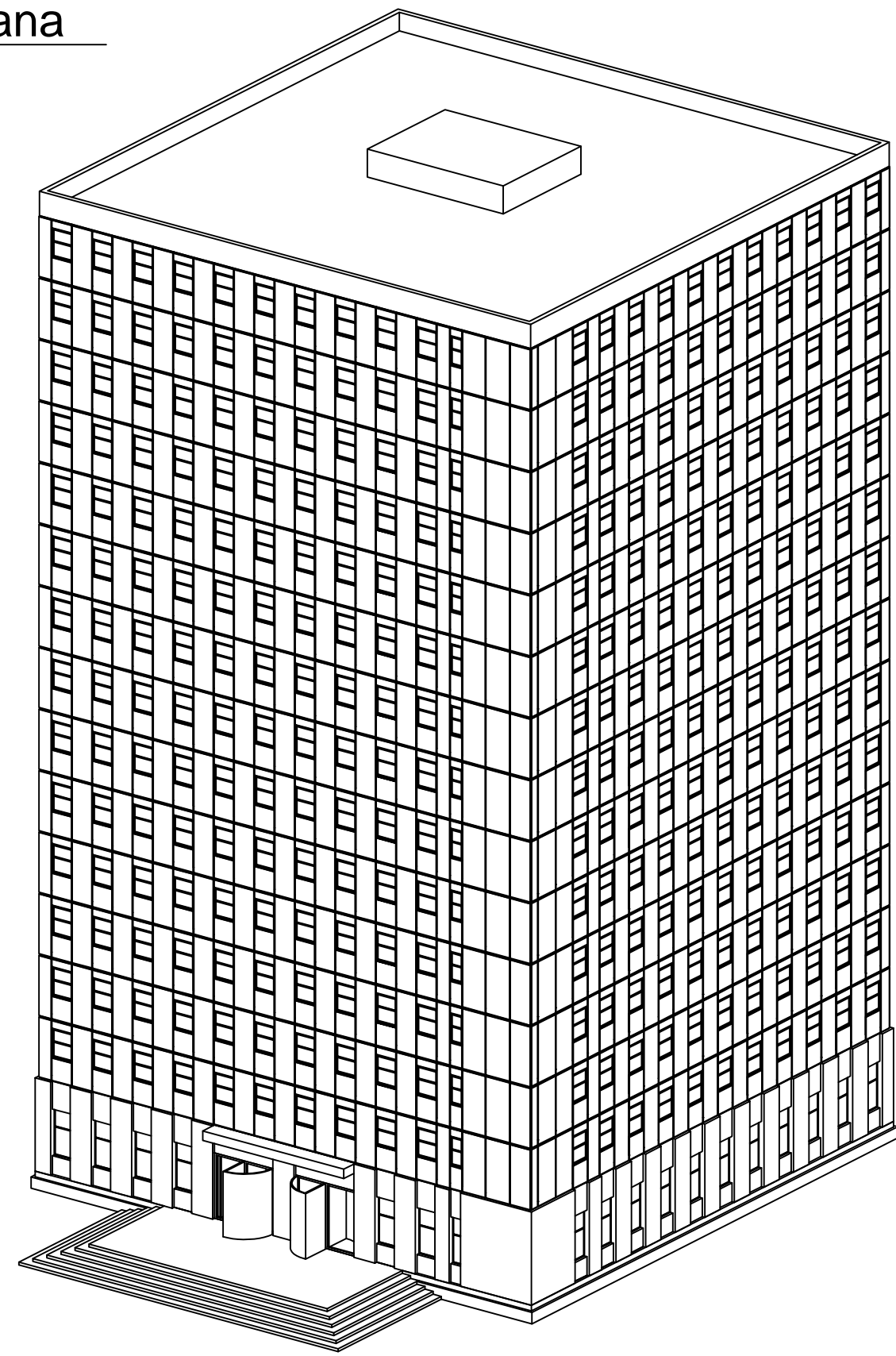


A0

# Utopia Hotel Astana

Scale 1:250



Energy Efficient Construction

Civil Engineering Department

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**Shazim Ali Memon**  
Adviser

**Hau Leung**  
Marker

**Jong Kim**  
Marker

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Zauzat Zeken  
201202909

### Project

**Utopia Hotel Astana**  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

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### Sheet Title

**Hotel Building**

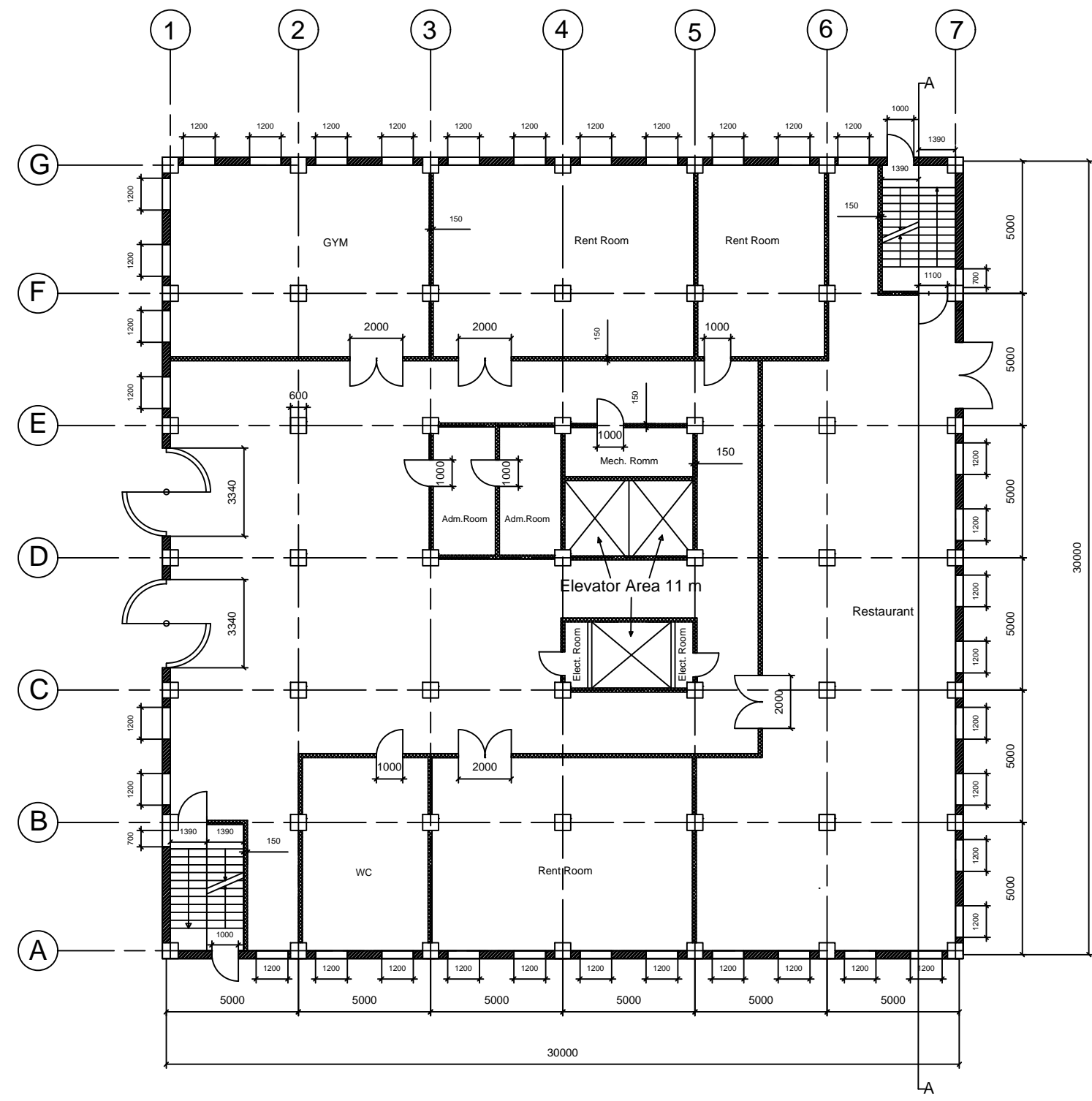
A - 100

Sheet 0 of 8

A1

# First Floor Plan

Scale 1:175



Energy Efficient Construction

Civil Engineering Department

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Project

**Utopia Hotel Astana**  
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Astana, Kazakhstan

Project NO: 001

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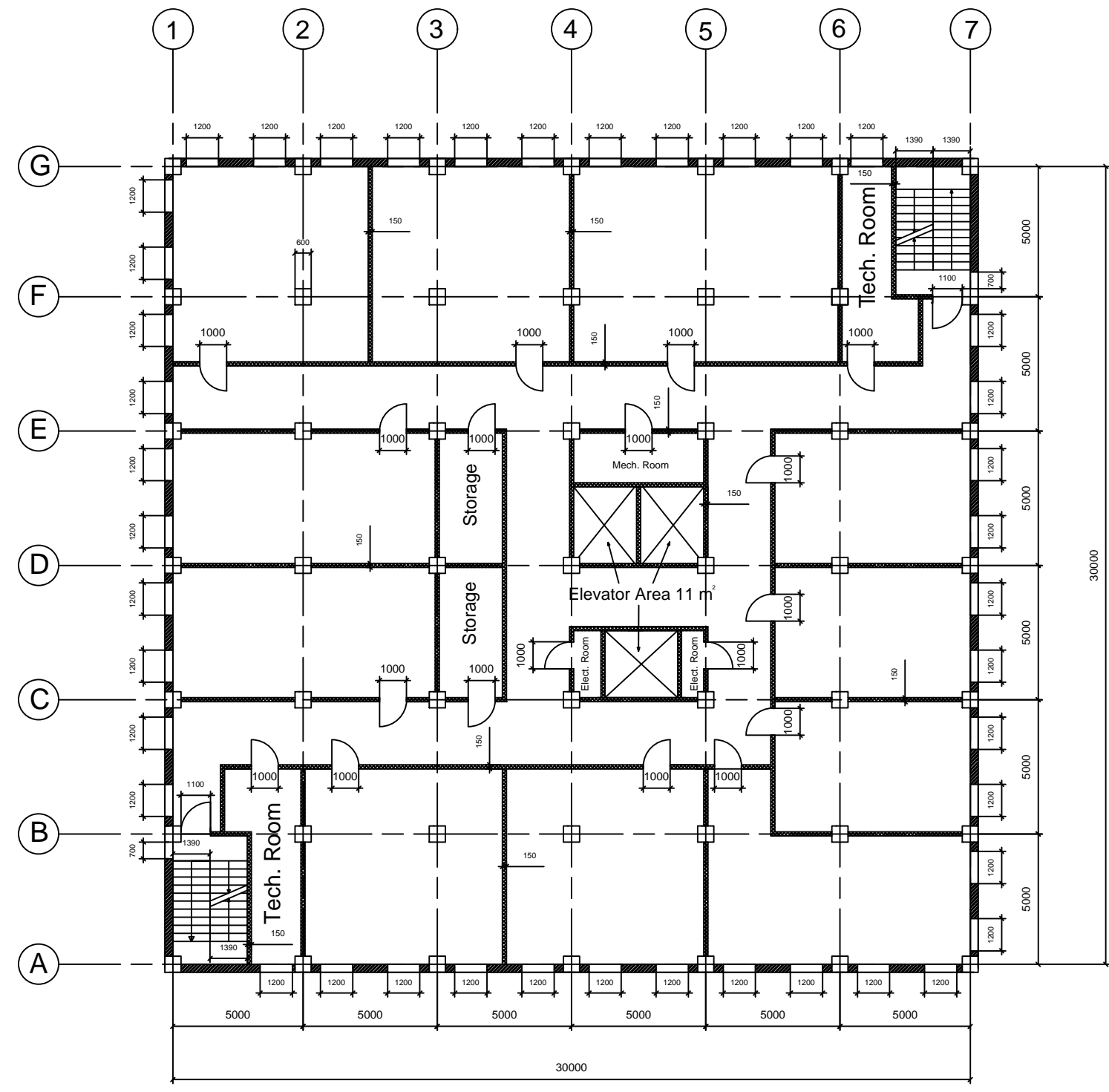
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**First Floor Plan**

A - 101

Sheet 1 of 8

**A2 Typical Floor Plan**  
Scale 1:175



Civil Engineering Department

Consultants

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Project

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15-story hotel building

Astana, Kazakhstan

Project NO: 001

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Sheet Title

**Typical Floor Plan**

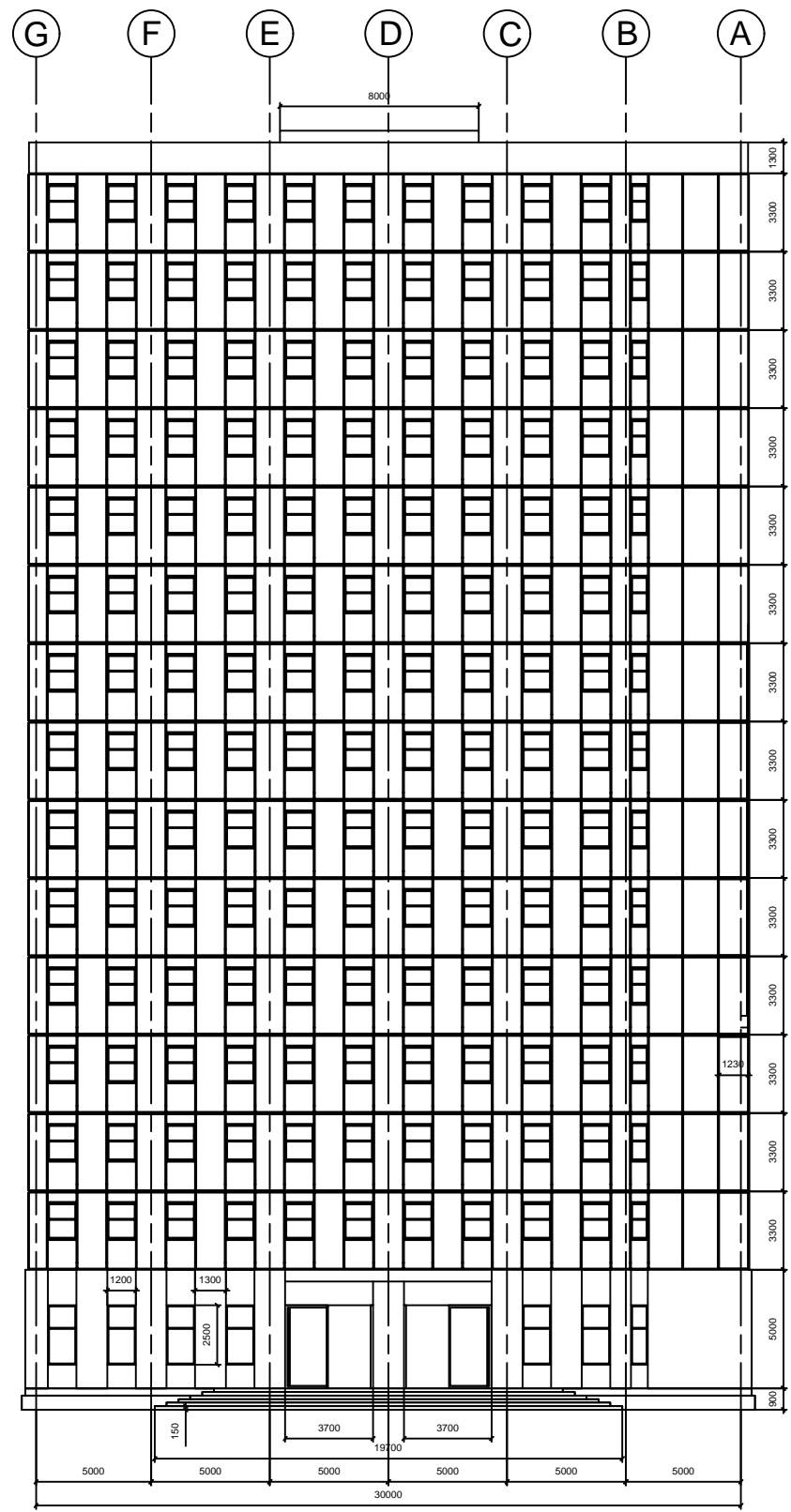
A - 102

Sheet 2 of 8

A3

# Front View

Scale 1:250



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Zauzat Zeken  
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### Project

**Utopia Hotel Astana**  
15-story hotel building

**Astana, Kazakhstan**

Project NO: 001

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### Sheet Title

**Front View**

A - 103

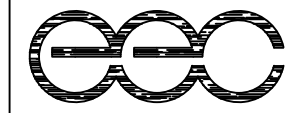
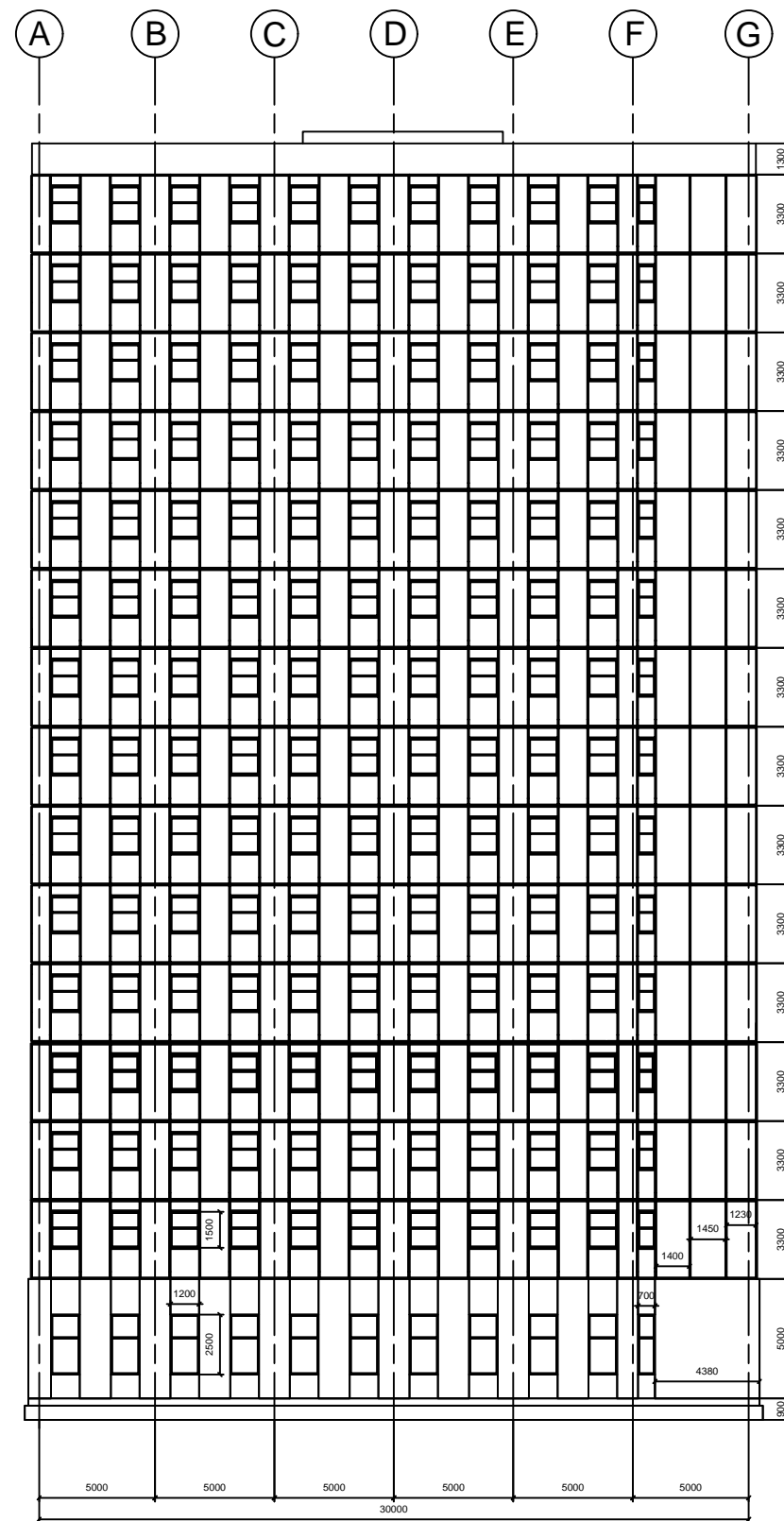
Sheet 3 of 8



A5

# Back View

Scale 1:250



Energy Efficient Construction

Civil Engineering Department

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Project

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15-story hotel building

Astana, Kazakhstan

Project NO: 001

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Sheet Title

**Back View**

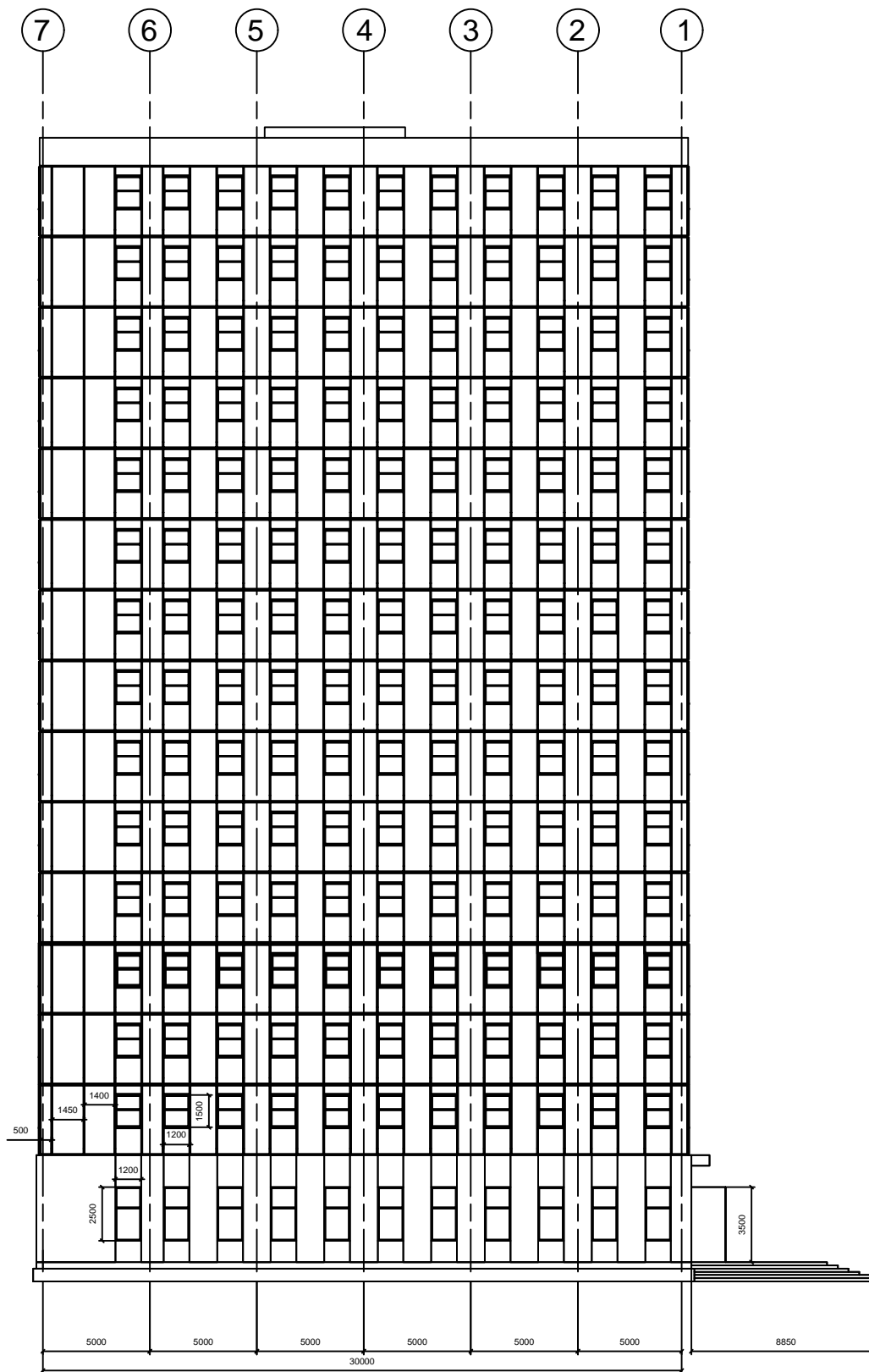
A - 105

Sheet 5 of 8

A6

# Left View

Scale 1:250



Energy Efficient Construction

Civil Engineering Department

Consultants

**Shazim Ali Memon**  
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Project

**Utopia Hotel Astana**  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

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Sheet Title

**Left View**

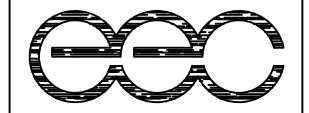
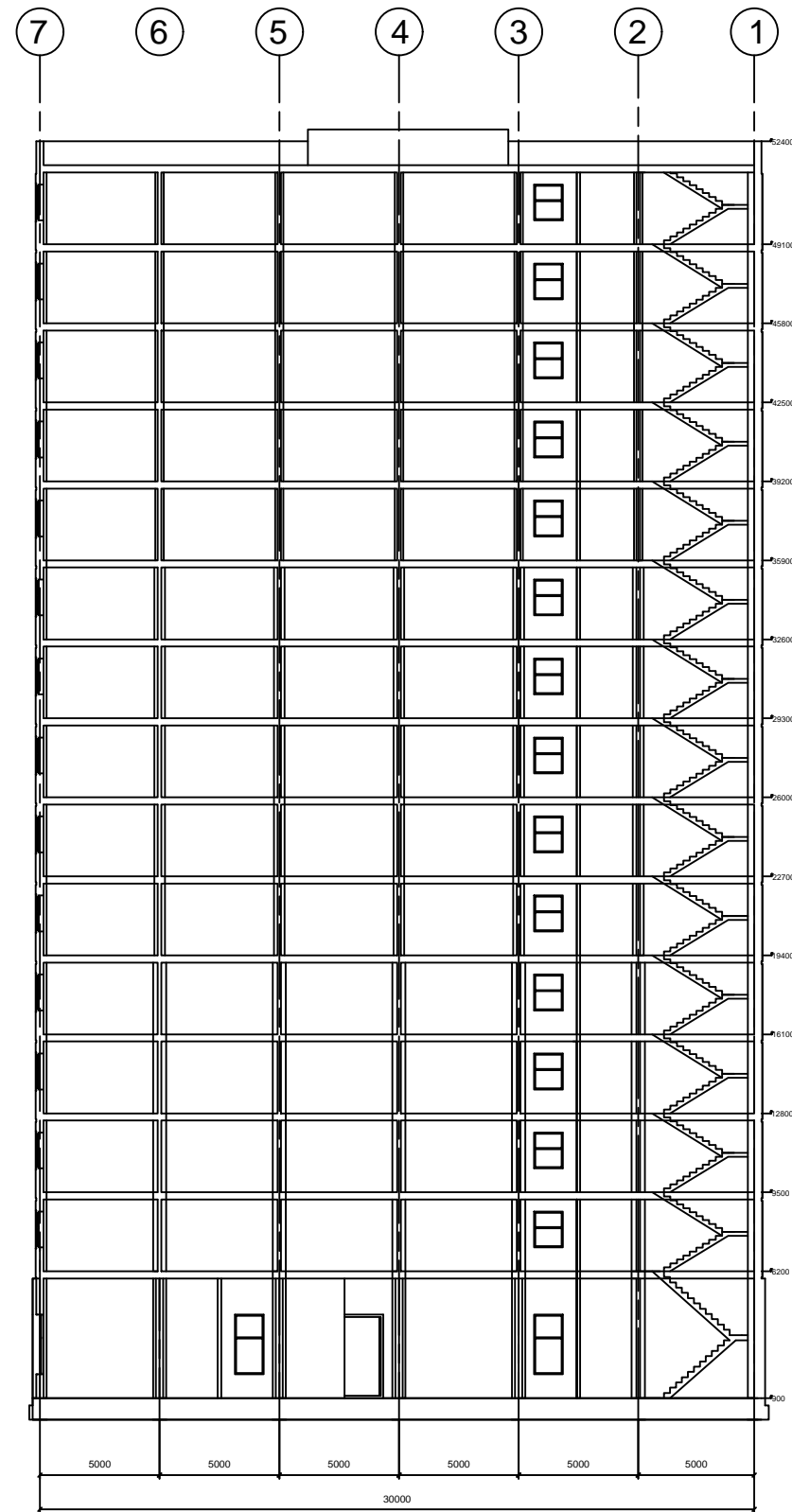
A - 106

Sheet 6 of 8

A7

# A-A Section

Scale 1:250



Energy Efficient Construction

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Project

**Utopia Hotel Astana**  
15-story hotel building

**Astana, Kazakhstan**

Project NO: 001

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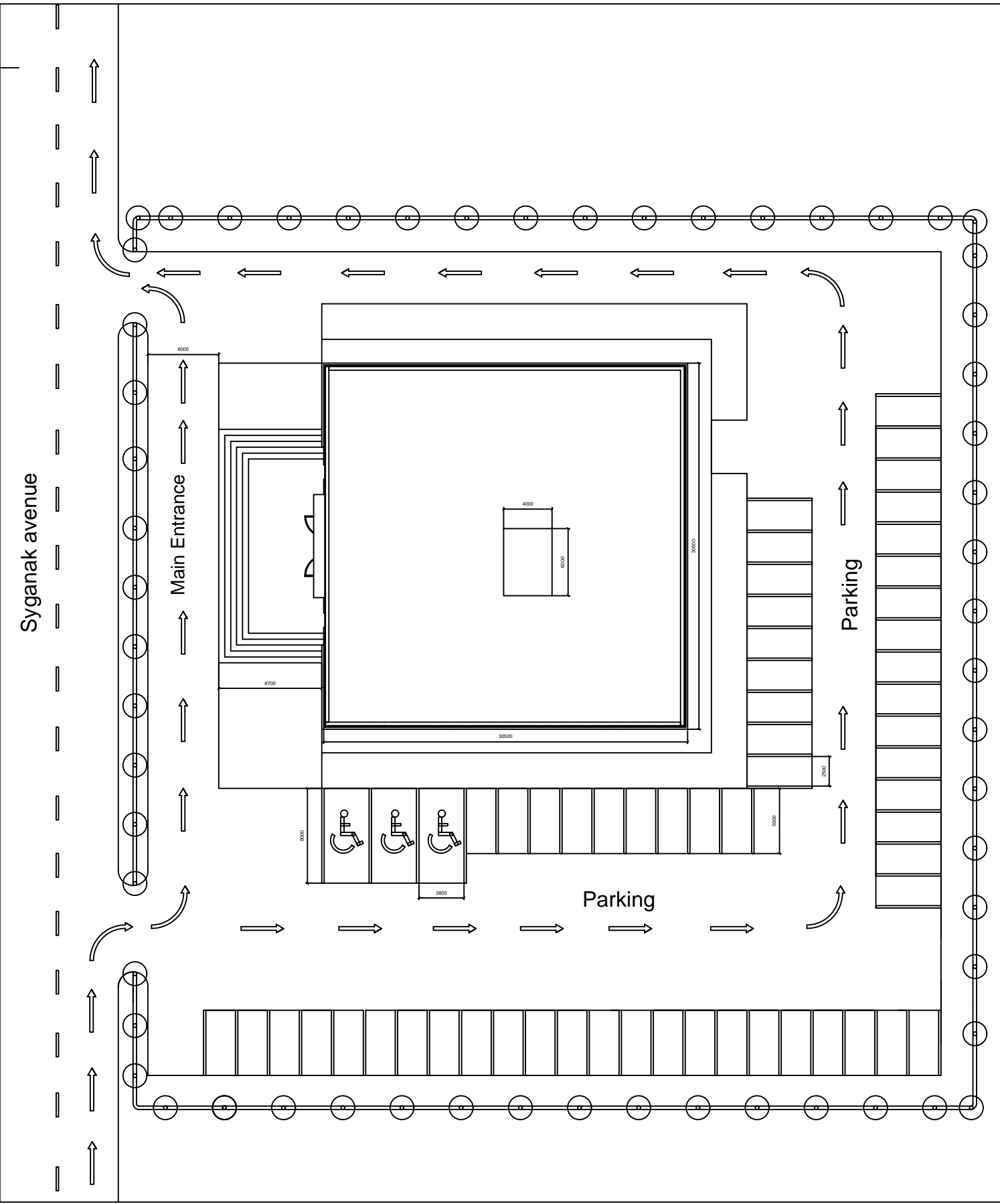
Sheet Title

**A-A Section**

A - 107

Sheet 7 of 8

**A2** **Site Layout**  
Scale 1:400



Civil Engineering Department

Consultants

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Project

**Utopia Hotel Astana**  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

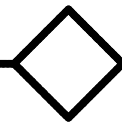
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Sheet Title

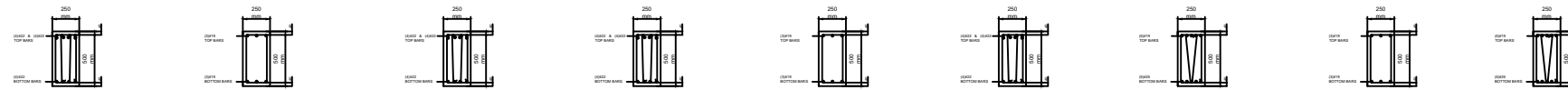
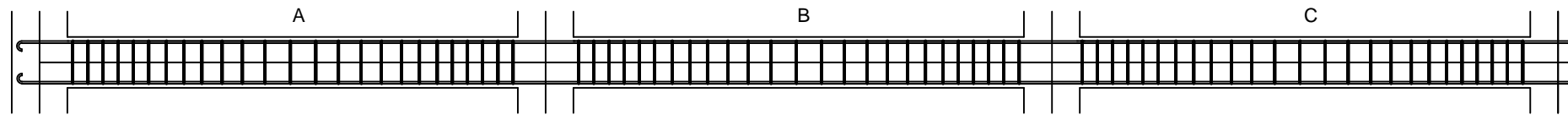
**Site Layout**

A - 108

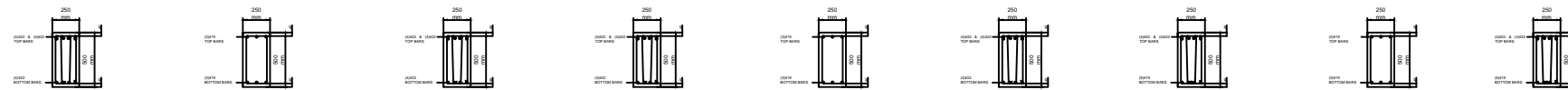
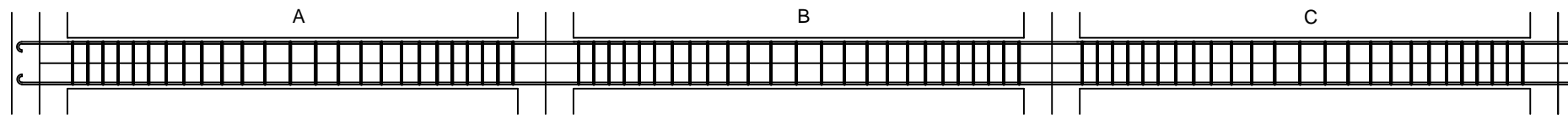
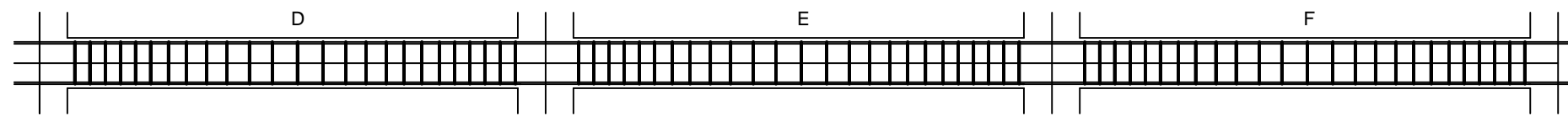
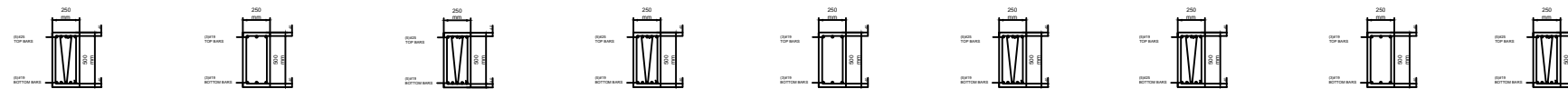
Sheet 8 of 8



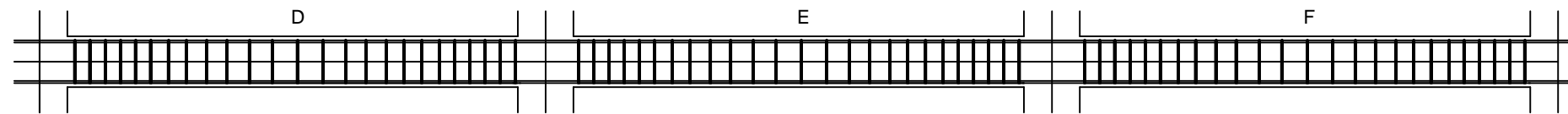
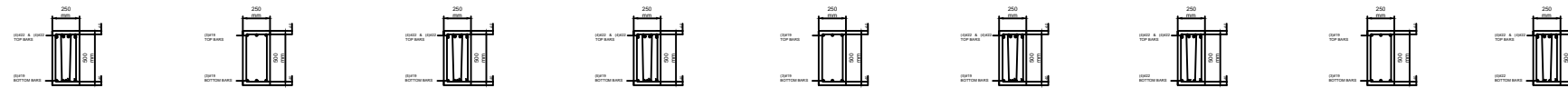
# Reinforced Beam Design



LEVEL 1



LEVEL 2



Energy Efficient Construction

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Jong Kim  
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Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

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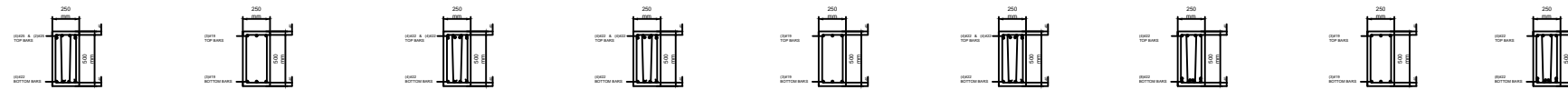
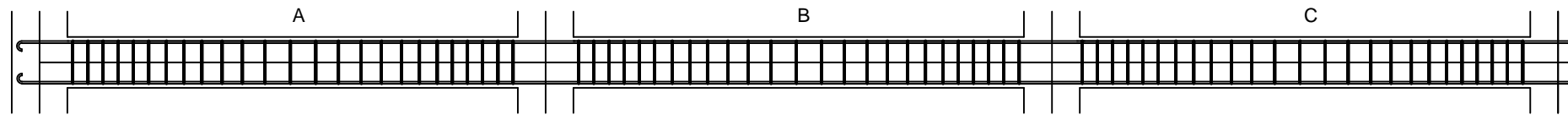
Sheet Title

Reinforced beam  
design of levels 1 and 2

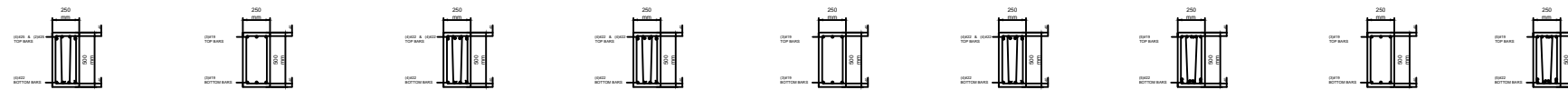
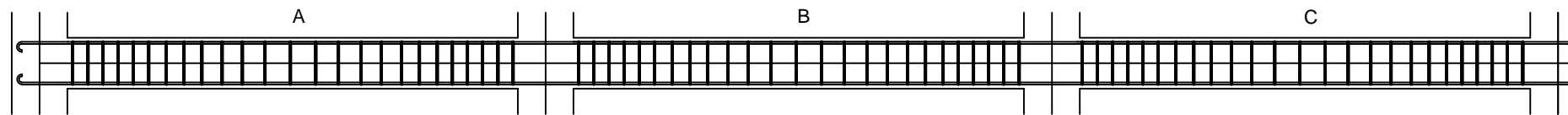
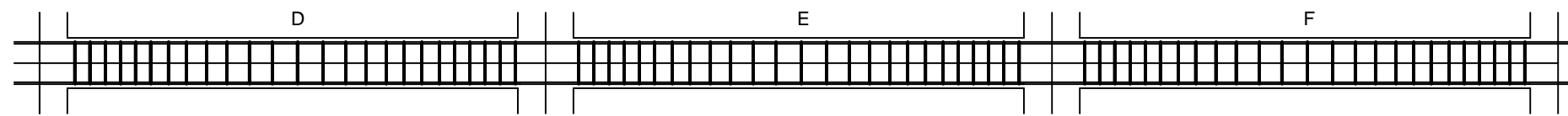
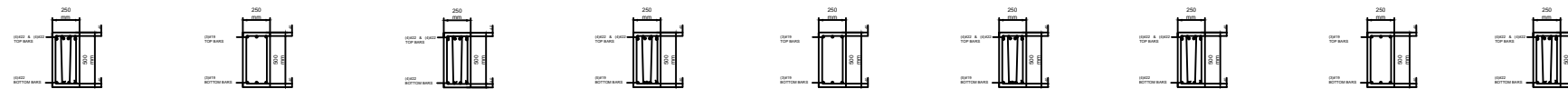
A - 101

Sheet 1

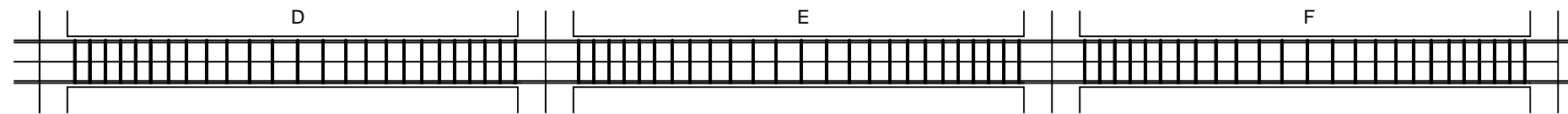
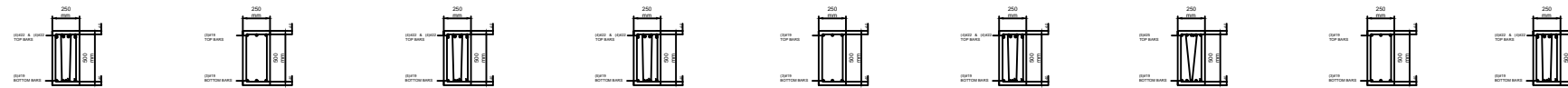
# Reinforced Beam Design



LEVEL 3



LEVEL 4



Energy Efficient Construction

Civil Engineering Department

Consultants

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Adviser

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Marker

Jong Kim  
Marker

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Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

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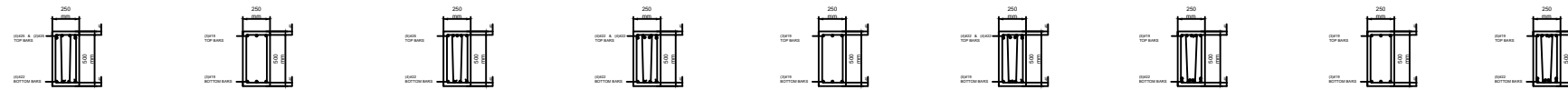
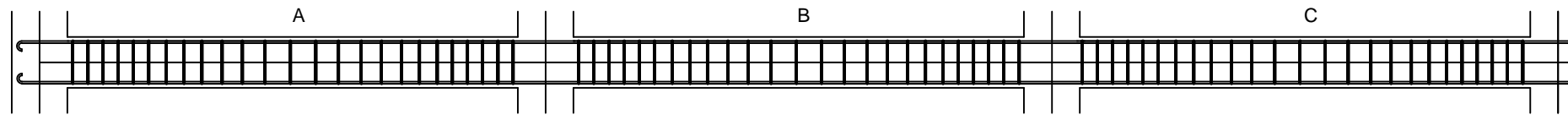
Sheet Title

Reinforced beam  
design of levels 3 and 4

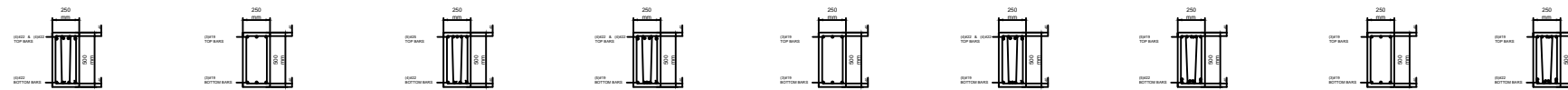
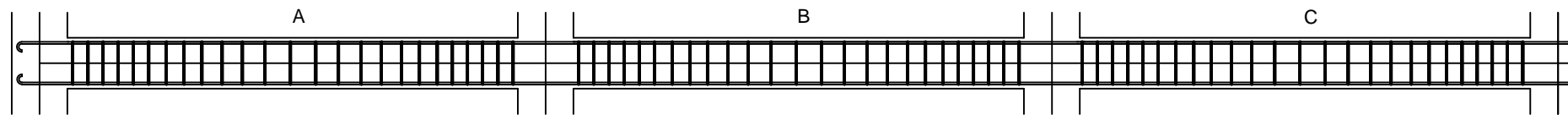
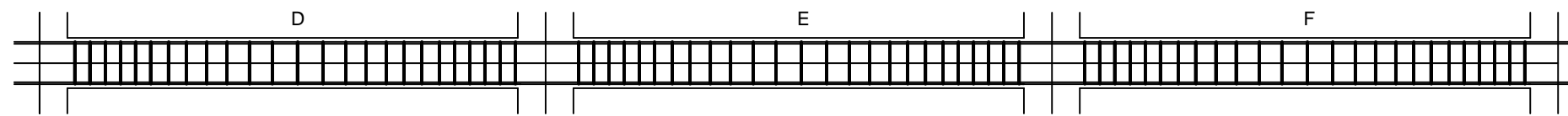
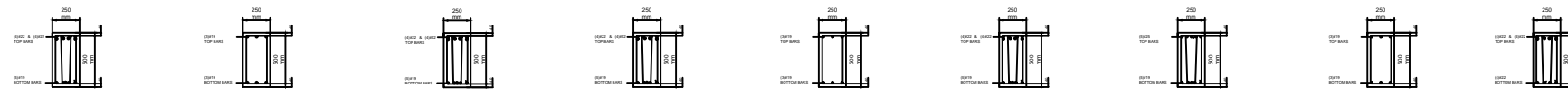
A - 101

Sheet 2

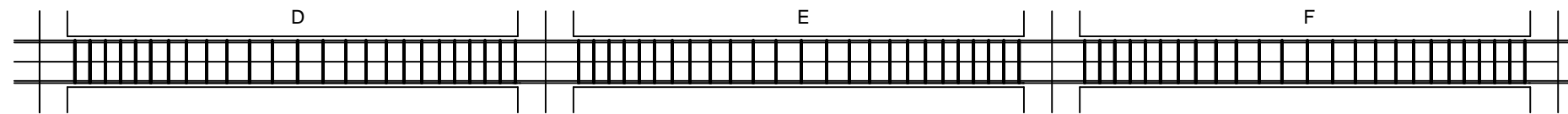
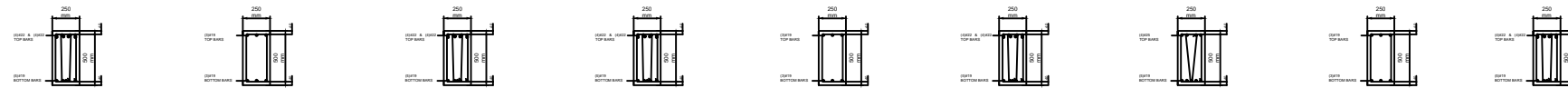
# Reinforced Beam Design



LEVEL 5



LEVEL 6



Energy Efficient Construction

Civil Engineering Department

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Jong Kim  
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Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

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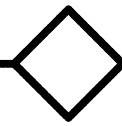
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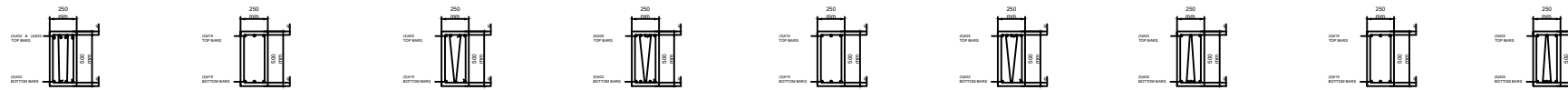
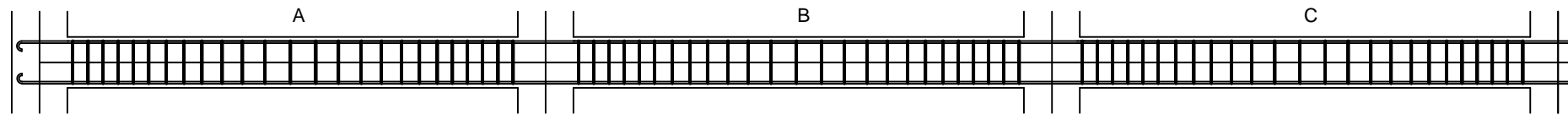
Reinforced beam  
design of levels 5 and 6

A - 101

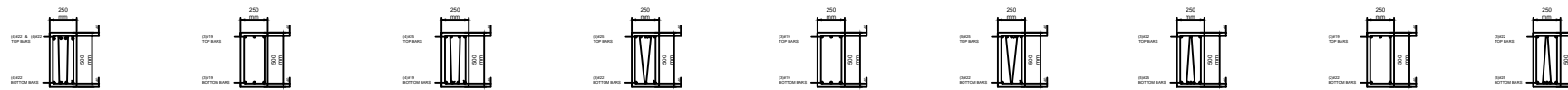
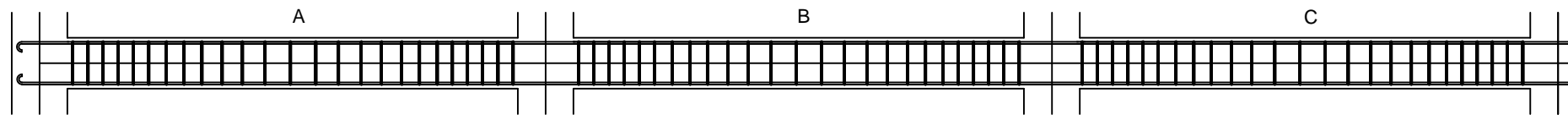
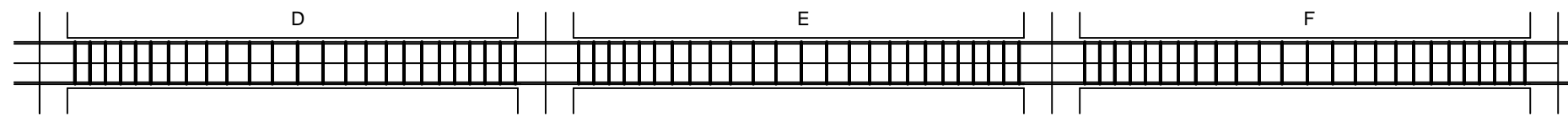
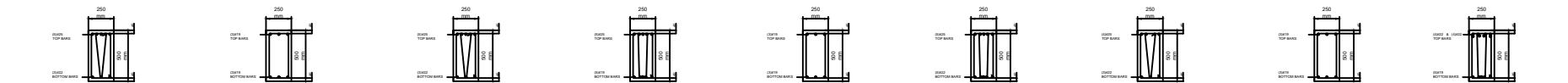
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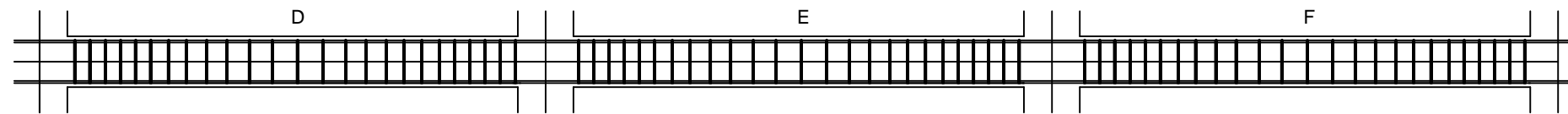
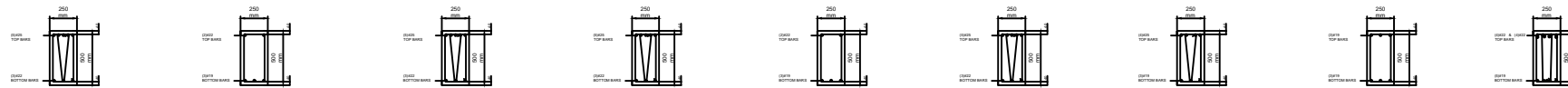
# Reinforced Beam Design



LEVEL 7



LEVEL 8



Energy Efficient Construction

Civil Engineering Department

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Adviser

Hau Leung  
Marker

Jong Kim  
Marker

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Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

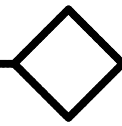
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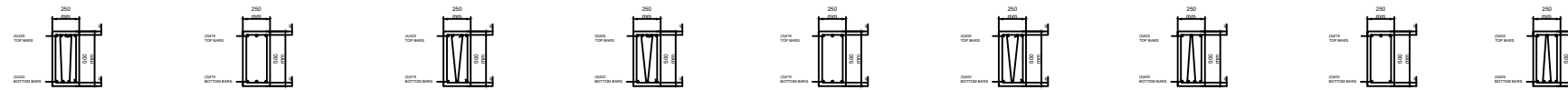
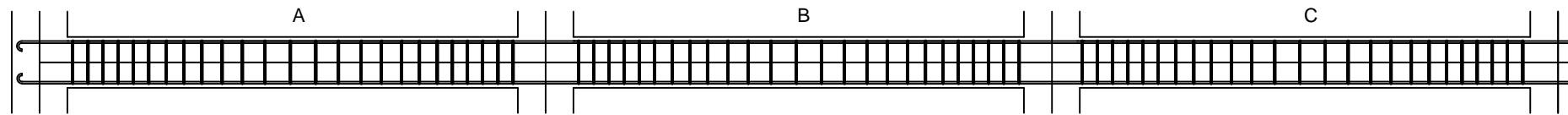
Reinforced beam  
design of levels 7 and 8

A - 101

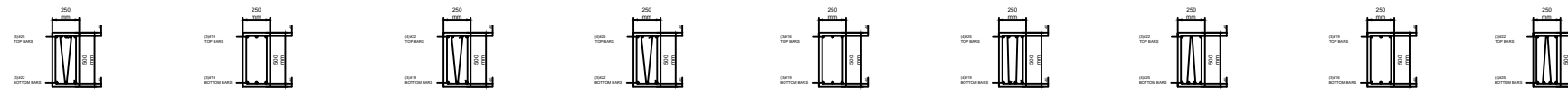
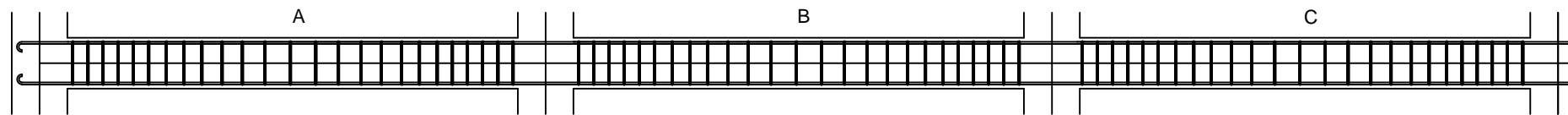
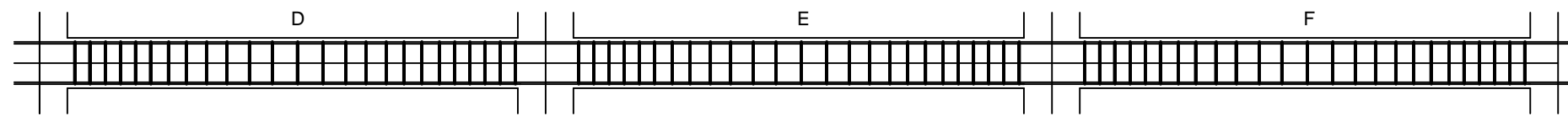
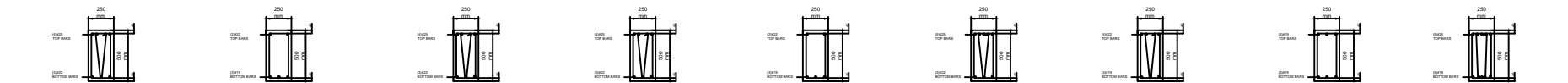
Sheet 4



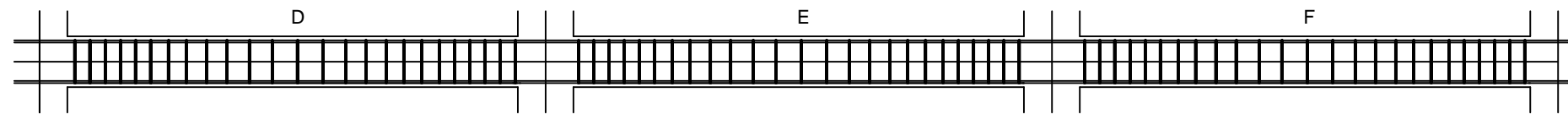
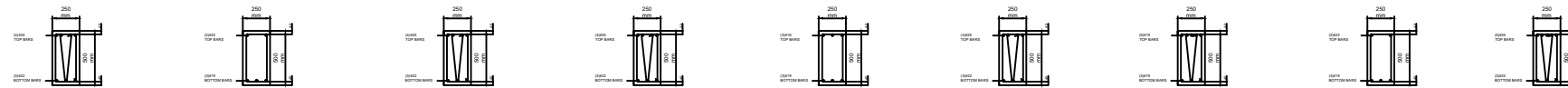
# Reinforced Beam Design



LEVEL 9



LEVEL 10



Energy Efficient Construction

Civil Engineering Department

Consultants

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Adviser

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Marker

Jong Kim  
Marker

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201201546

Zarina Zharaspayeva  
201201930

Zauzat Zeken  
201202909

Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

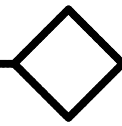
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Sheet Title

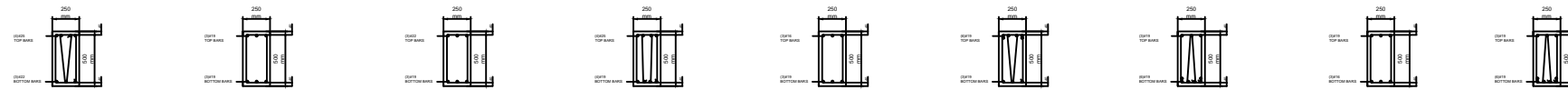
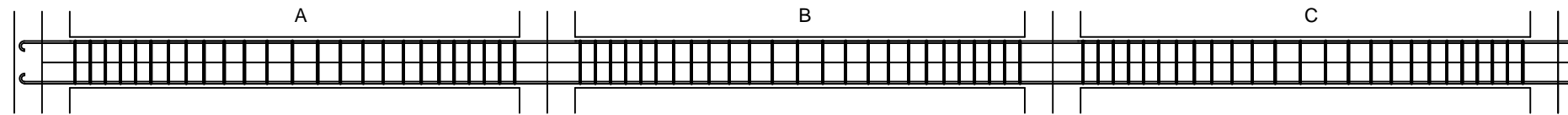
Reinforced beam design  
of levels 9 and 10

A - 101

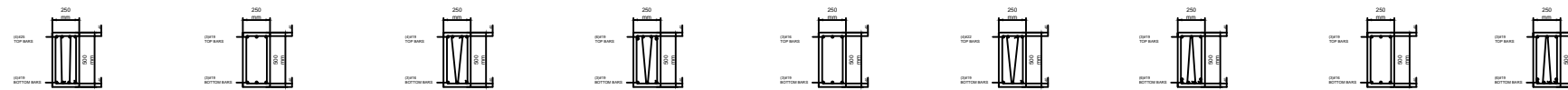
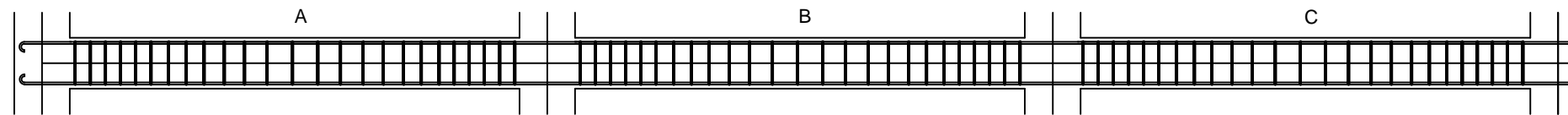
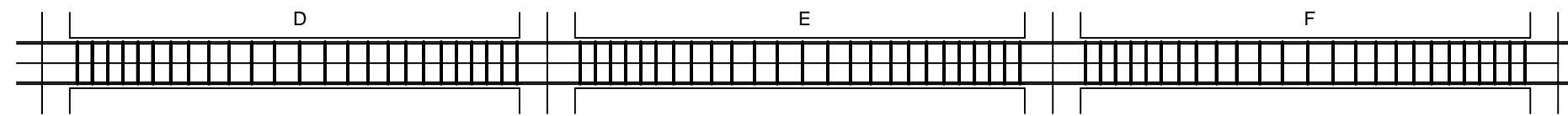
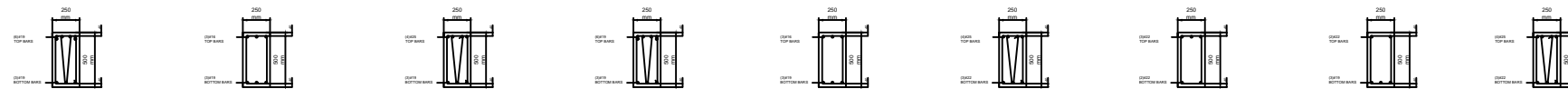
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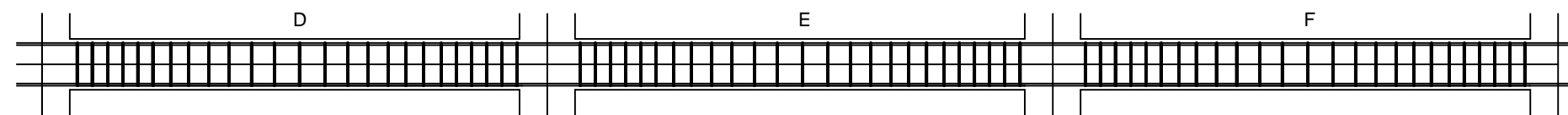
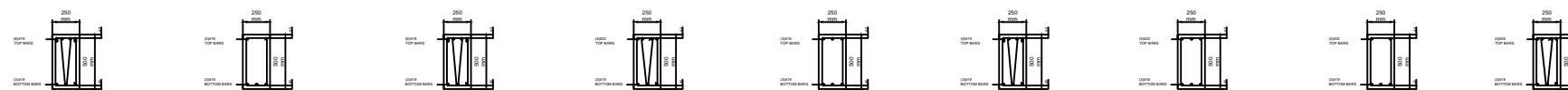
# Reinforced Beam Design



LEVEL 11



LEVEL 12



Energy Efficient Construction

Civil Engineering Department

Consultants

Shazim Ali Memon  
Adviser

Hau Leung  
Marker

Jong Kim  
Marker

Group members

Amire Anuarbek  
201202524

Nurassyl Battalgazy  
201201546

Zarina Zharaspayeva  
201201930

Zauzat Zeken  
201202909

Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

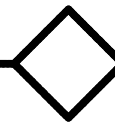
Copyright  
Energy Efficient Compacy

Sheet Title

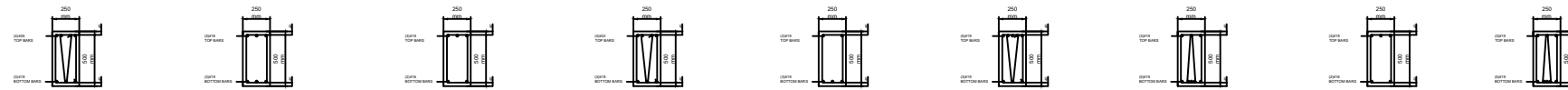
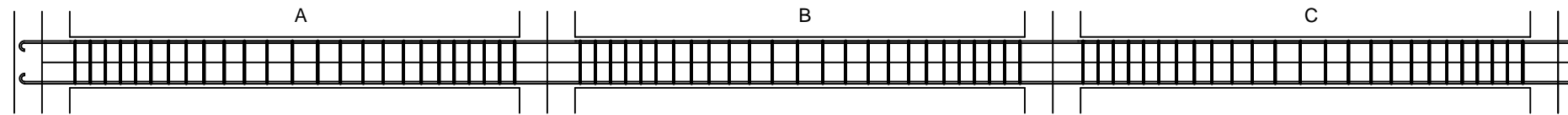
Reinforced beam design  
of levels 11 and 12

A - 101

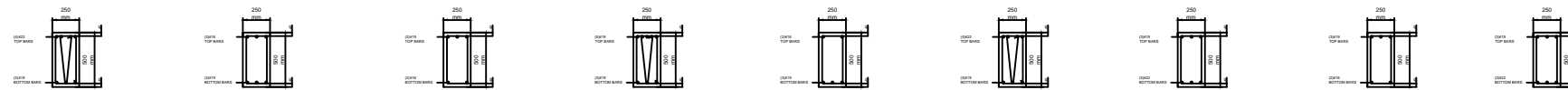
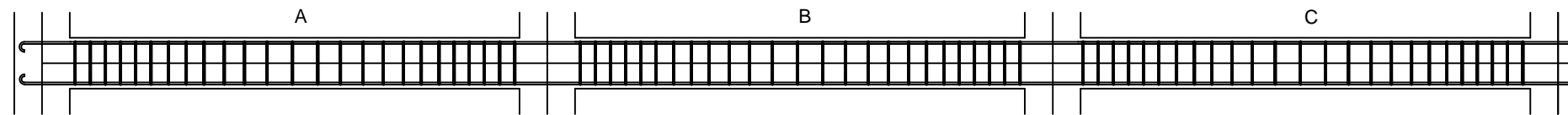
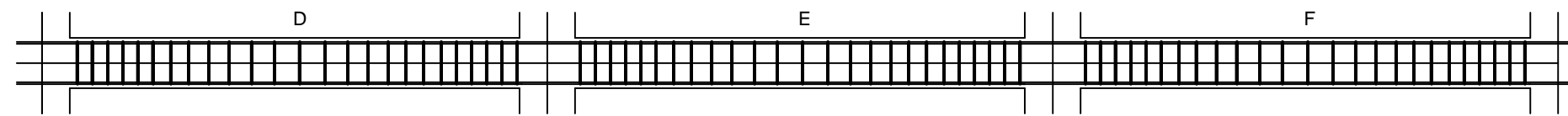
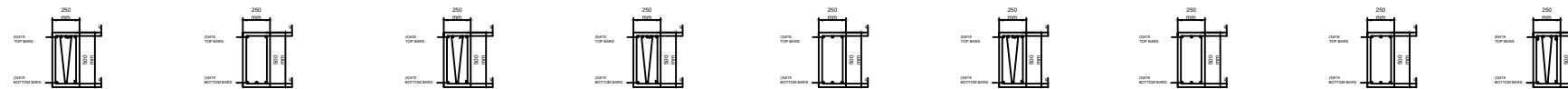
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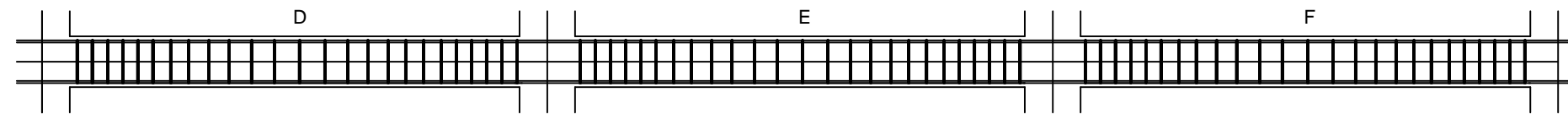
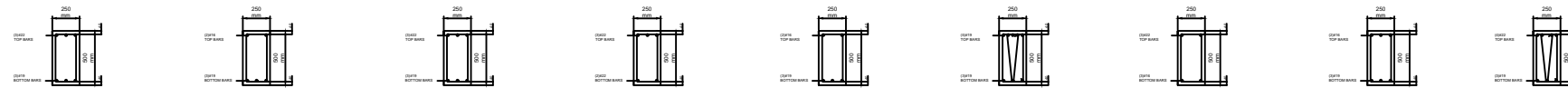
# Reinforced Beam Design



LEVEL 13



LEVEL 14



Energy Efficient Construction

Civil Engineering Department

Consultants

Shazim Ali Memon  
Adviser

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Marker

Jong Kim  
Marker

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Zauzat Zeken  
201202909

Project

Utopia Hotel Astana  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

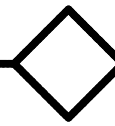
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Energy Efficient Compacy

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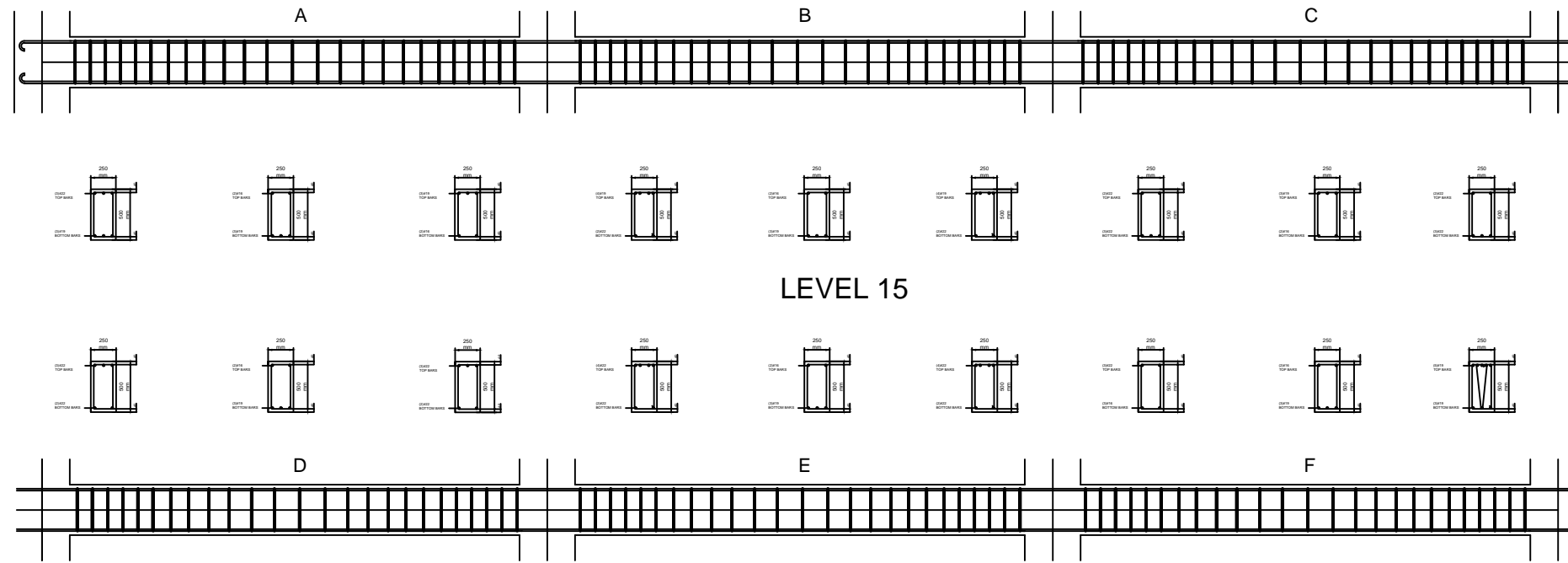
Reinforced beam design  
of levels 13 and 14

A - 101

Sheet 7



# Reinforced Beam Design



Energy Efficient Construction

Civil Engineering Department

Consultants

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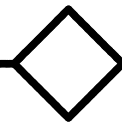
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Energy Efficient Compacy

Sheet Title

Reinforced beam design  
of levels 15

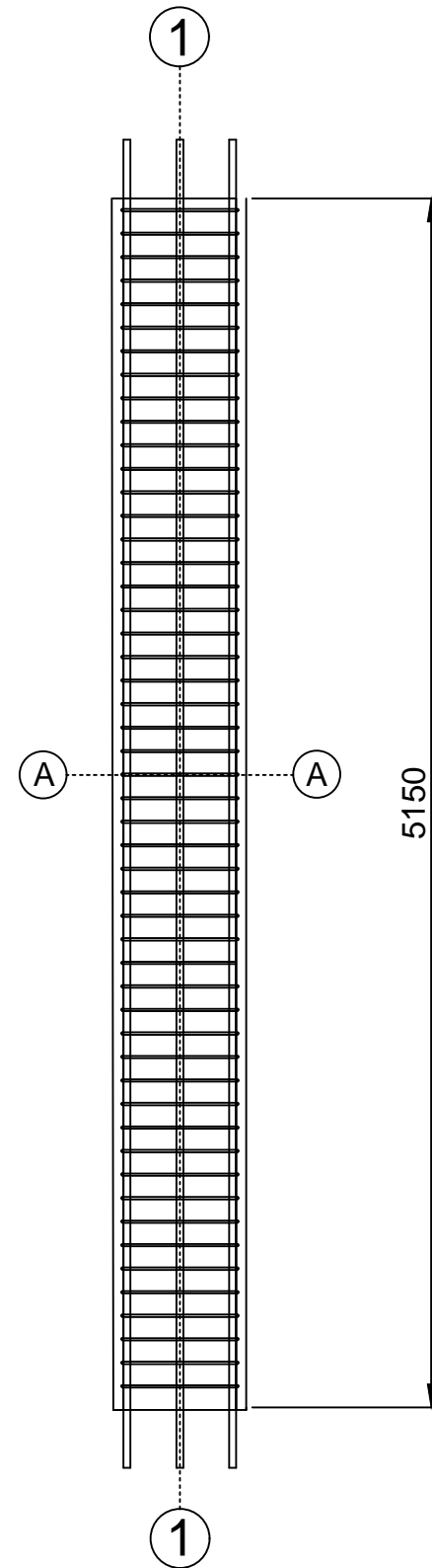
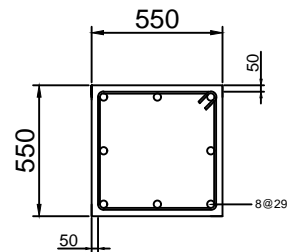
A - 101

Sheet 8



# Column Design C1-1

### Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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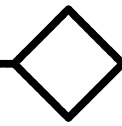
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Sheet Title

Column design 1

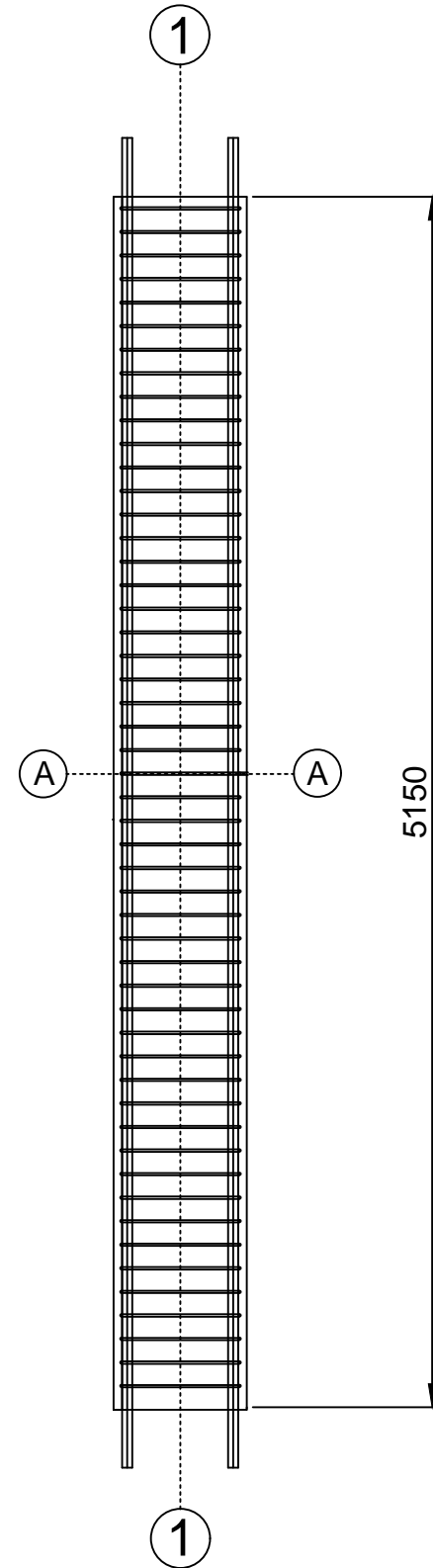
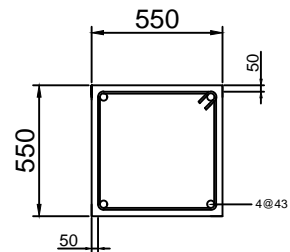
A - 101

Sheet 1



# Column Design C1-2, C1-3, C1-5

### Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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Marker

**Jong Kim**  
Marker

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201201930

Zauzat Zeken  
201202909

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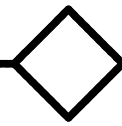
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Sheet Title

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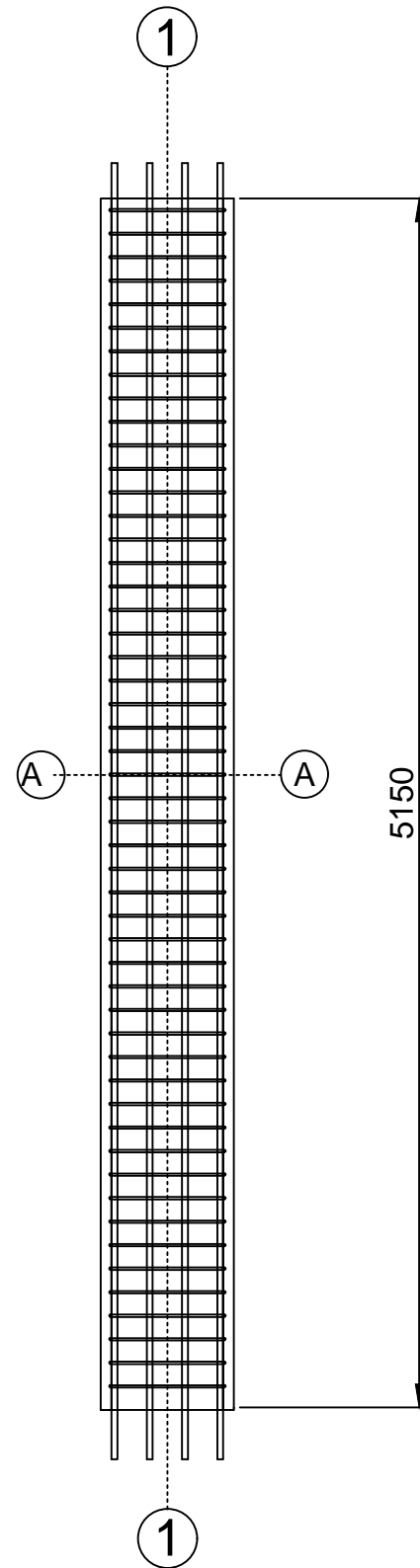
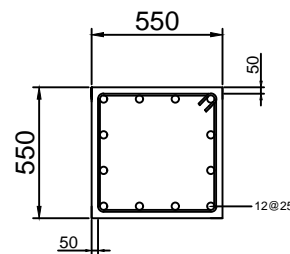
A - 101

Sheet 2



# Column Design C1-4, C1-6, C1-7

### Section A-A



Energy Efficient Construction

Civil Engineering Department

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201201930

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201202909

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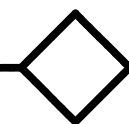
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Sheet Title

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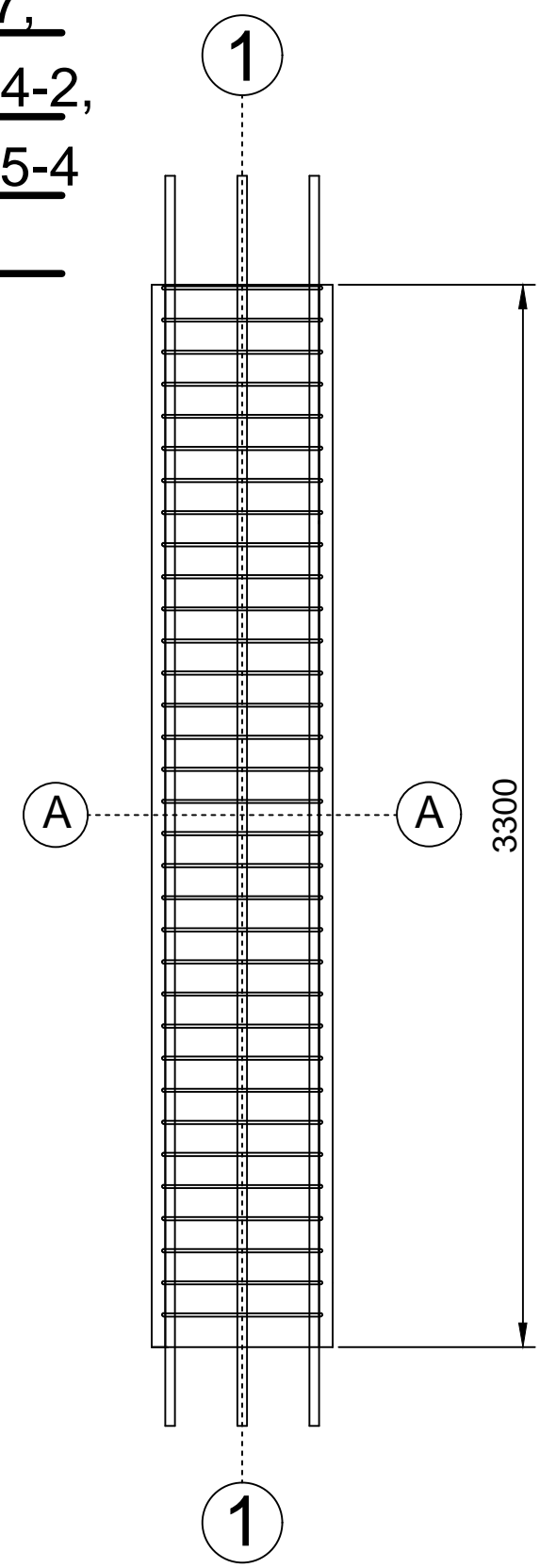
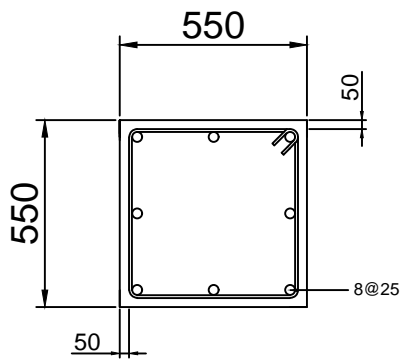
A - 101

Sheet 3



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C4-3, C4-4, C4-5, C4-6, C5-1, C5-2, C5-3, C5-4  
C5-5, C5-6

### Section A-A



Energy Efficient Construction  
Civil Engineering Department

Consultants

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Marker

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Marker

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CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

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Sheet Title

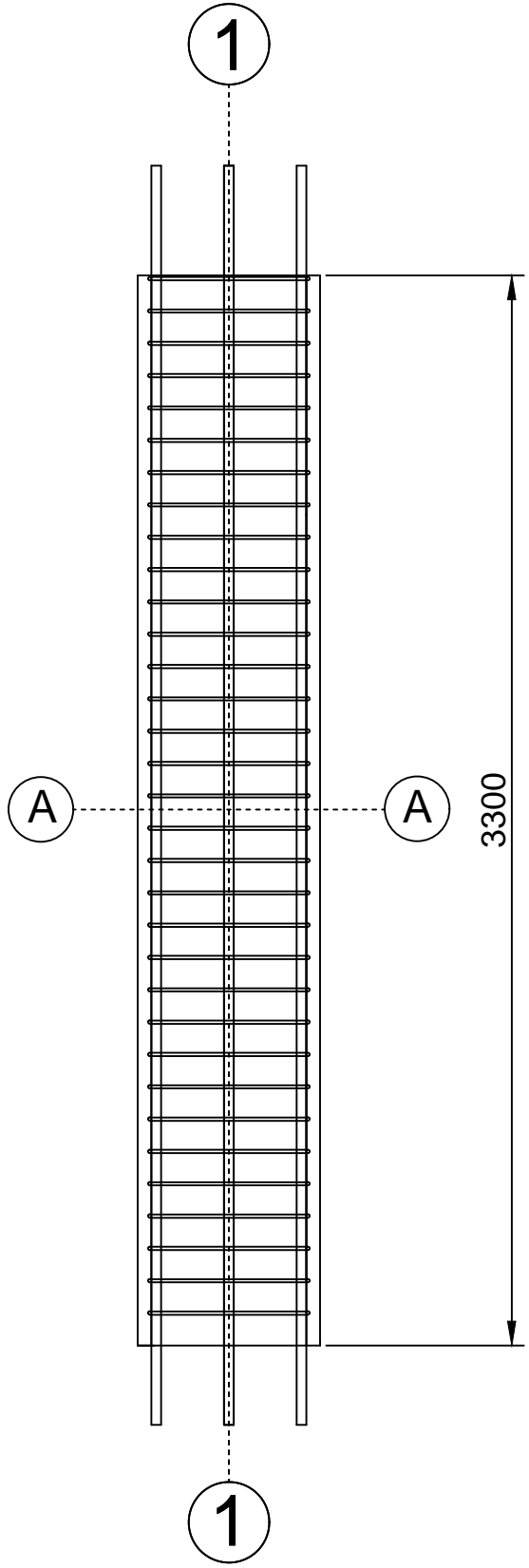
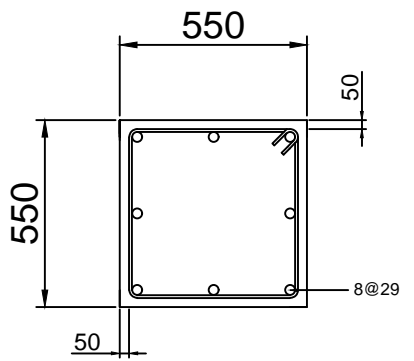
Column design 4

A - 101

Sheet 4

Column Design C2-4, C3-4,

Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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Marker

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Marker

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Project

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15-story hotel building

Astana, Kazakhstan

Project NO: 001

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Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

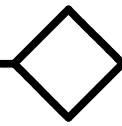
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Sheet Title

Column design 5

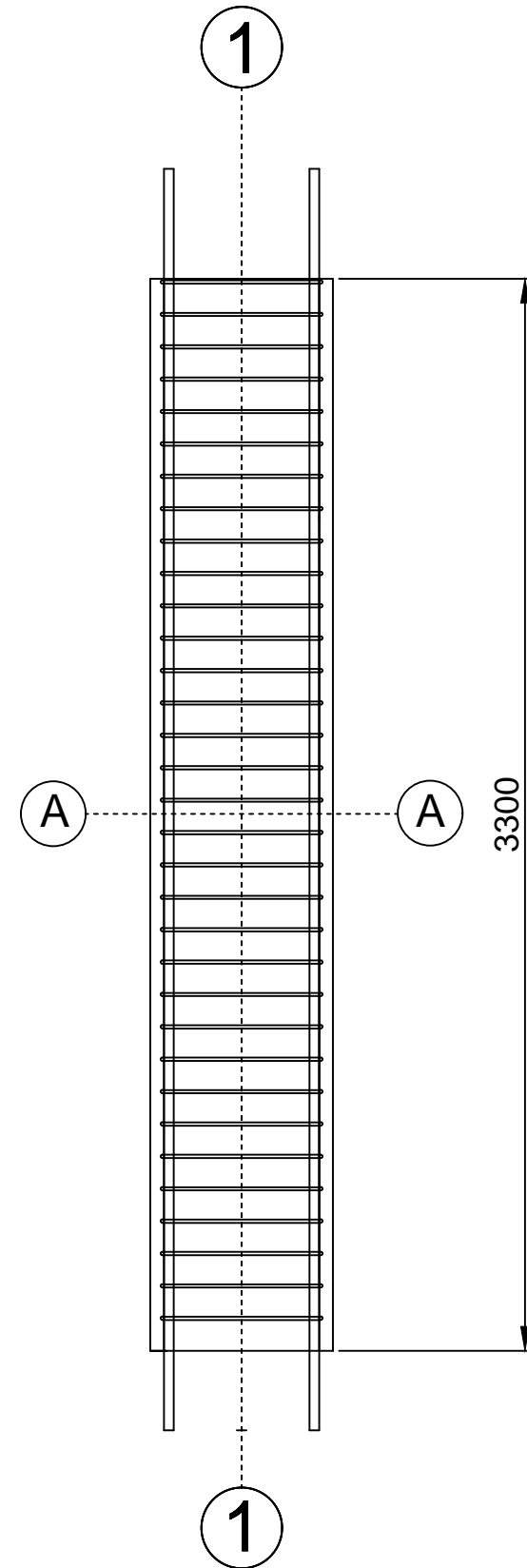
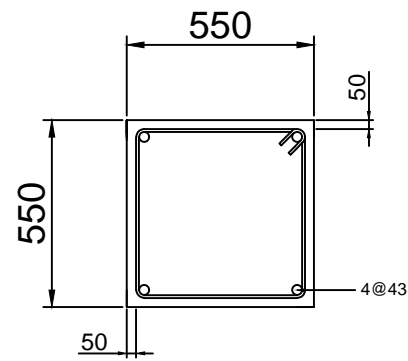
A - 101

Sheet 5



# Column Design C2-5,

## Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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201201546

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201201930

Zauzat Zeken  
201202909

Project

**Utopia Hotel Astana**  
15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

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Sheet Title

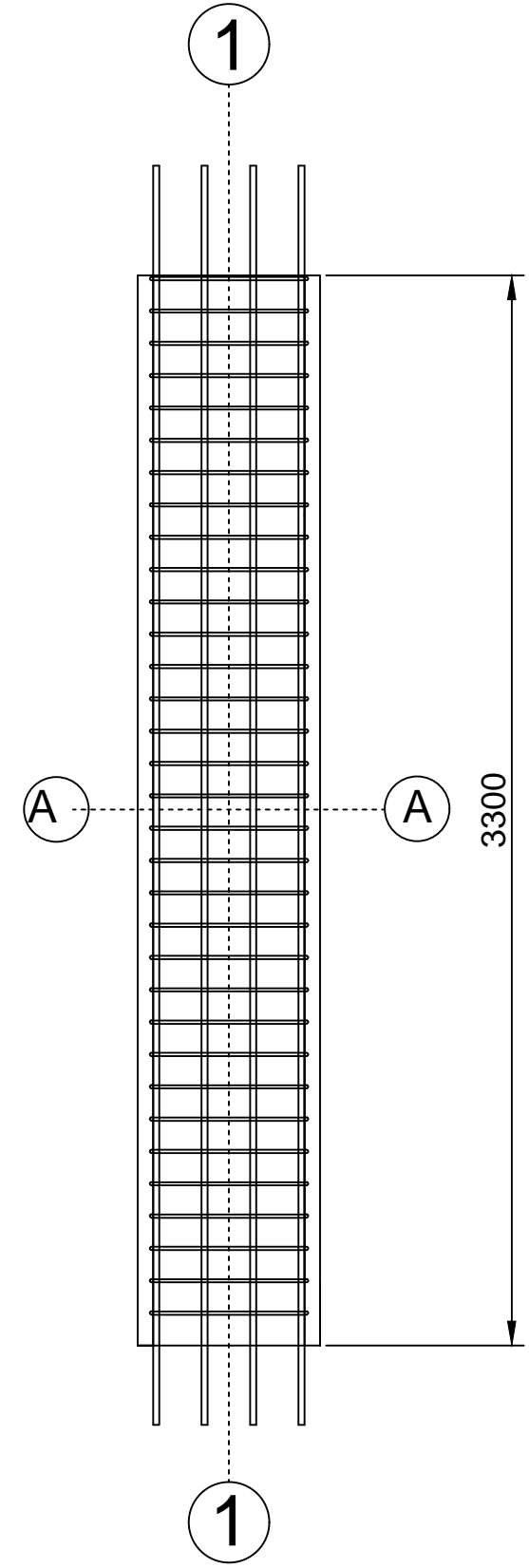
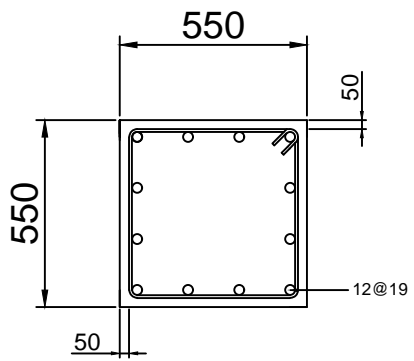
Column design 6

A - 101

Sheet 6

Column Design C4-7, C5-7,

Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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Zauzat Zeken  
201202909

Project

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15-story hotel building

Astana, Kazakhstan

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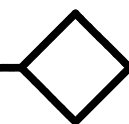
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Energy Efficient Compacy

Sheet Title

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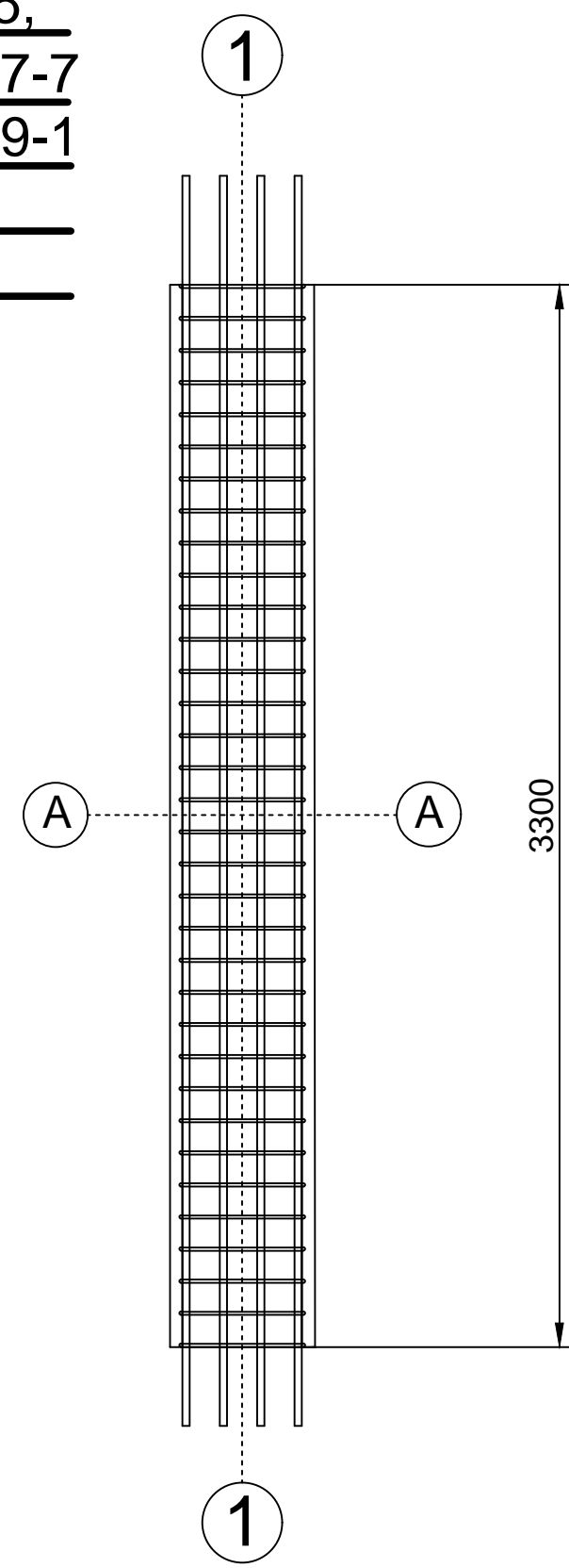
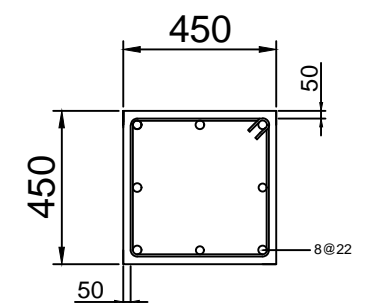
A - 101

Sheet 7



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C9-2, C9-3, C9-4, C9-5, C9-6, C9-7, C10-1,  
C10-2, C10-3, C10-5, C10-6, C10-7

### Section A-A



Energy Efficient Construction

Civil Engineering Department

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 Marker

Jong Kim  
 Marker

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 201201930

Zauzat Zeken  
 201202909

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 15-story hotel building

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Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

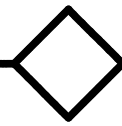
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 Energy Efficient Compacy

Sheet Title

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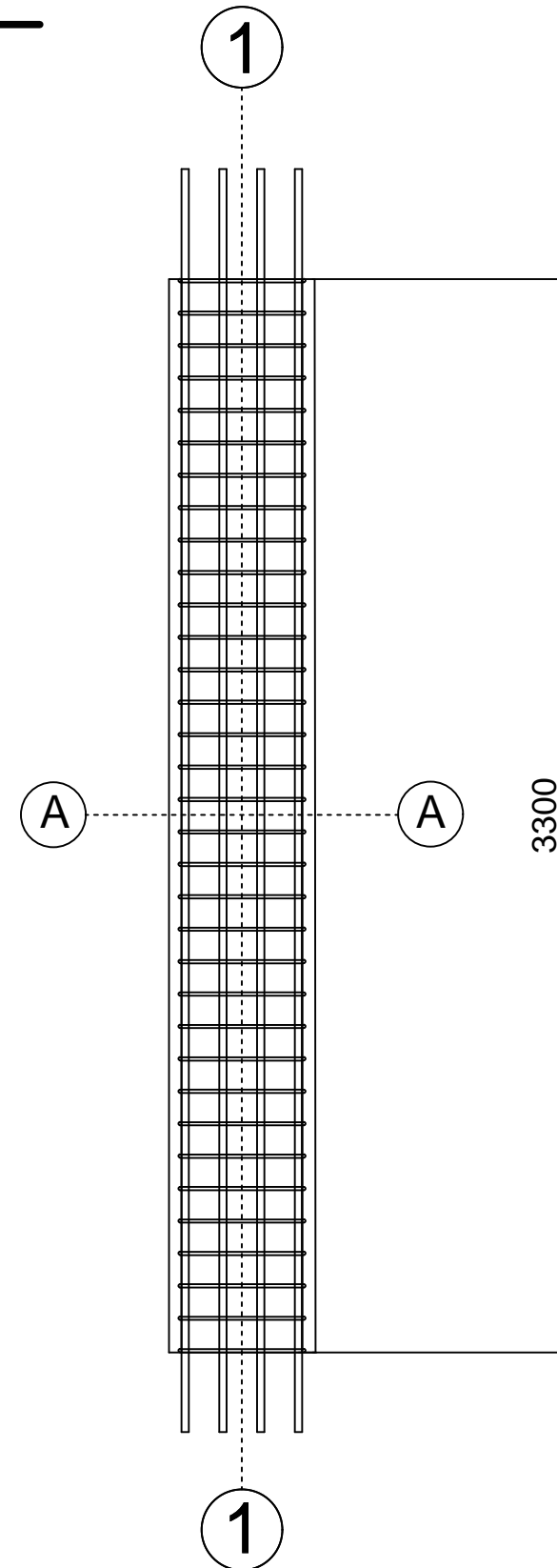
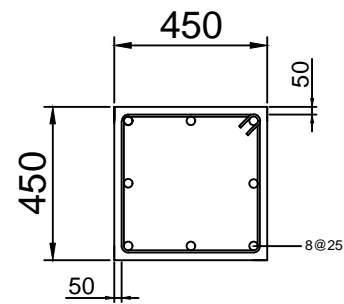
A - 101

Sheet 8



Column Design C10-4,

# Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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201201930

Zauzat Zeken  
201202909

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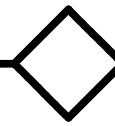
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Sheet Title

Column design 9

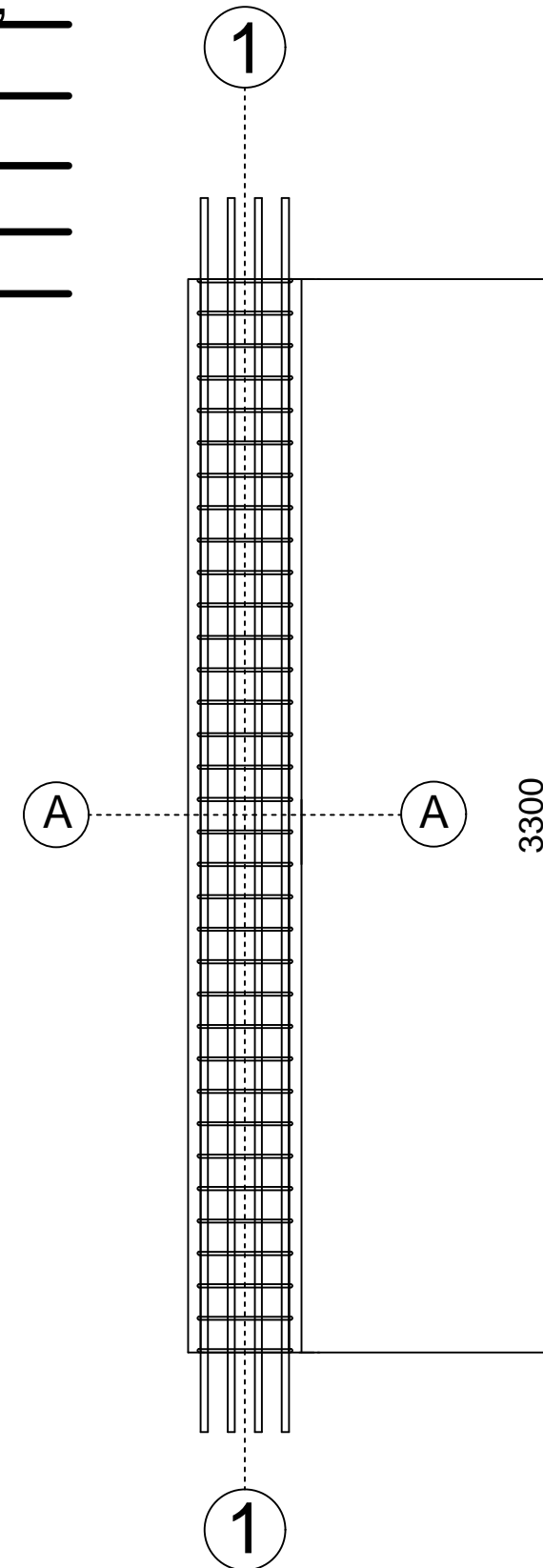
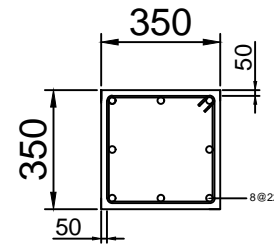
A - 101

Sheet 9



Column Design C11-1, C11-2, C11-3, C11-4,  
 C11-5, C11-6, C11-7, C12-1, C12-2, C12-3,  
 C12-4, C12-5, C12-6, C12-7, C13-1, C13-2,  
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 C14-2, C14-3, C14-4, C14-5, C14-6, C14-7,

## Section A-A



Energy Efficient Construction

Civil Engineering Department

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Jong Kim  
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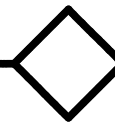
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Energy Efficient Compacy

Sheet Title

Column design 10

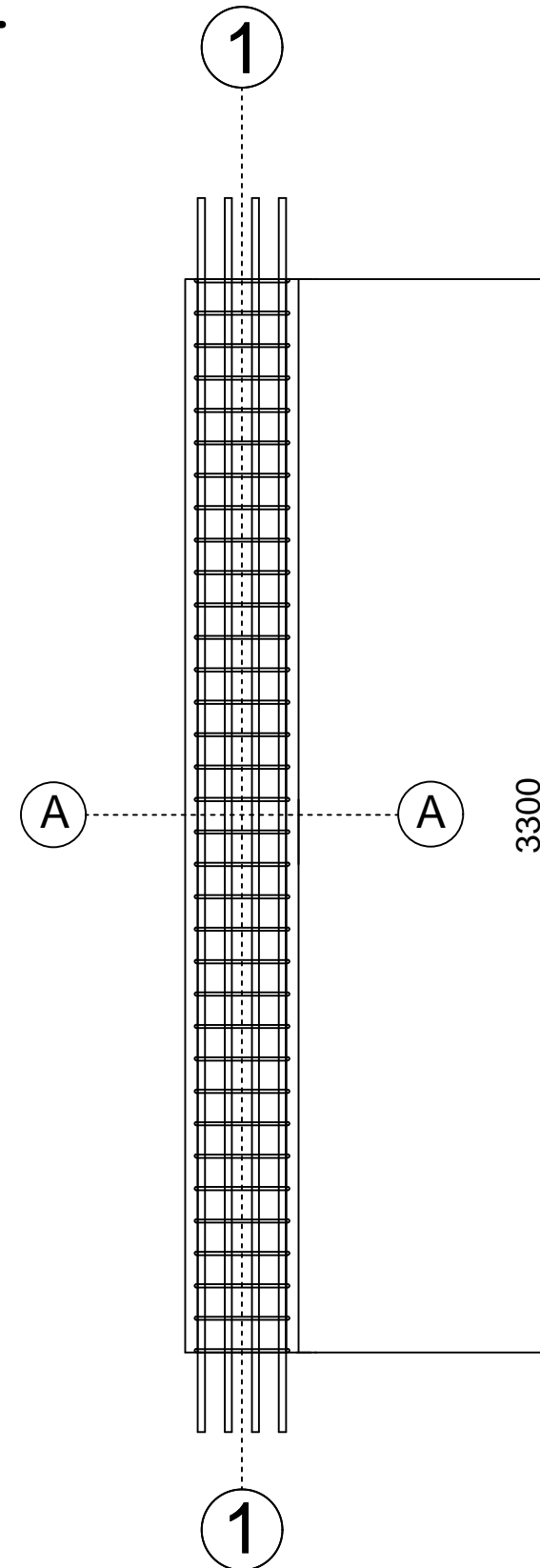
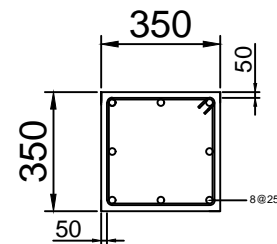
A - 101

Sheet 10



Column Design C15-1, C15-2, C15-3, C15-4  
C15-5, C15-6, C15-7

Section A-A



Energy Efficient Construction

Civil Engineering Department

Consultants

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Sheet Title

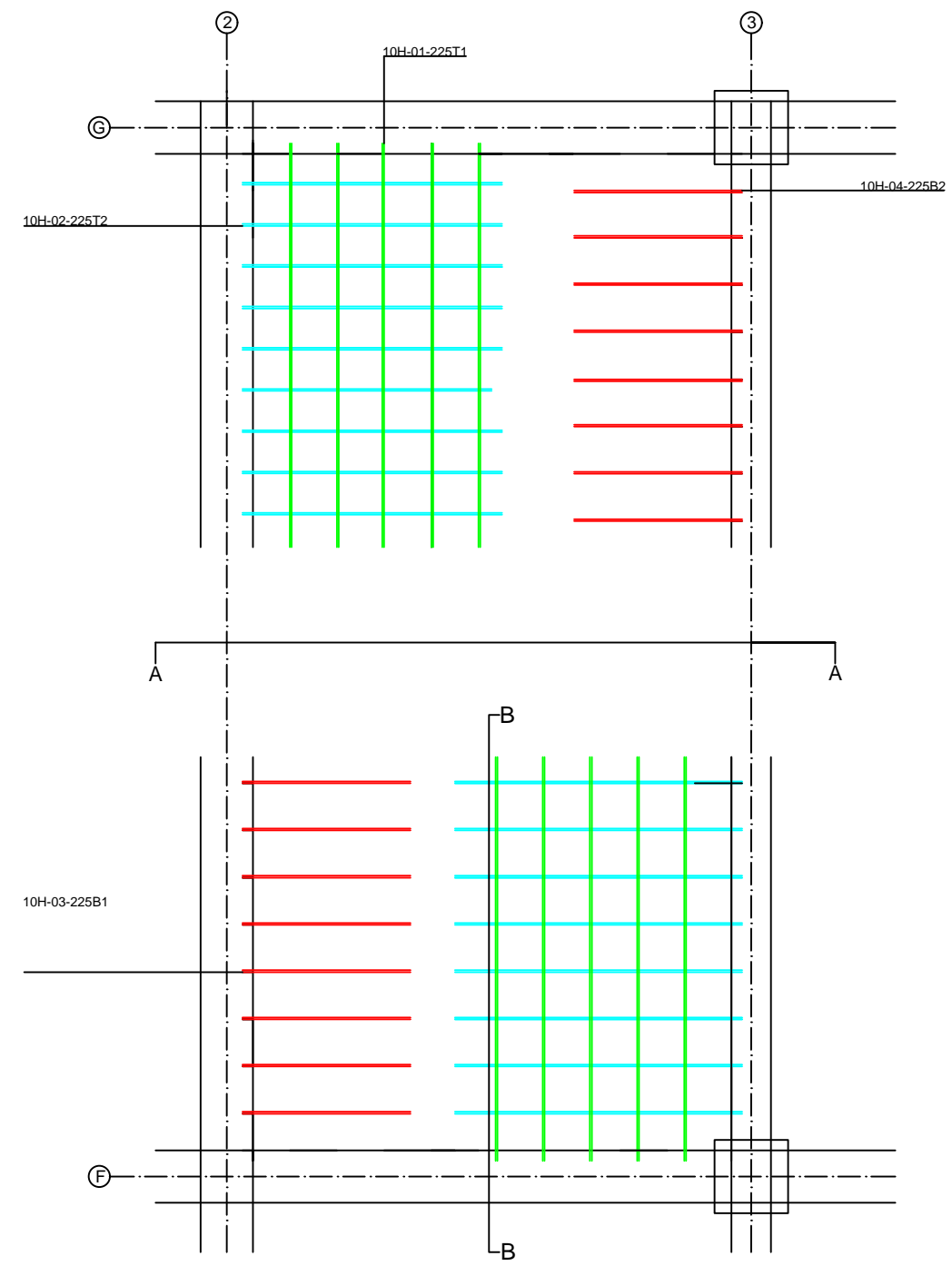
Column design 11

A - 101

Sheet 11

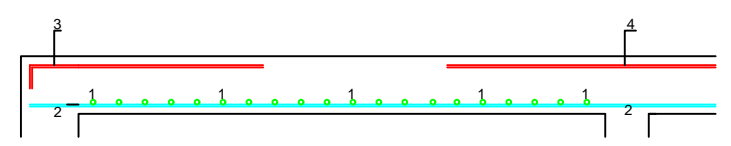
A1

# Slab Reinforcement

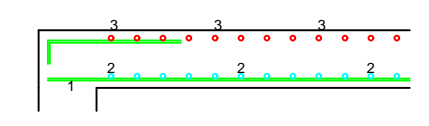


Plan of interior span of floor slab  
 Cover to upper layers B1 and T1 = 25 mm

Section A-A



Section B-B



Energy Efficient Construction

Civil Engineering Department

Consultants

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 Adviser

**Hau Leung**  
 Marker

**Jong Kim**  
 Marker

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201202524
- Nurassyl Battalgazy  
201201546
- Zarina Zharaspayeva  
201201930
- Zauzat Zeken  
201202909

Project

**Utopia Hotel Astana**  
 15-story hotel building

Astana, Kazakhstan

Project NO: 001

CAT dwg File: first floor.dwg

Drawn by: Nurassyl Battalgazy

Checked by: Amire Anuarbek

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 Energy Efficient Compacy

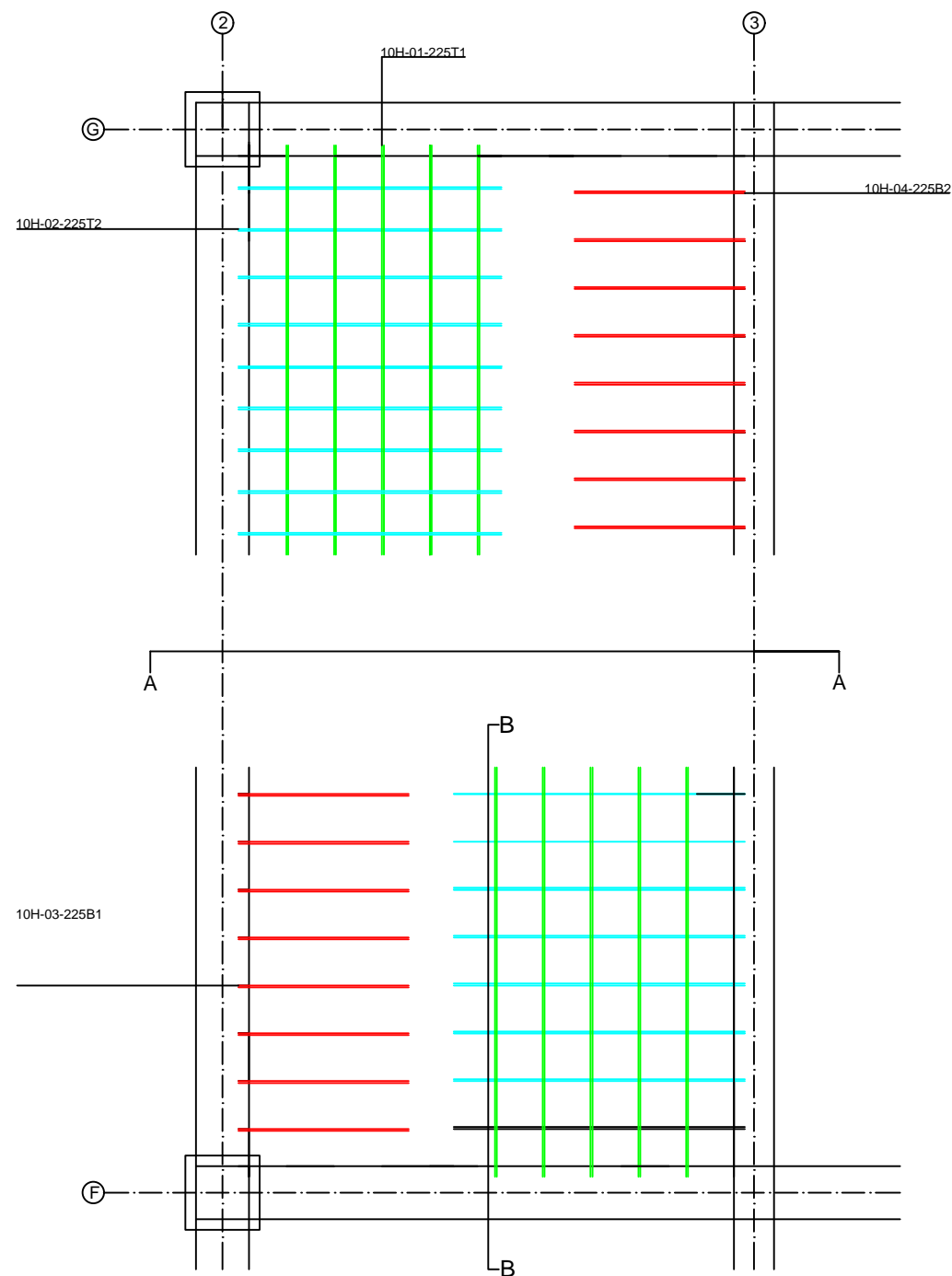
Sheet Title

Slab Reinforcement  
 Interior span floor1

A - 101

A1

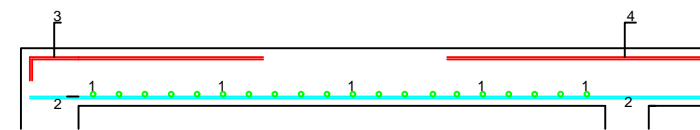
# Slab Reinforcement



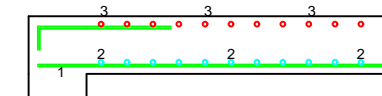
Plan of end span of floor slab

Cover to upper layers B1 and T1 = 25 mm

Section A-A



Section B-B



Energy Efficient Construction

Civil Engineering Department

Consultants

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Adviser

**Hau Leung**  
Marker

**Jong Kim**  
Marker

Group members

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Sheet Title

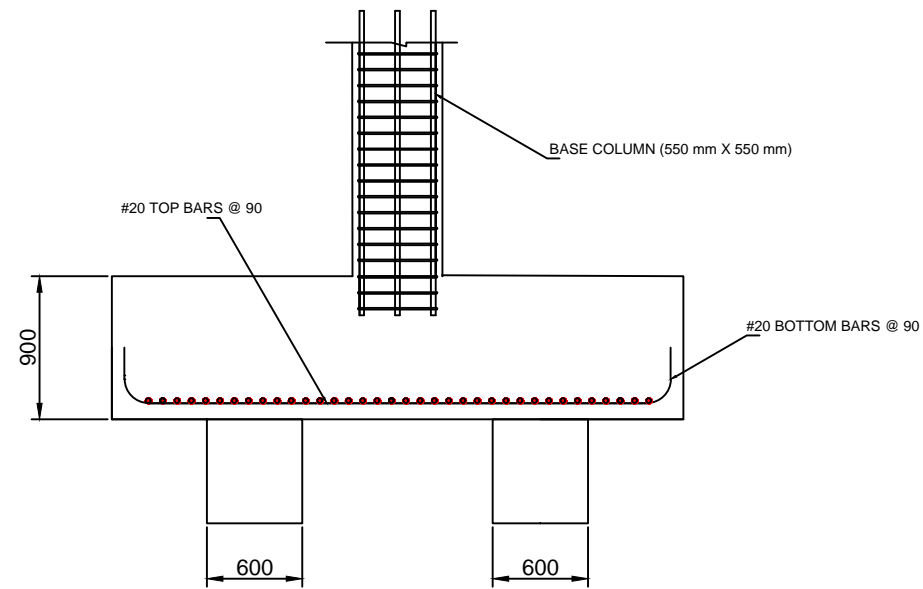
Slab Reinforcement  
End Span Floor 1

A - 101

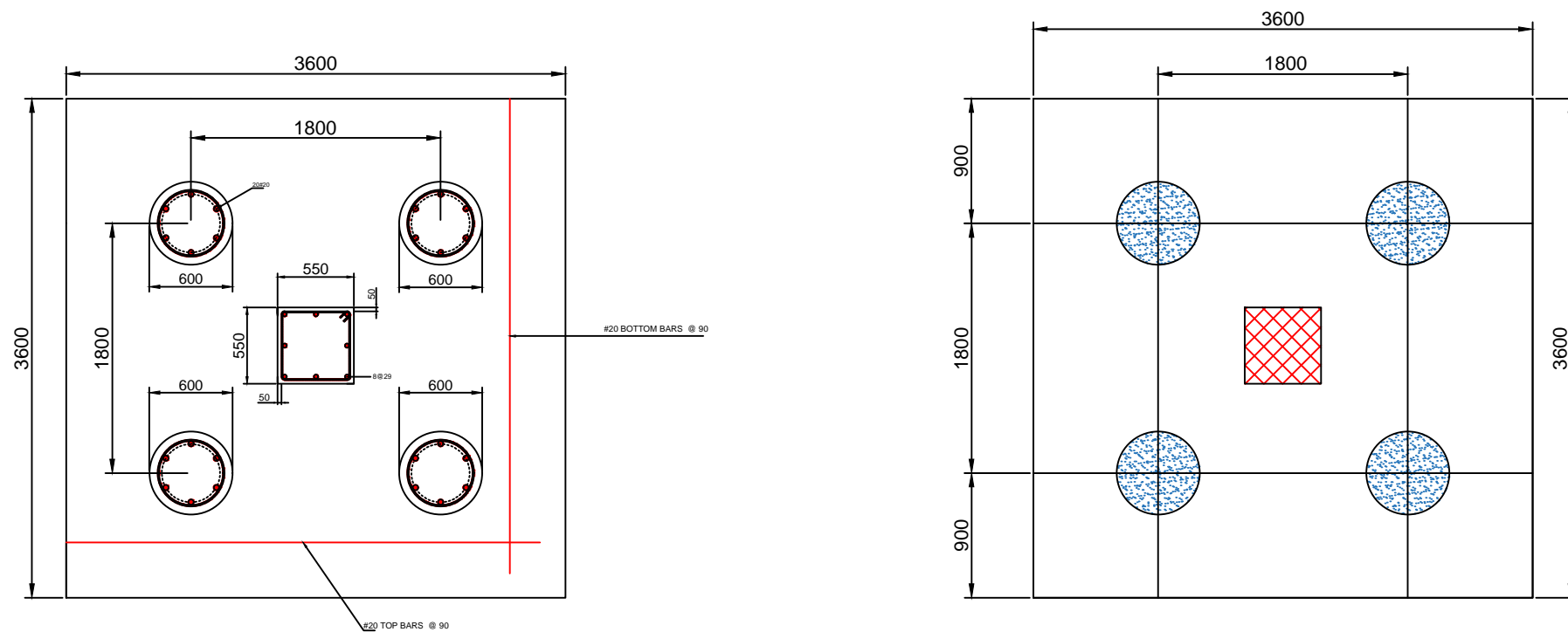
Sheet 1 of 2

# Pile Foundation

Side View



Top View



Energy Efficient Construction

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Pile Foundation

A - 101

Sheet 1