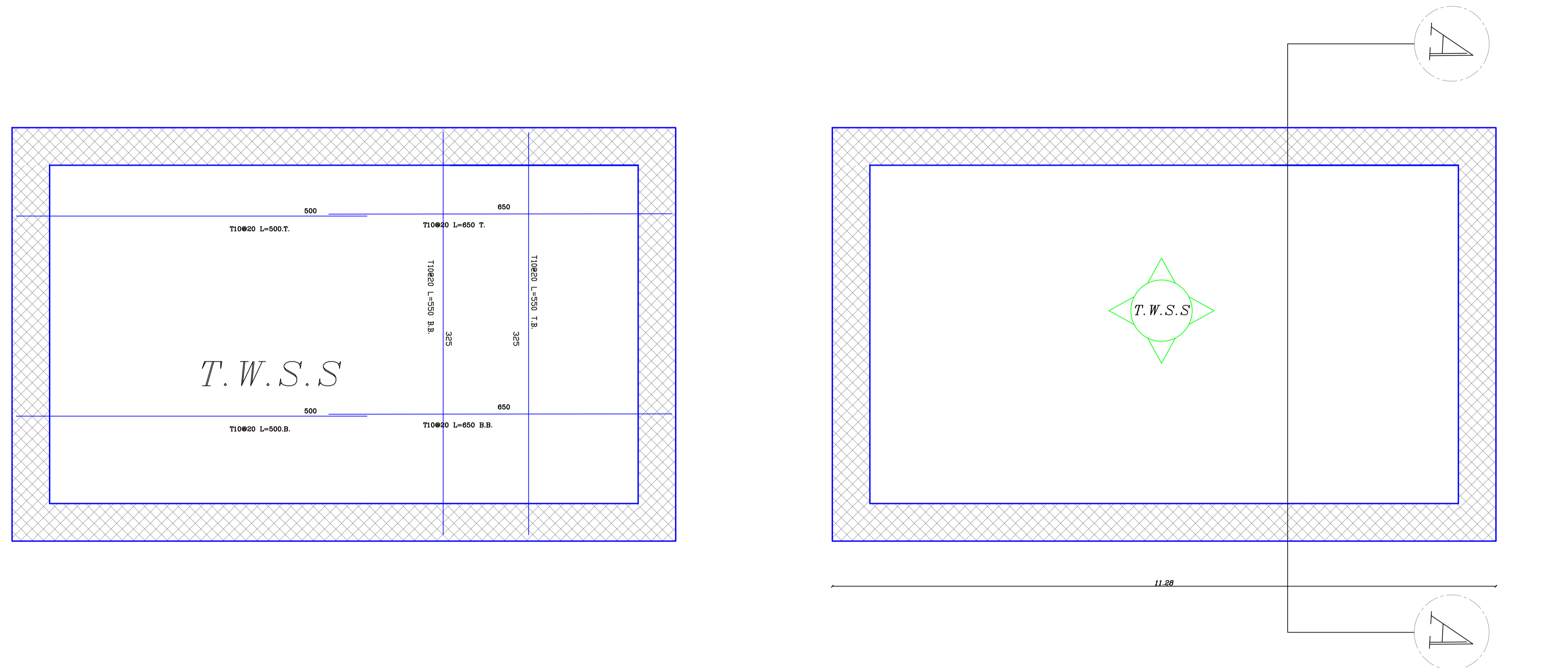
Done by :

Khaled najjar  
Nizar al sharaya  
islam mansrh

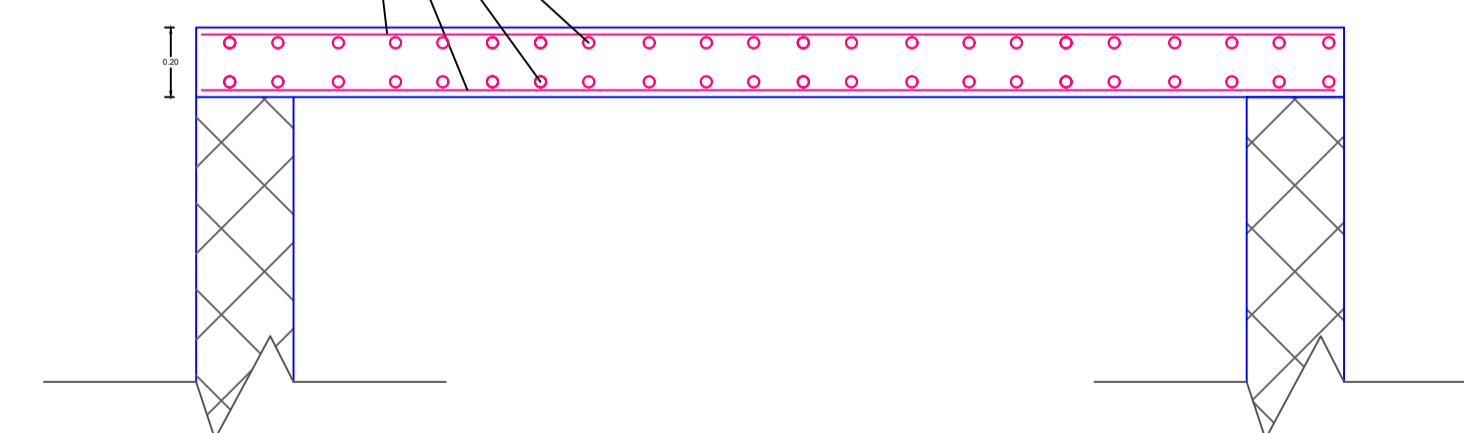
SCALE	No. of DRAW	DATE
1/250	S46	21/1/2024

# STAIRCASE FLOOR STEEL DISTRIBUTION & REINFORCEMENT

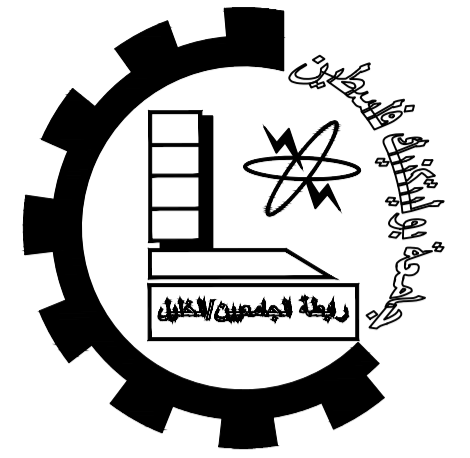
SCALE: 1/20



T&B  $\phi 10@20\text{cm}$



section A-A



Palestine Polytechnic University

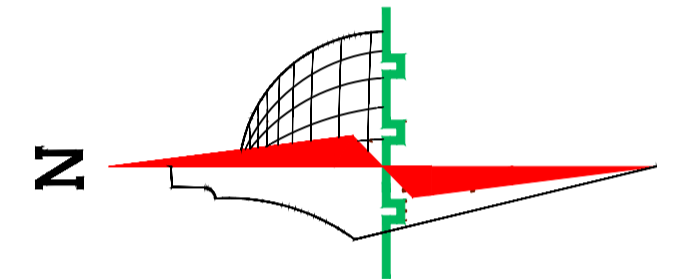
College of Engineering

Civil Engineering Department

Civil Engineering

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IVORY  
HOTEL &  
RESORT



### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

STEEL DIST & REIN

Supervisor

Dr.Maher Amro

Done by :

*Khaled najjar*

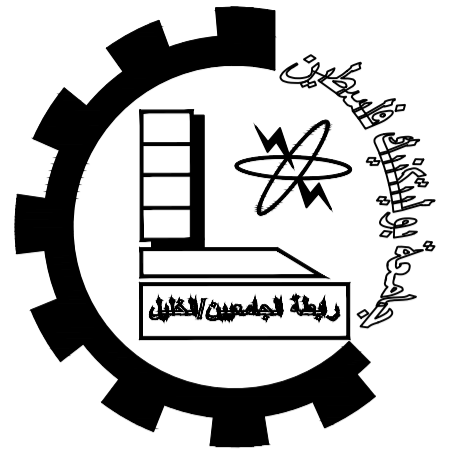
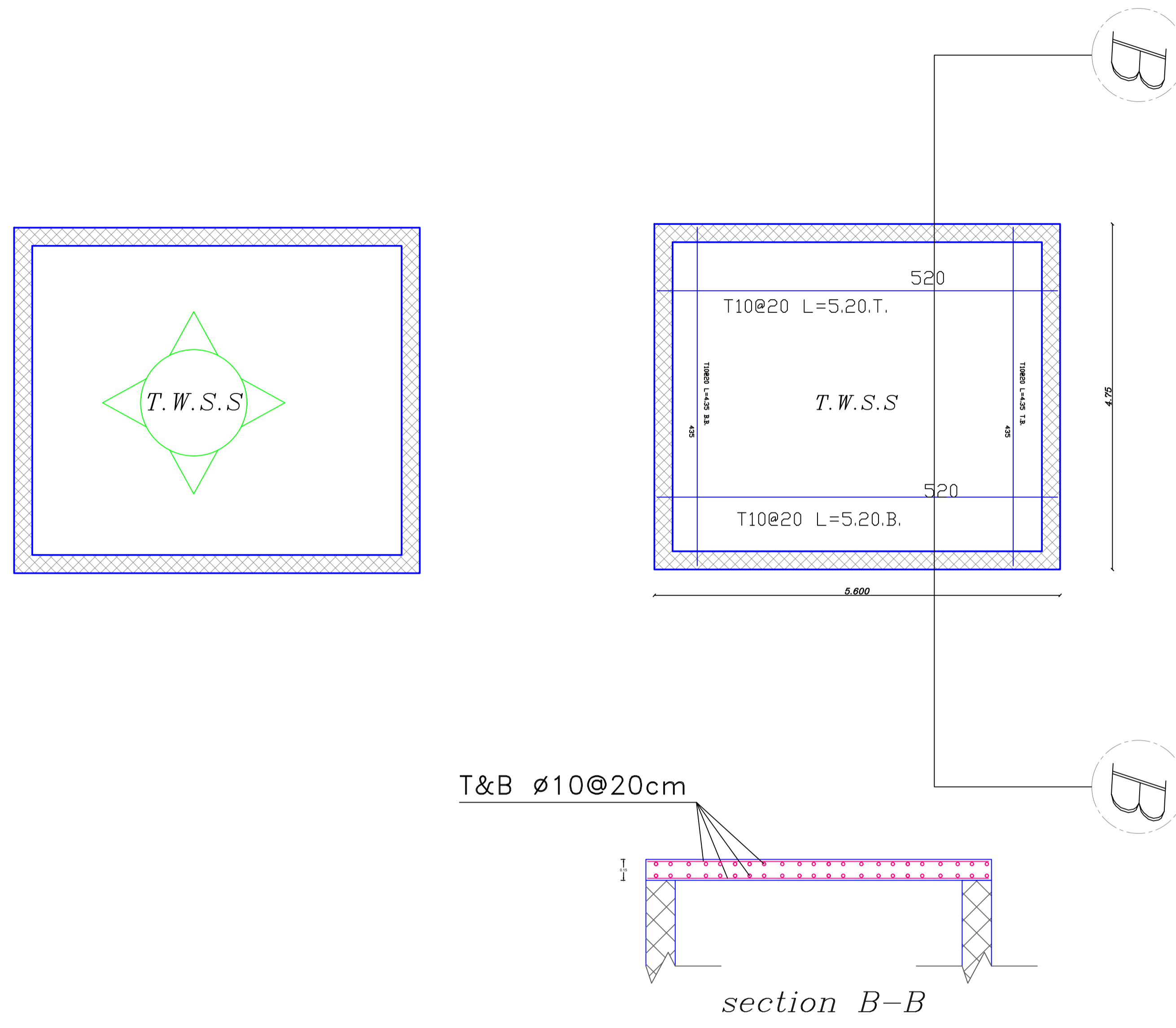
*Nizar al sharaya*

*islam mansrh*

SCALE	No. of DRAW	DATE
1/250	S47	21/1/2024

# STAIRCASE FLOOR STEEL DISTRIBUTION & REINFORCEMENT

SCALE: 1/20



Palestine Polytechnic University

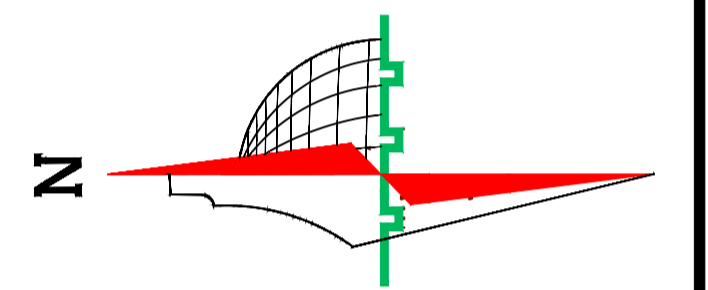
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

IVORY  
HOTEL &  
RESORT



## Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

STEEL DIST & REIN

Supervisor

Dr.Maher Amro

Done by :

Khaled najjar

Nizar al sharaya

islam mansrh

SCALE	No. of DRAW	DATE
1/250	S48	21/1/2024