

Project Name:

El-Alamein's Downtown Towers (The Four D-Towers)

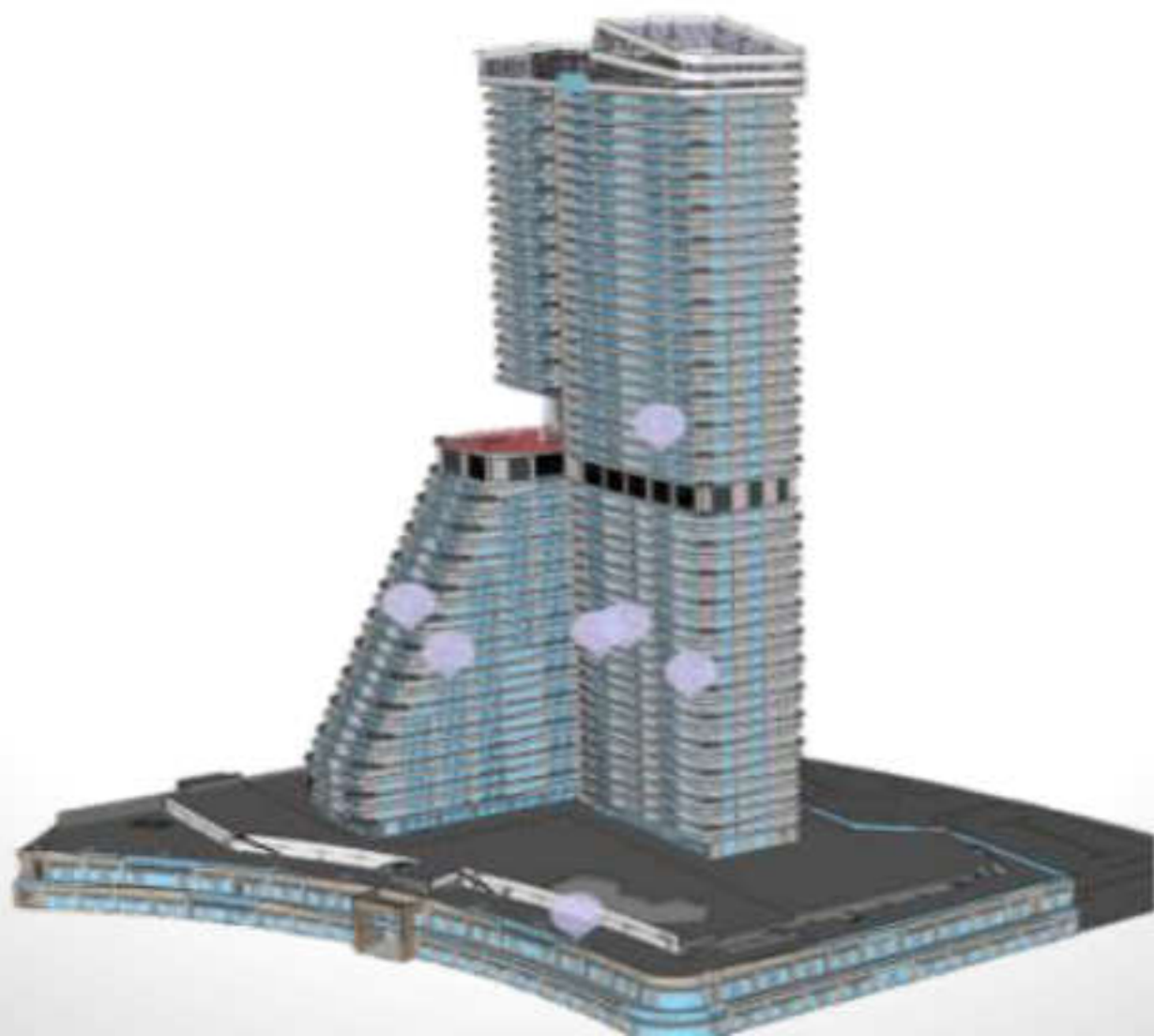
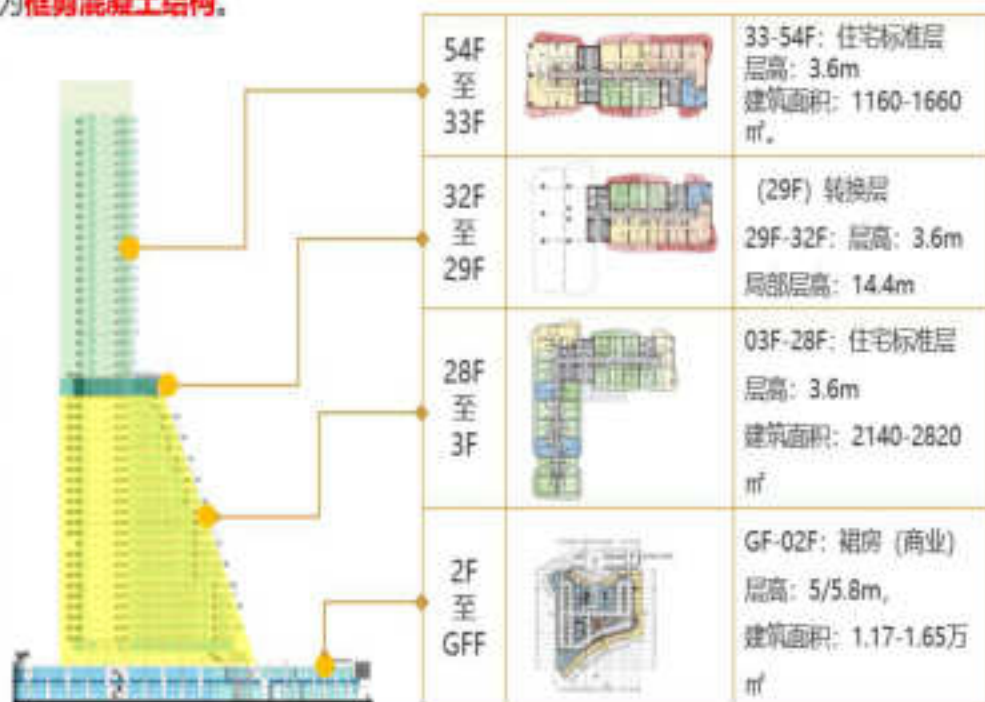
- Initially Total Cost = 31 billion L.E
- Built Up Area = 632,000 m²
- Podium area 30,000 m² with 3 Floors .
- Tower area 3800 m² with 56 floors (200 m height).
- Consultant : Dar-Elhandasa .



本次作品围绕D标段为例展开(包含4栋对称布置的超高层)，单栋建筑面积15.9万 m^2 ，包含3层裙楼及54层主楼，建筑高度210m，结构类型为框剪混凝土结构。



阿拉曼新城超高层综合体项目D楼效果图



1 BIM模型协同构建

统一标准

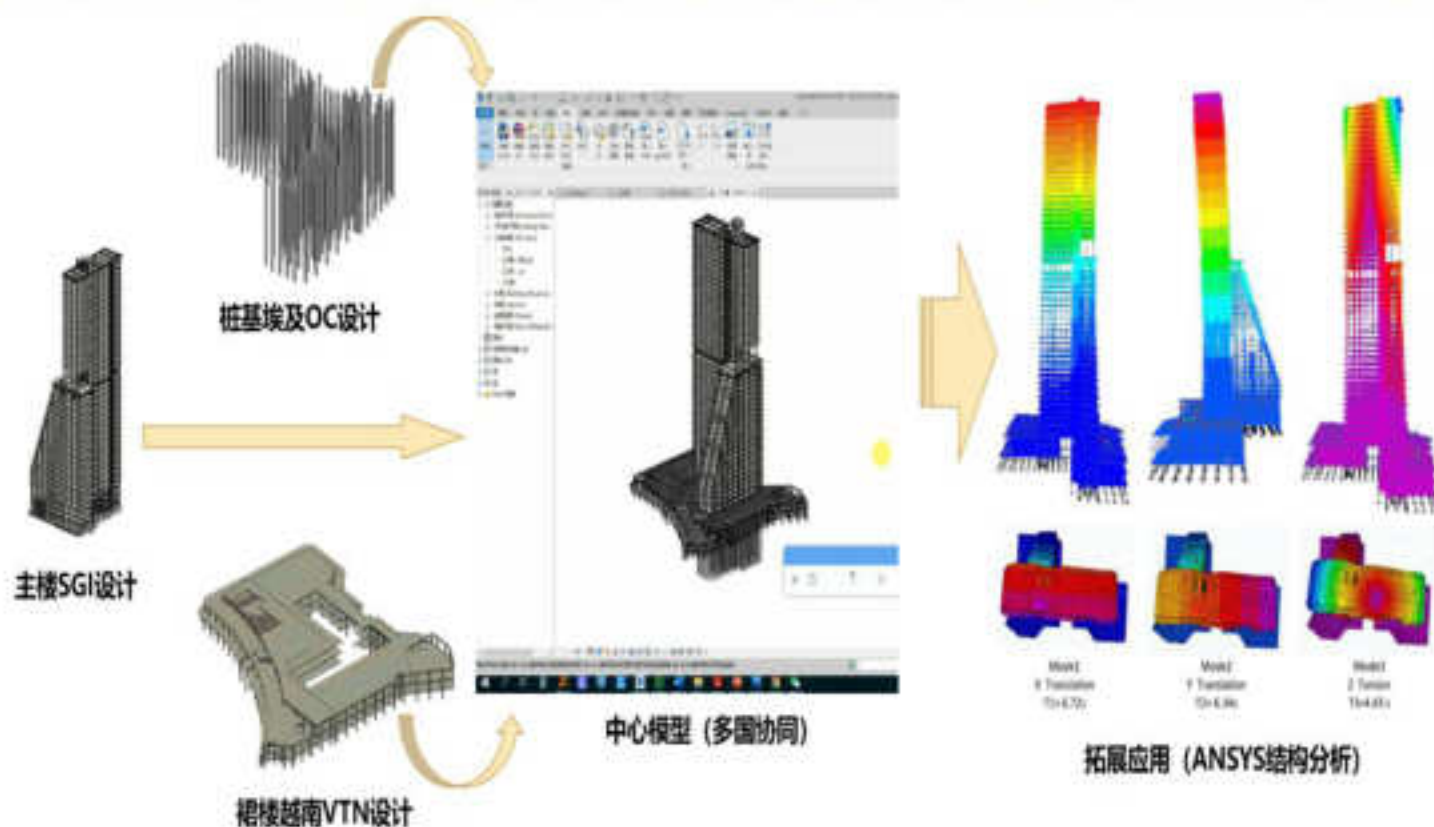
协同建模

碰撞检查

模型传递

审核交付

结构以Revit为主建模软件，构建中心模型，协同分包完成结构模型，并开展结构受力分析等拓展应用。



BIM模型拓展应用

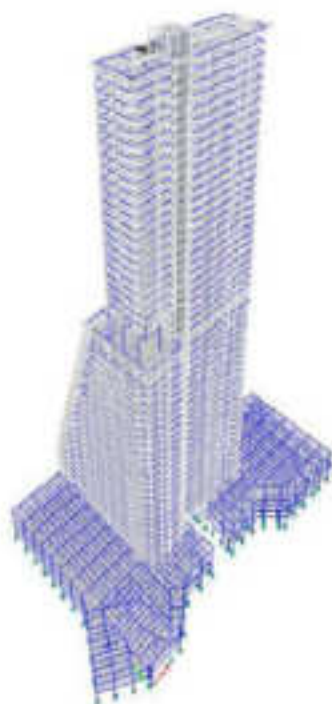
景观设计

仿真模拟

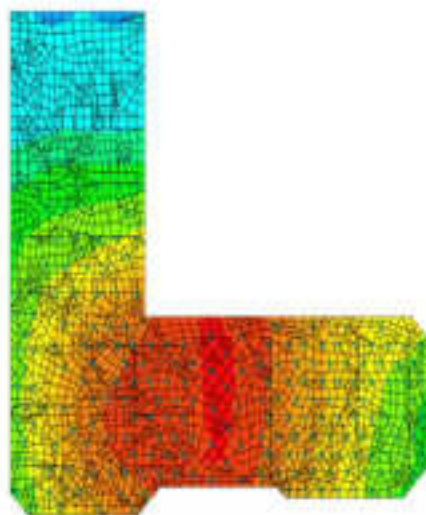
BIM+3D打印

BIM+MR

BIM+VR



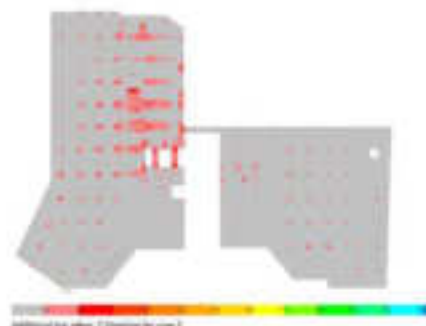
有限元模型



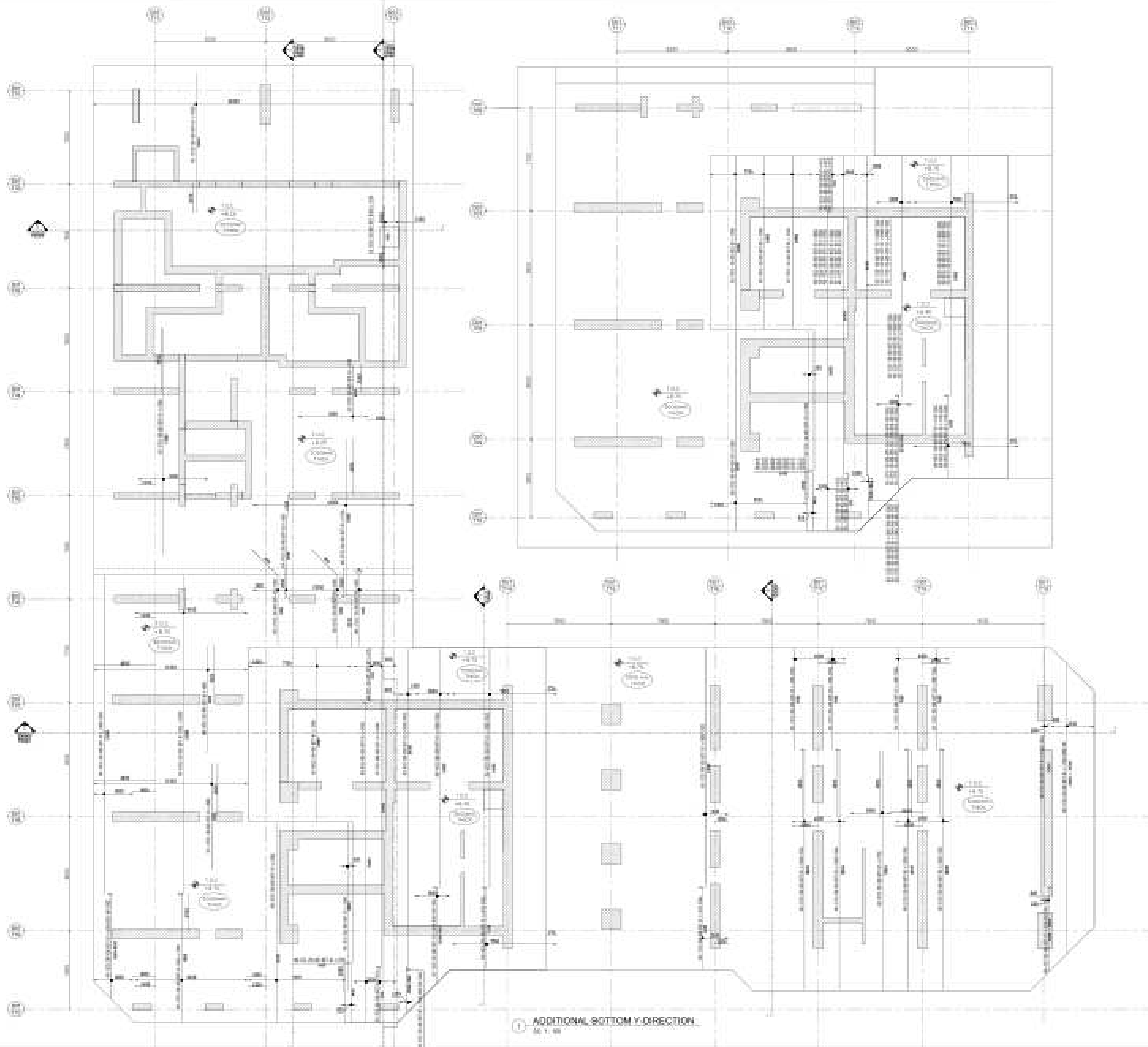
筏板沉降量模拟分析



裙楼墙柱结构分析



应力集中点识别



① ADDITIONAL BOTTOM Y-DIRECTION
BY T. 88

REF. PLAN

PROJECT NAME:
Almain Downtown Towers
تowers in downtown Almain

OWNER:
Ministry of Housing, Utilities & Urban Communities

NEW URBAN COMMUNITIES AUTHORITY

DESIGNED BY:
dar Dar El-Handash (Egypt)
Sole & Partners

CONTRACT NO.:
中国城发展股份有限公司
China City Development Co., Ltd.

REFERENCE TABLE

NO.	DESCRIPTION	DATE
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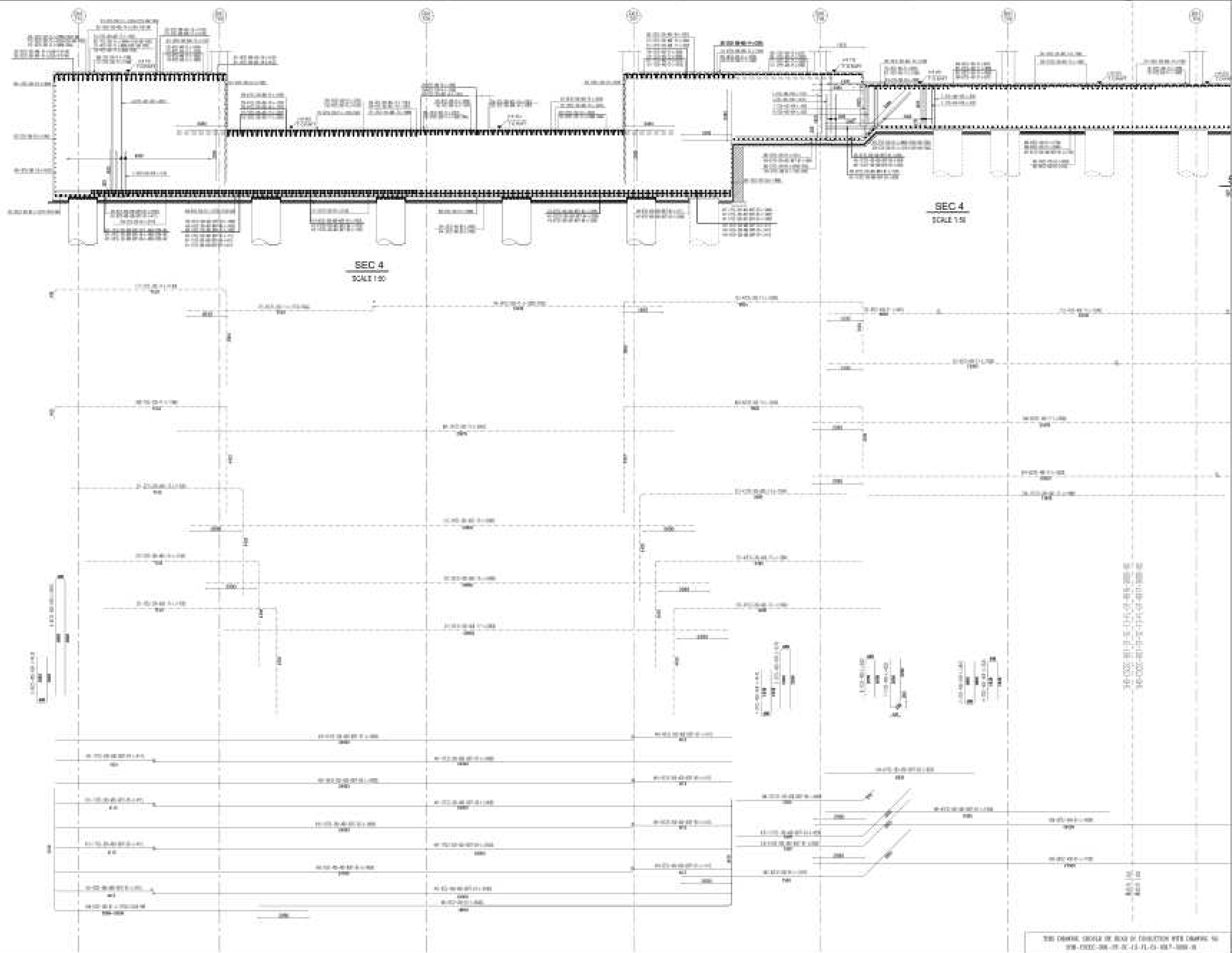
REVISION TABLE

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DRAWING DATA

BY: ARCHITECT: T.M.S.
 DATE: NOVEMBER 2013
 AUTOMATIC: WITHIN 1-SECTION
 PG. 3 OF 3

ALC-0002-001-01-01-11-PL-0-000-0000-00



PROJECT NAME:
Alamein Downtown Towers
مركز المدينة الجديدة بالعلمين

CLIENT:
Ministry of Housing, Utilities & Urban Communities
New Urban Communities Authority

DESIGNER:
dar Dar El-Hendash (Egypt)
Skid & Partners

CONTRACTOR:
中國建築集團有限公司
China Overseas Construction Group Co., Ltd.

REFERENCE TABLE:

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REVISION TABLE:

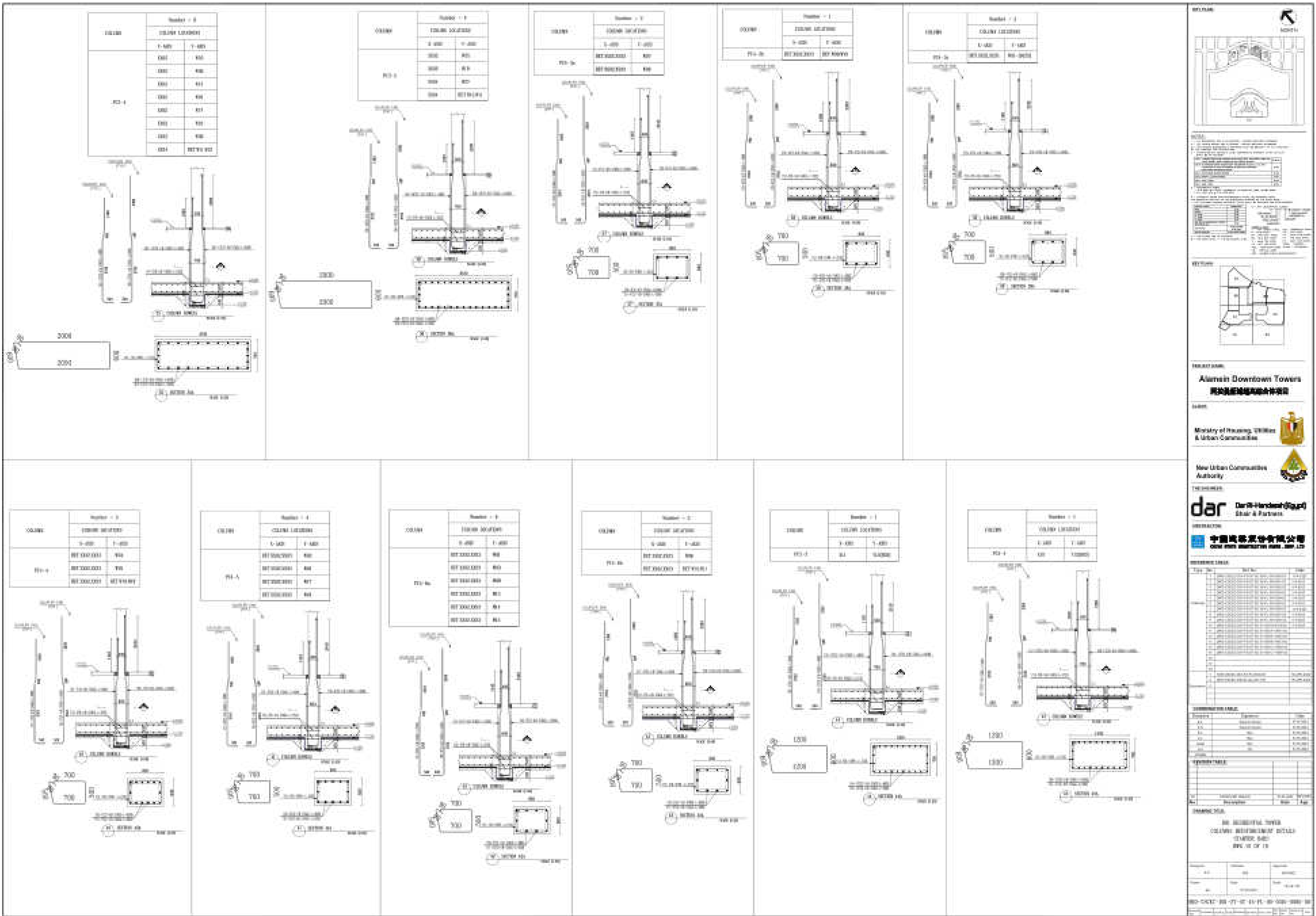
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CHANGING DATA:

03.03.2014. 10:00
DWT BY VICTOR DOTA
000 & 01.0

THE DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NO.
000-0000-000-01-02-13-11-01-000-000-00

000-0000-000-01-02-13-11-01-000-000-00



PROJECT NAME: Almain Downtown Towers
Architectural Design & Construction

CLIENT: Ministry of Housing, Utilities & Urban Communities

DESIGNER: Dar Al-Handasah (Iraq) Ltd. & Partners

DATE: 2023-10-10

REVISIONS:

NO.	DESCRIPTION	DATE
1	Initial Design	2023-10-10
2	Revised Design	2023-10-15
3	Final Design	2023-10-20

APPROVED BY: [Signature]

PROJECT LOCATION: Almain, Baghdad, Iraq

PROJECT NO.: DAR-ALH-2023-010

SCALE: 1:100

DATE: 2023-10-10

BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

PROJECT NO.: DAR-ALH-2023-010

SCALE: 1:100

DATE: 2023-10-10

BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

Figure 10-1: Reinforcement layout of the roof slab

Drawing Name		Drawing Number	
		Drawing Number	Drawing Date
10-1	Reinforcement Layout	10-1	10-1
		10-1	10-1
		10-1	10-1

Reinforcement Specifications:

- Top reinforcement: $\Phi 12 @ 150$
- Bottom reinforcement: $\Phi 12 @ 150$
- Section A-A: $\Phi 12 @ 150$
- Section B-B: $\Phi 12 @ 150$
- Section C-C: $\Phi 12 @ 150$
- Section D-D: $\Phi 12 @ 150$

Reinforcement Layout Diagram:

The diagram shows the overall layout of the roof slab reinforcement. It includes a grid of reinforcement bars with dimensions and labels for different sections (A-A, B-B, C-C, D-D). The layout is divided into four quadrants by a central cross-section.

Node Reinforcement Details:

- Node (a):** Reinforcement layout at the corner of the slab. It shows the intersection of top and bottom reinforcement bars. The top reinforcement is $\Phi 12 @ 150$ and the bottom reinforcement is $\Phi 12 @ 150$. The section is labeled A-A.
- Node (b):** Reinforcement layout at the edge of the slab. It shows the intersection of top and bottom reinforcement bars. The top reinforcement is $\Phi 12 @ 150$ and the bottom reinforcement is $\Phi 12 @ 150$. The section is labeled B-B.
- Node (c):** Reinforcement layout at the corner of the slab. It shows the intersection of top and bottom reinforcement bars. The top reinforcement is $\Phi 12 @ 150$ and the bottom reinforcement is $\Phi 12 @ 150$. The section is labeled C-C.
- Node (d):** Reinforcement layout at the edge of the slab. It shows the intersection of top and bottom reinforcement bars. The top reinforcement is $\Phi 12 @ 150$ and the bottom reinforcement is $\Phi 12 @ 150$. The section is labeled D-D.

03.194	Section 1-1	
	CONCRETE JOINT DETAIL	
	1.000	1.000
100.0	100.0	100.0
Area	1000.000	100.0

03.194

Section 1-1

CONCRETE JOINT DETAIL

1.000

1.000

100.0

100.0

100.0

Area

1000.000

100.0

03.194

Section 1-1

CONCRETE JOINT DETAIL

1.000

1.000

100.0

100.0

100.0

Area

1000.000

100.0

[illegible]

图例	图例 1	
	图例 1	图例 2
图例 1	图例 1	图例 2
	图例 1	图例 2

图例 1

图例 2

图例 3

图例 4

图例 5

图例 6

图例 7

图例 8

图例 9

图例 10

图例 11

图例 12

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图例 329

图例 330

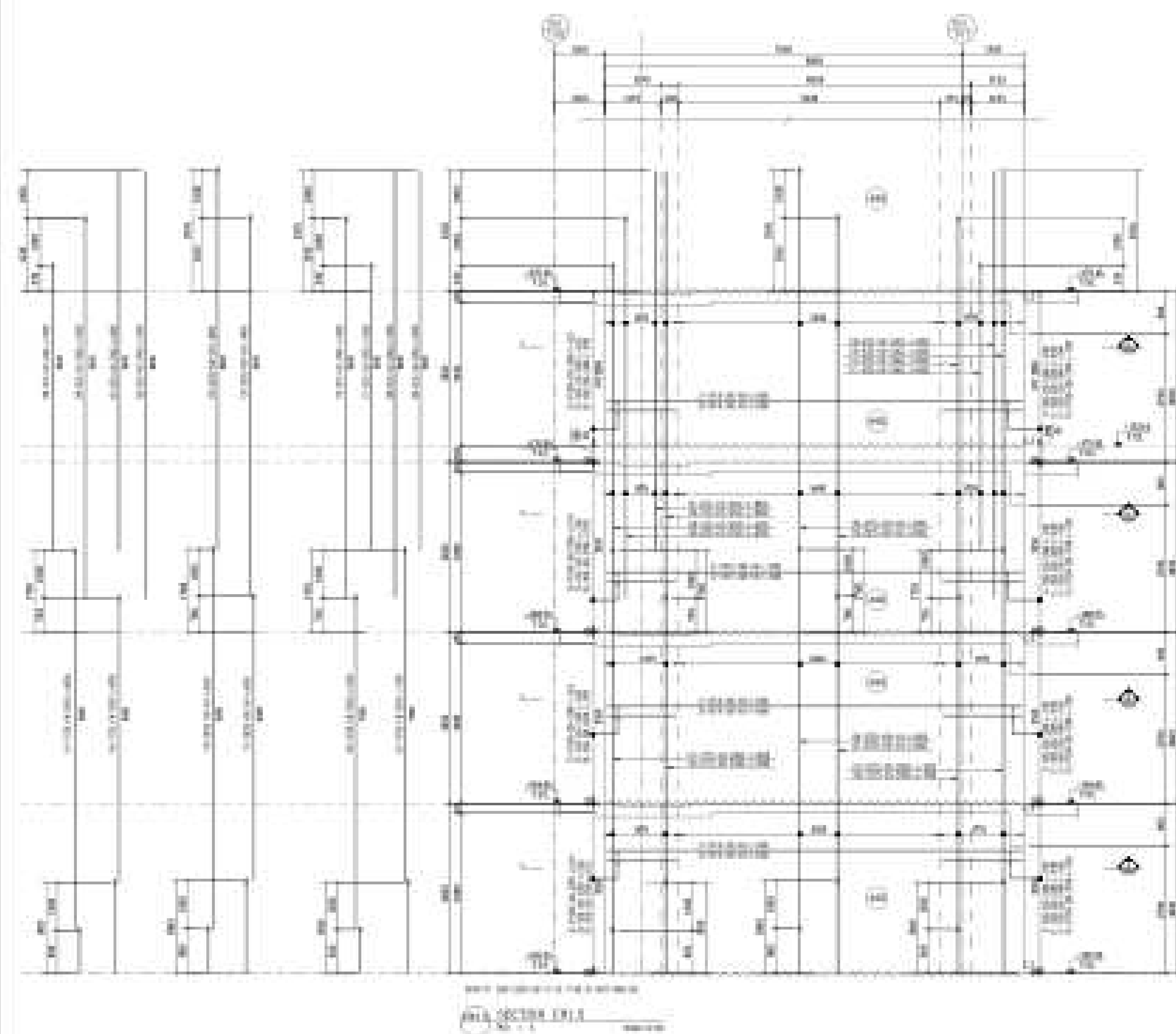
图例 331

图例 332

图例 333

图





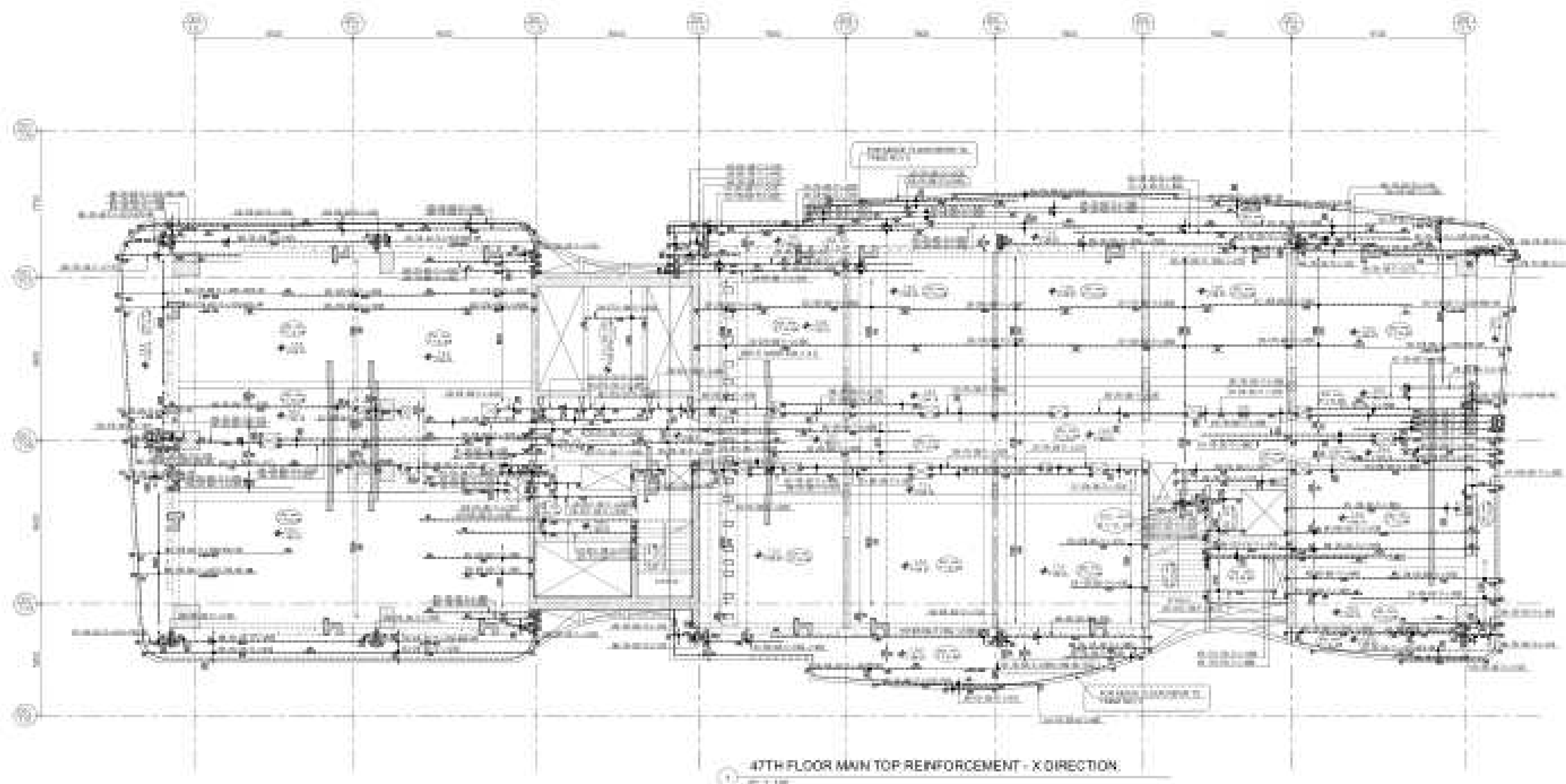
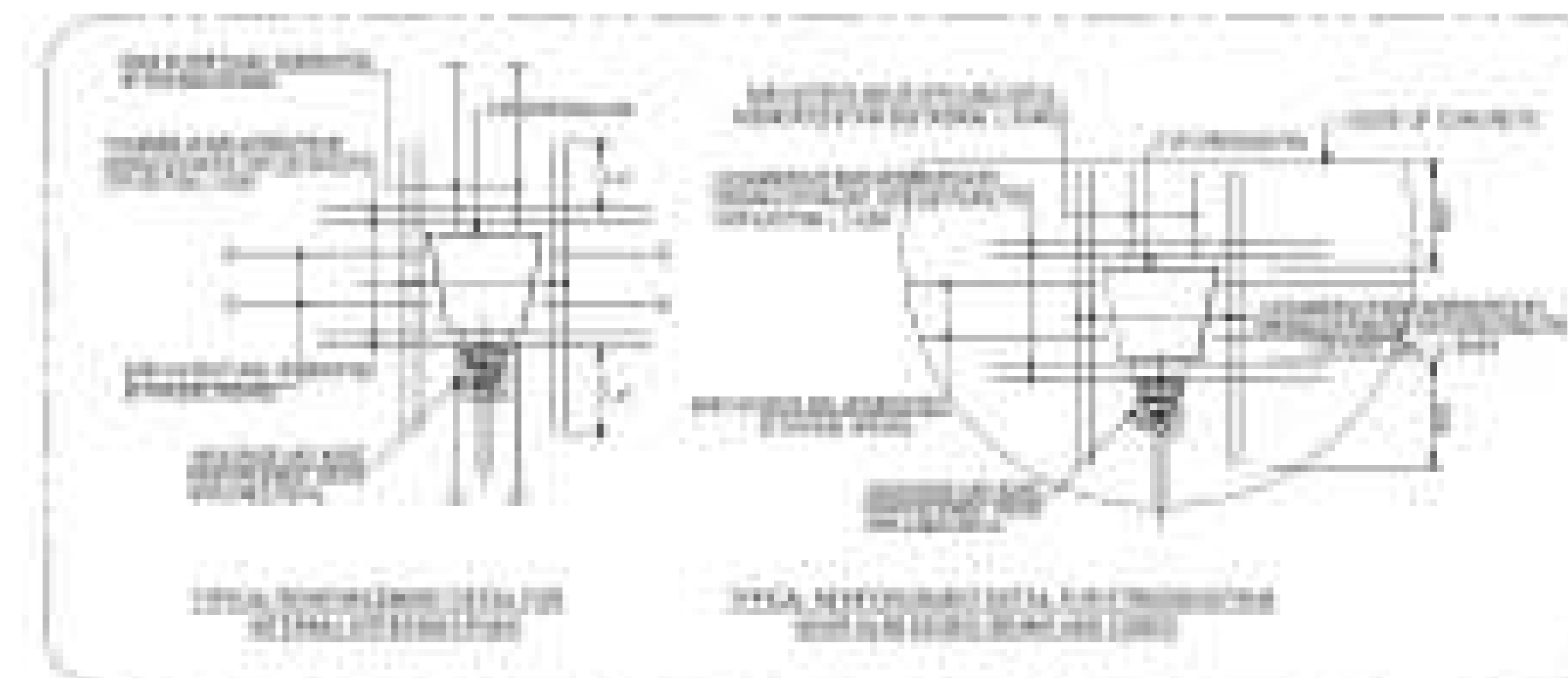
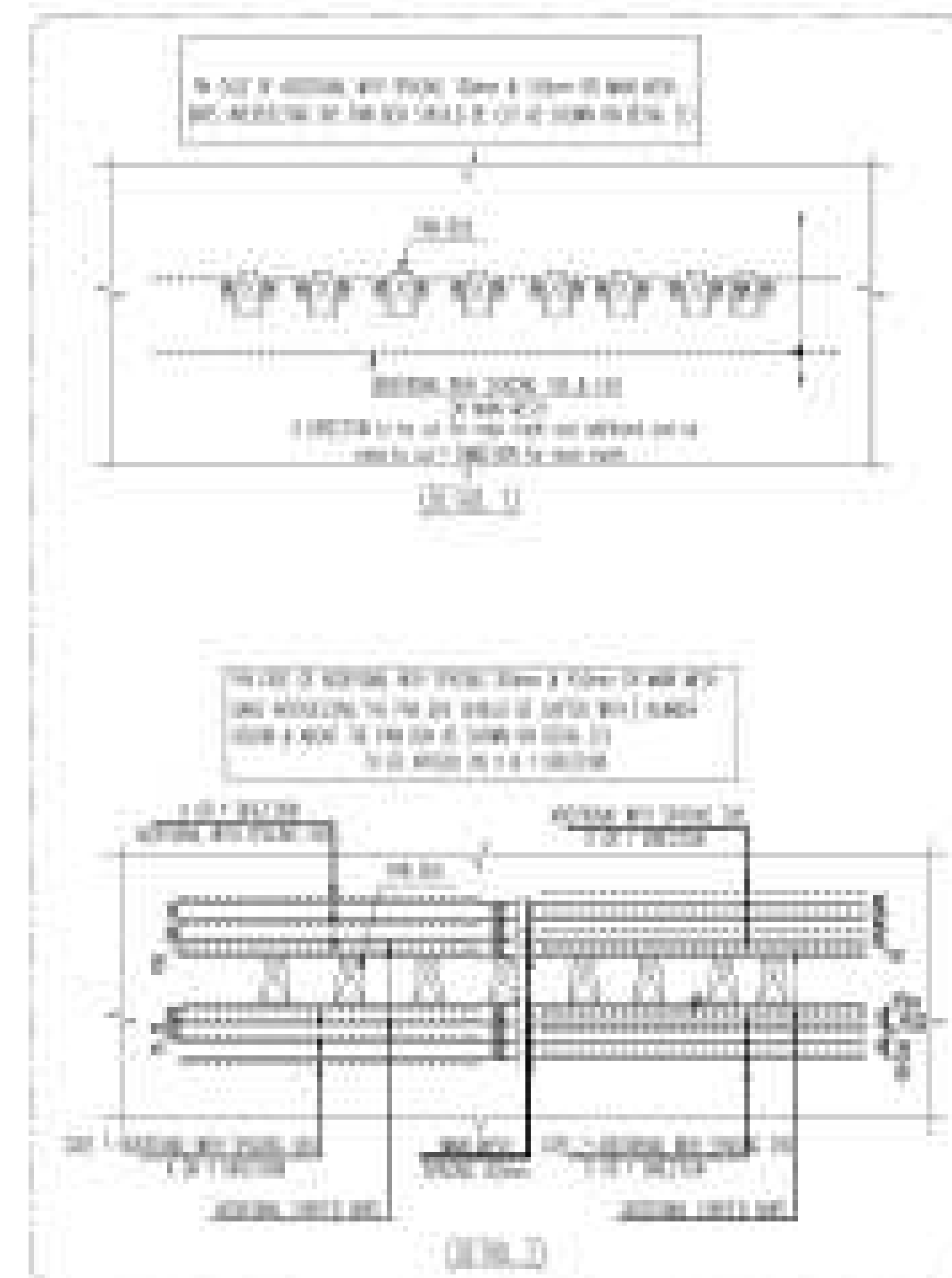


TABLE NO. 01 - THIS TABLE APPLIED TO BARS WITH CLOSURE

FLOOR NO.	TAKE FROM THE FLOOR
47TH FLOOR	-945
48TH FLOOR	-2000

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH 47TH FLOOR PT SHOP DRAWING TENDERS LAYERS

PROJECT NAME: Almam Downtown Towers

Ministry of Housing, Utilities & Urban Communities

New Urban Communities Authority

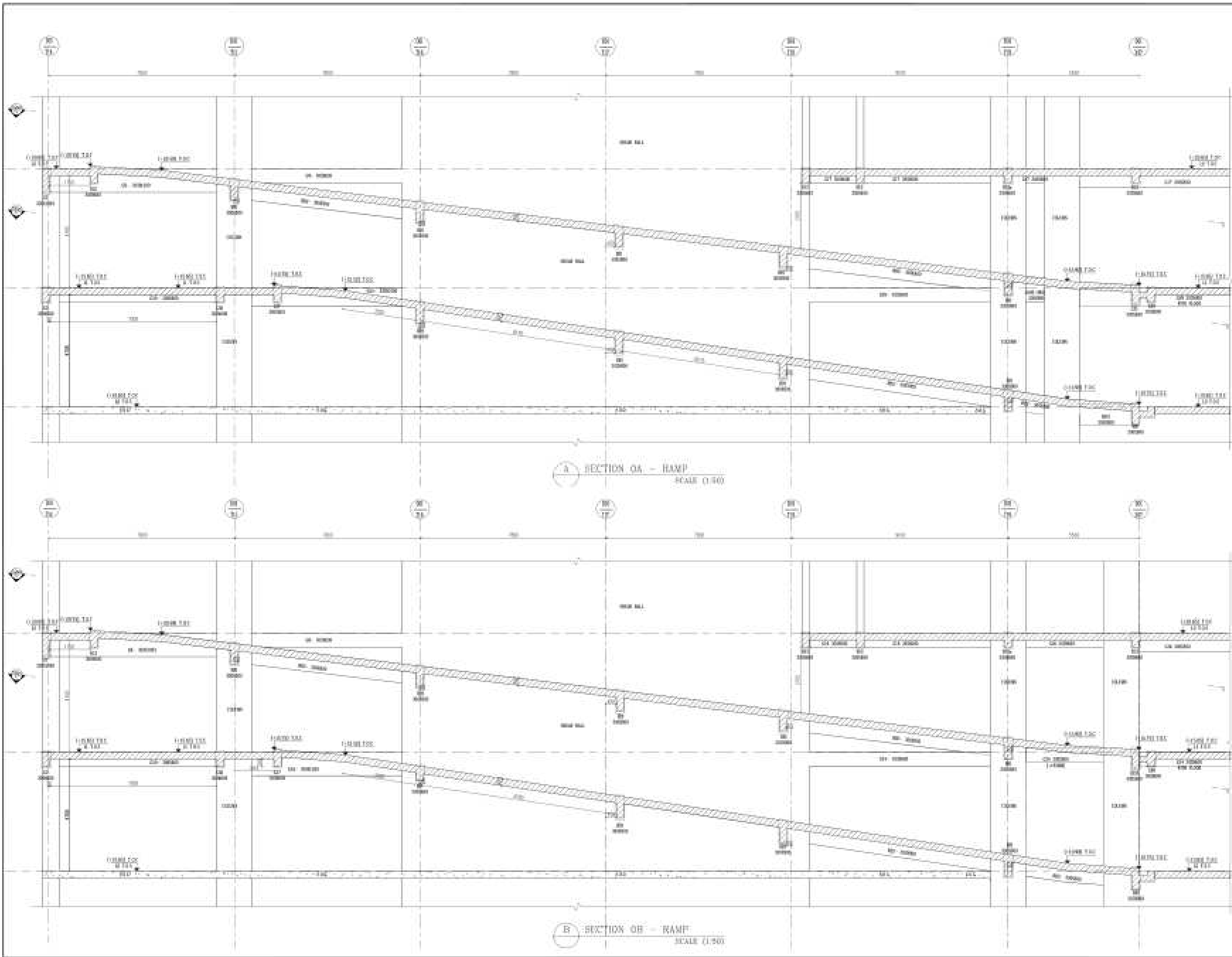
dar Dar Al-Handasah (Group) Share & Partners

CHINA RAILWAY GROUP LIMITED

TABLE NO. 01 - THIS TABLE APPLIED TO BARS WITH CLOSURE

FLOOR NO.	TAKE FROM THE FLOOR
47TH FLOOR	-945
48TH FLOOR	-2000

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH 47TH FLOOR PT SHOP DRAWING TENDERS LAYERS



A SECTION OA - RAMP
SCALE (1:500)

B SECTION OB - RAMP
SCALE (1:500)

PROJECT NAME
Alamein Downtown Towers
阿拉伯城塔楼及综合体项目

CLIENT
Ministry of Housing, Utilities & Urban Communities
New Urban Communities Authority

DESIGNER
dar Dar Al-Handasah (Group)
Chair & Partners

CONSULTANT
中國建築設計有限公司
CHINA ARCHITECTURE DESIGN CO., LTD.

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	2014.01.15
2	ISSUED FOR CONSTRUCTION	2014.02.15
3	ISSUED FOR AS-BUILT	2014.03.15

COORDINATION DATA

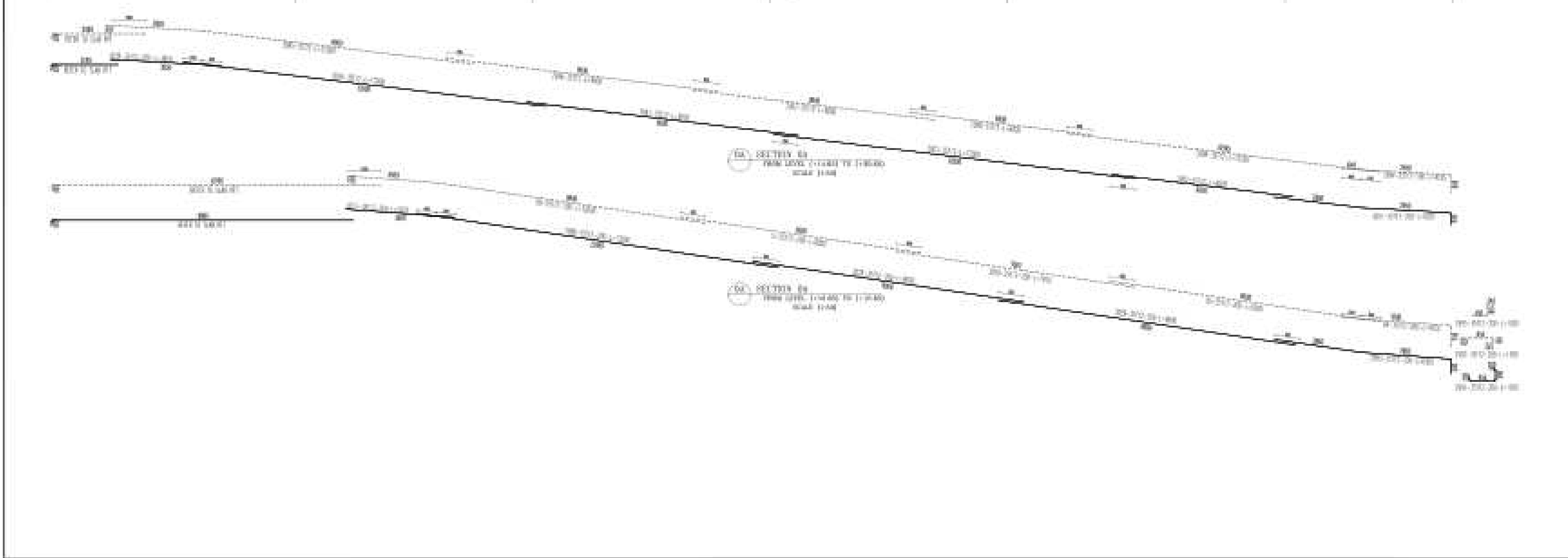
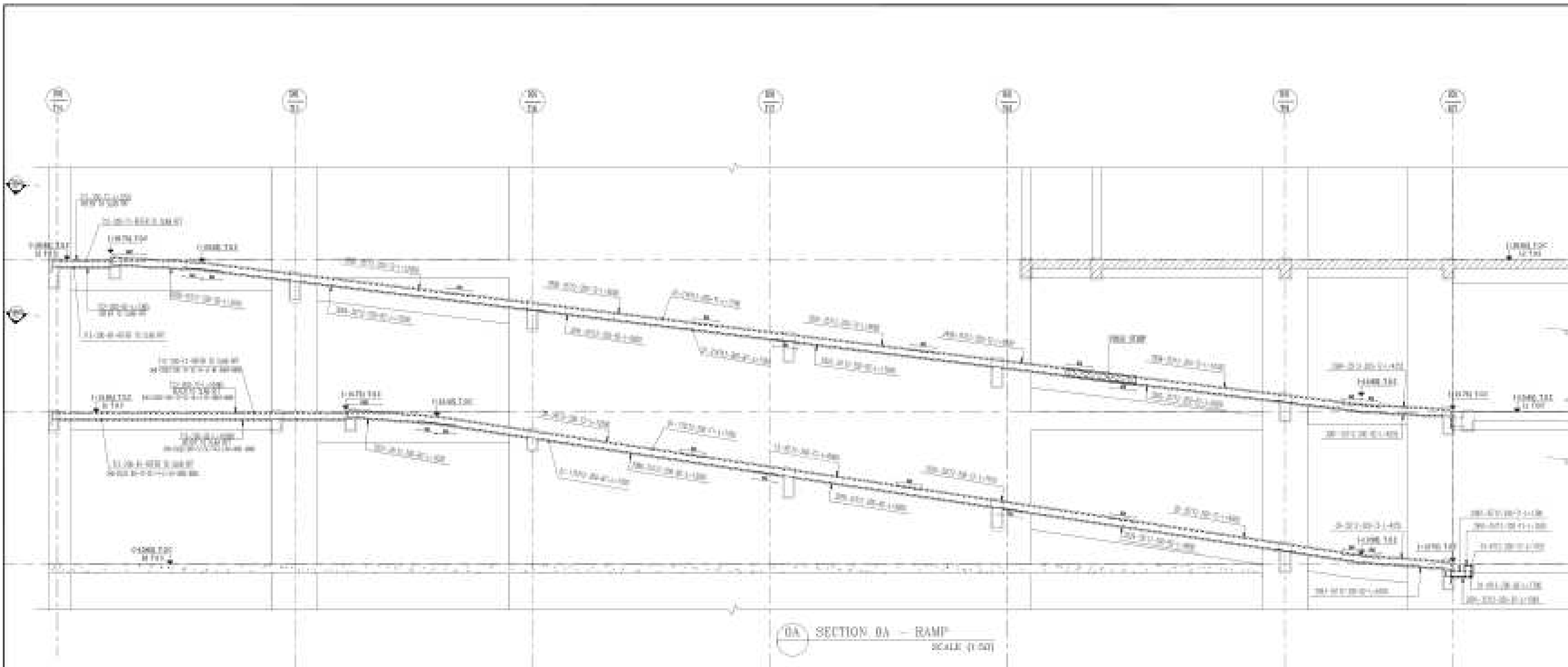
NO.	NAME	POSITION	DATE
1	Mr. [Name]	Project Manager	2014.01.15
2	Mr. [Name]	Structural Engineer	2014.01.15
3	Mr. [Name]	Architect	2014.01.15

DESIGN DATA

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	2014.01.15
2	ISSUED FOR CONSTRUCTION	2014.02.15
3	ISSUED FOR AS-BUILT	2014.03.15

IN CHARGE OF THE PROJECT
RAMP DESIGNER
SHEK C. OF J.

100 200 300 400 500 600 700 800 900 1000



NOTES

1. All dimensions are in meters unless otherwise specified.
2. All materials shall conform to the relevant Chinese standards.
3. The design is based on the provided site conditions and data.
4. The contractor shall be responsible for obtaining all necessary permits and approvals.
5. The design is subject to change without notice.

REVISIONS

NO.	DESCRIPTION	DATE
1	Initial design	2023-10-10

PROJECT DATA

Project Name: Alamein Downtown Towers
Project Location: Alamein, Egypt

Client: Ministry of Housing, Utilities & Urban Communities
Design Authority: New Urban Communities Authority

DESIGNER: dar Dar El-Hendawi (Saud) Shair & Partners

PROJECT DATA TABLE

NO.	DESCRIPTION	DATE
1	Initial design	2023-10-10

DESIGNATION TABLE

NO.	DESCRIPTION	DATE
1	Initial design	2023-10-10

REVISION TABLE

NO.	DESCRIPTION	DATE
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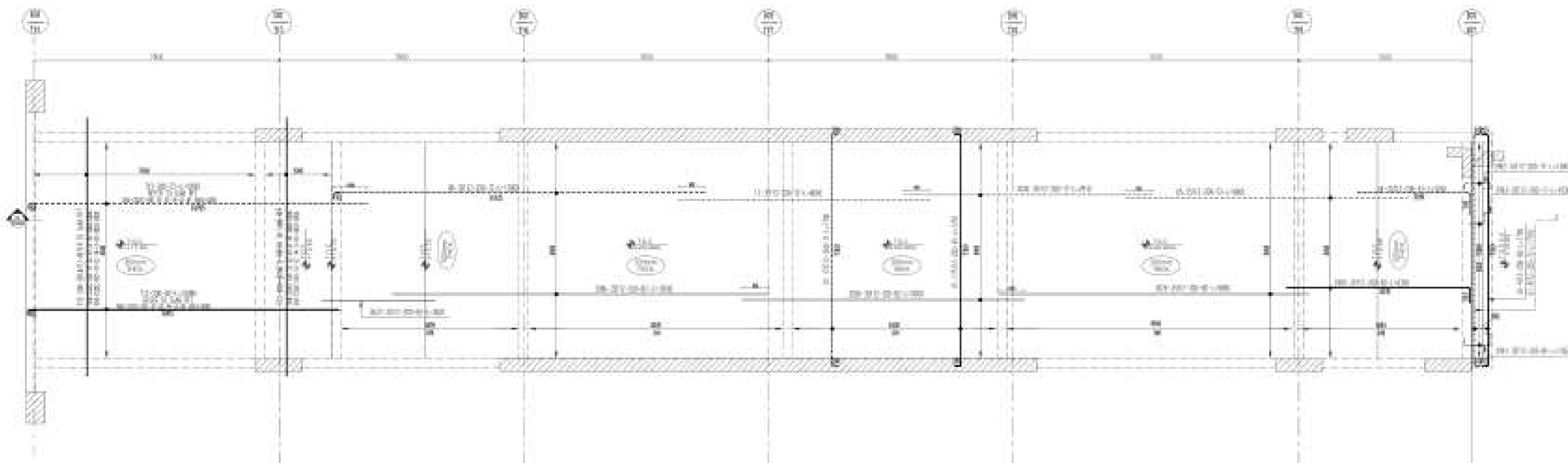
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 WITH: REVISIONS: 0000
 DATE: 10/10/23

APPENDIX

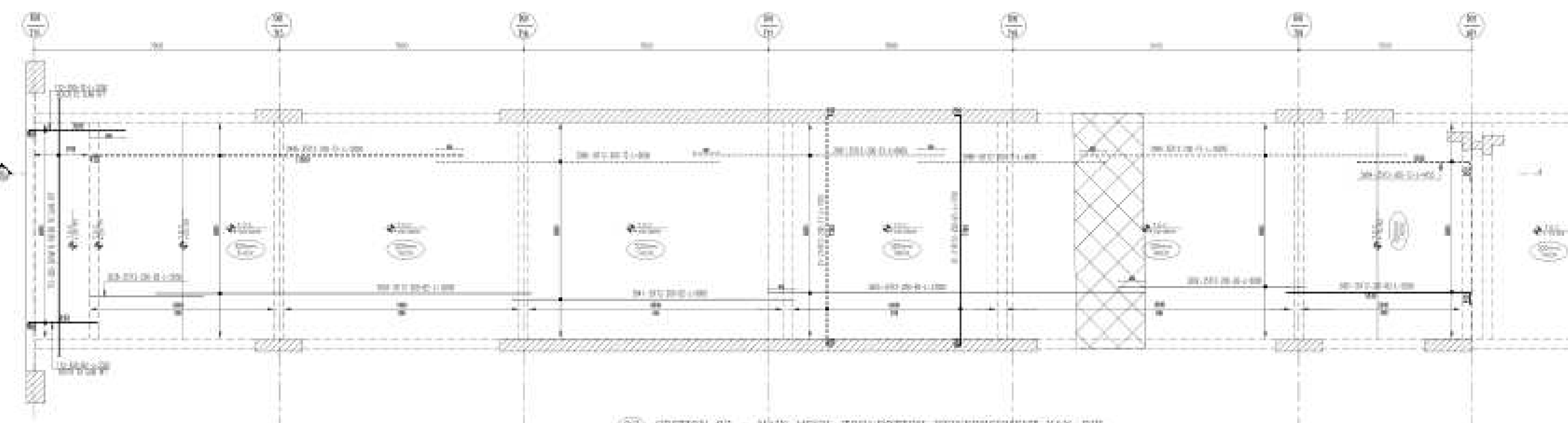
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1	Initial design	2023-10-10

APPENDIX TABLE

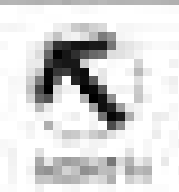
NO.	DESCRIPTION	DATE
1	Initial design	2023-10-10

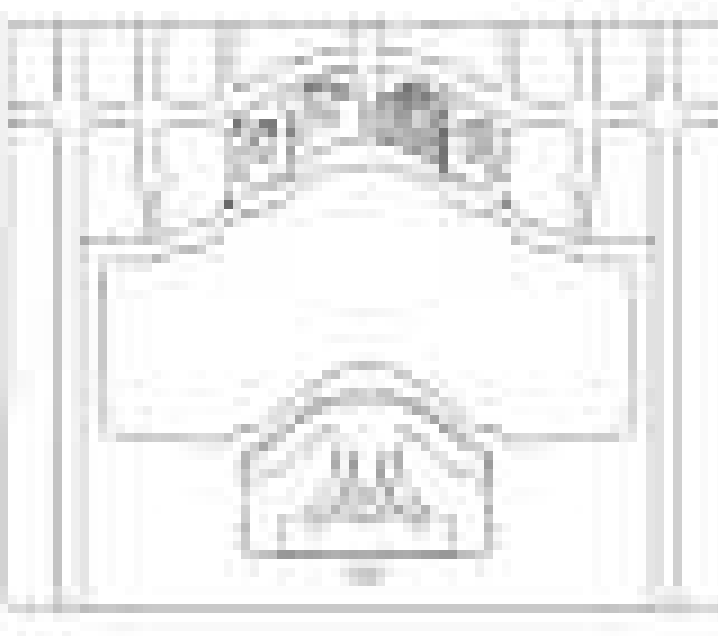


01 SECTION 01 - MAIN MESH TOP&BOTTOM REINFORCEMENT X&Y-DIR
FROM LEVEL (+10.00) TO (+10.85)
SCALE (1:50)



02 SECTION 02 - MAIN MESH TOP&BOTTOM REINFORCEMENT X&Y-DIR
FROM LEVEL (+10.85) TO (+10.95)
SCALE (1:50)





PROJECT NAME

Alamein Downtown Towers
阿拉米恩塔楼综合体项目

DATE

2023.10.10

Ministry of Housing, Utilities & Urban Communities

Ministry of Housing, Utilities & Urban Communities

New Urban Communities Authority

New Urban Communities Authority

DESIGNER

dar Dar Al-Handasah (Group)
Group & Partners

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	2023.10.10

APPROVED FOR

NO.	NAME	DATE
1	DESIGNER	2023.10.10
2	CHECKER	2023.10.10
3	APPROVER	2023.10.10

PROJECT DATA

NO.	DESCRIPTION	DATE
1	PROJECT NAME	2023.10.10
2	PROJECT LOCATION	2023.10.10
3	PROJECT TYPE	2023.10.10

DESIGN DATA

NO.	DESCRIPTION	DATE
1	DESIGNER	2023.10.10
2	CHECKER	2023.10.10
3	APPROVER	2023.10.10

IN CONSULTING FIRM

AND REINFORCEMENT DESIGN

AND NEW REINFORCEMENT FOR (X&Y-DIR)

DATE: 2023.10.10

PROJECT DATA

NO.	DESCRIPTION	DATE
1	PROJECT NAME	2023.10.10
2	PROJECT LOCATION	2023.10.10
3	PROJECT TYPE	2023.10.10

DESIGN DATA

NO.	DESCRIPTION	DATE
1	DESIGNER	2023.10.10
2	CHECKER	2023.10.10
3	APPROVER	2023.10.10

IN CONSULTING FIRM

AND REINFORCEMENT DESIGN

AND NEW REINFORCEMENT FOR (X&Y-DIR)

DATE: 2023.10.10

PROJECT DATA

NO.	DESCRIPTION	DATE
1	PROJECT NAME	2023.10.10
2	PROJECT LOCATION	2023.10.10
3	PROJECT TYPE	2023.10.10

DESIGN DATA

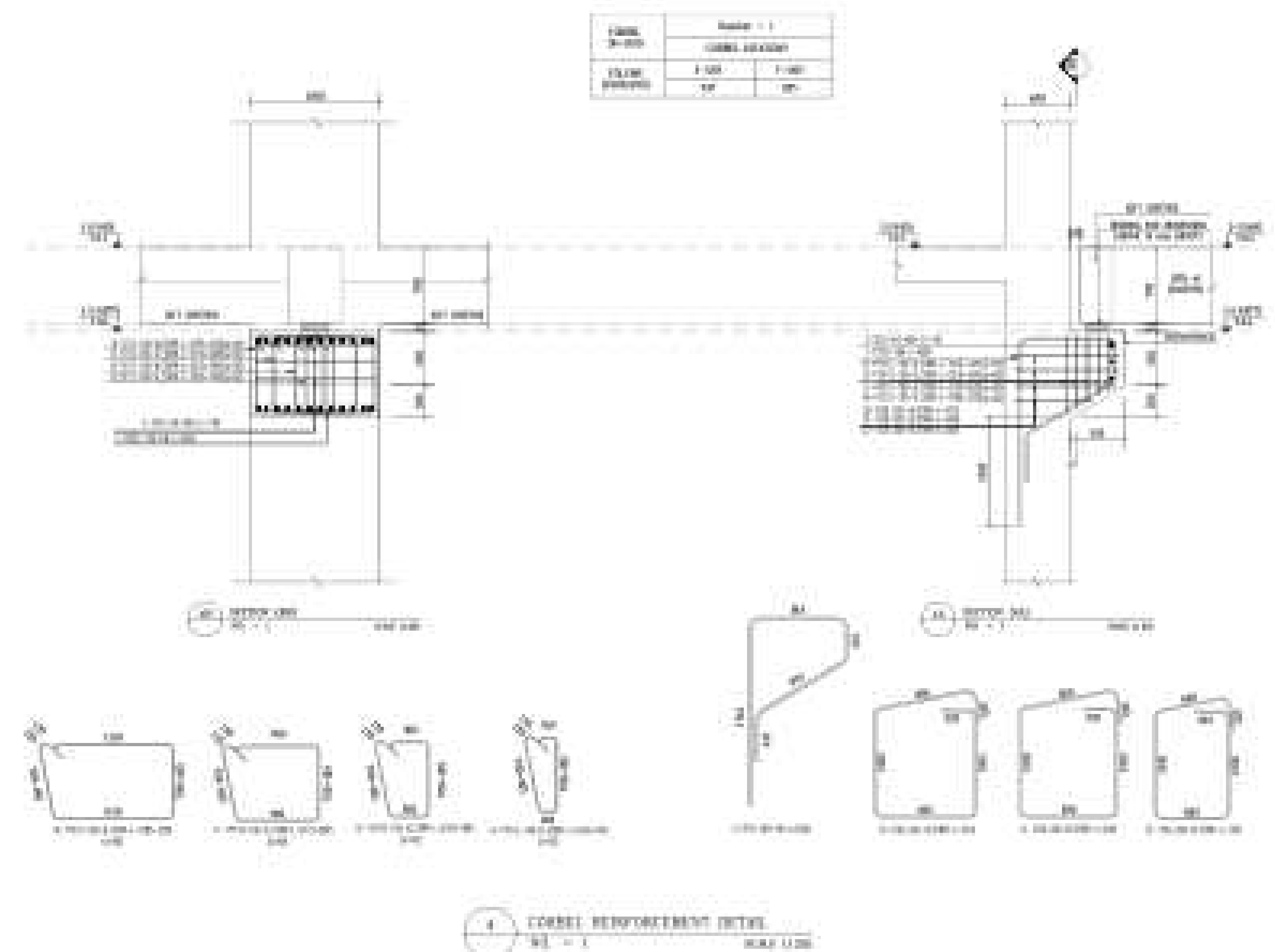
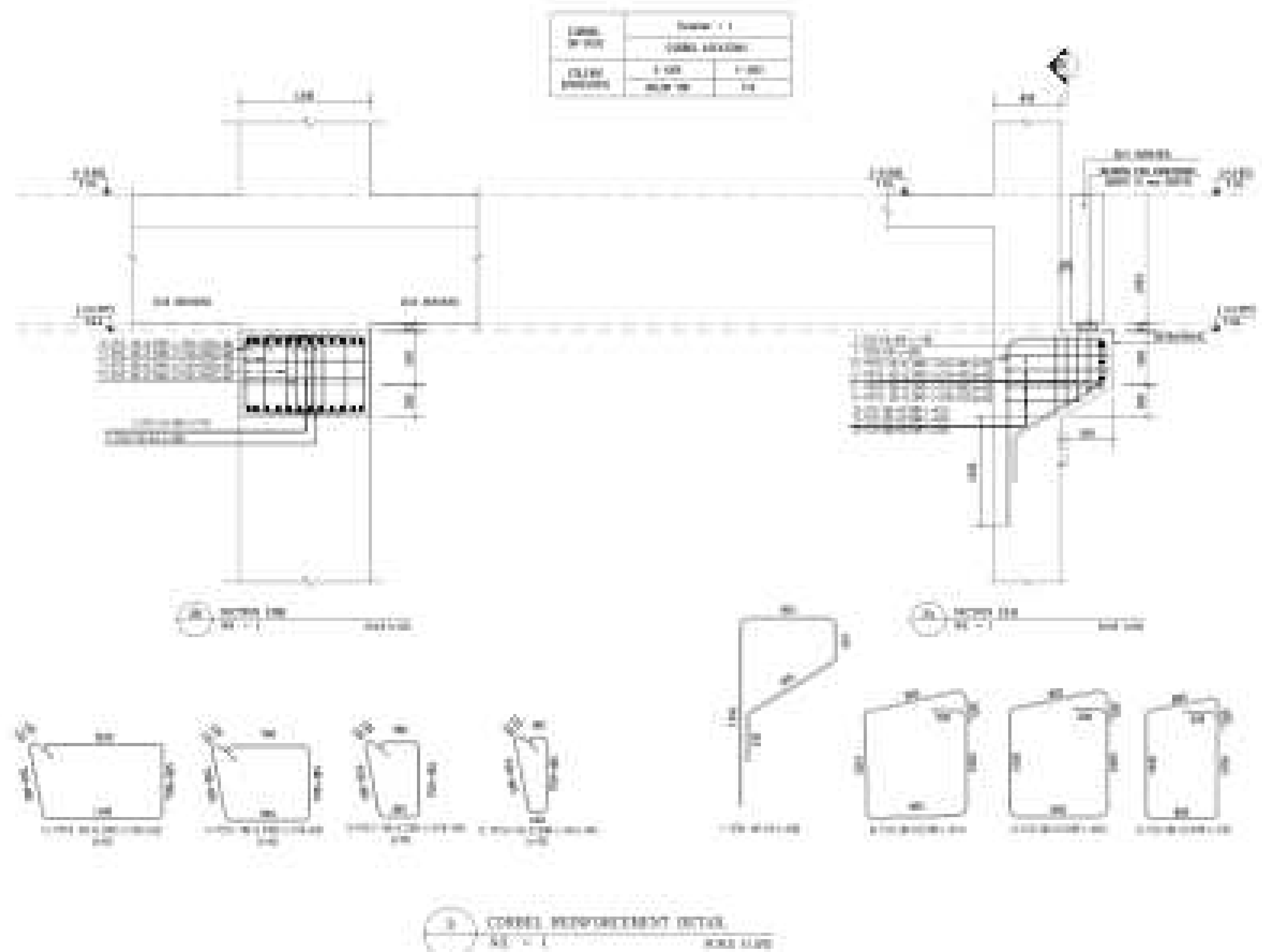
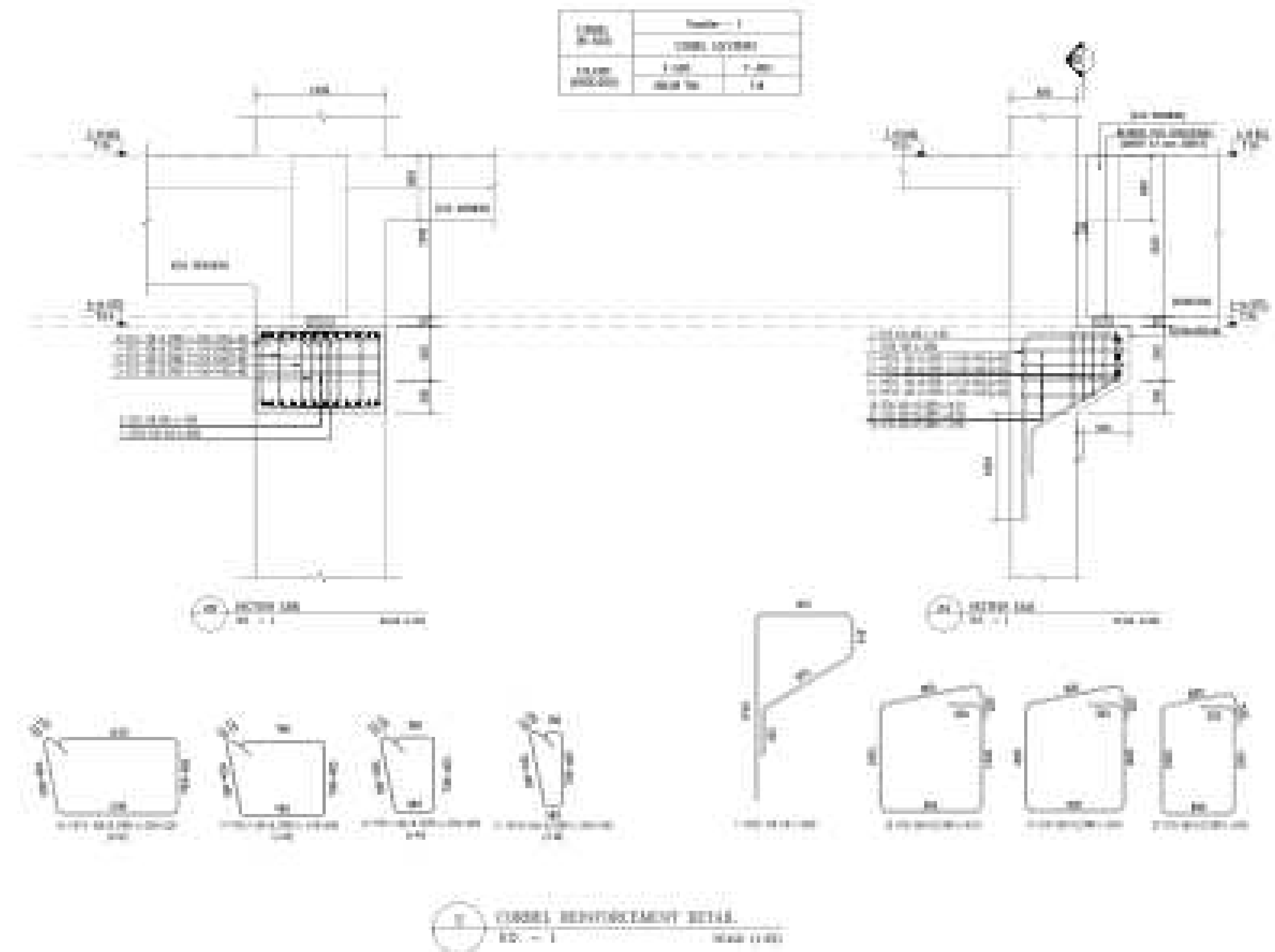
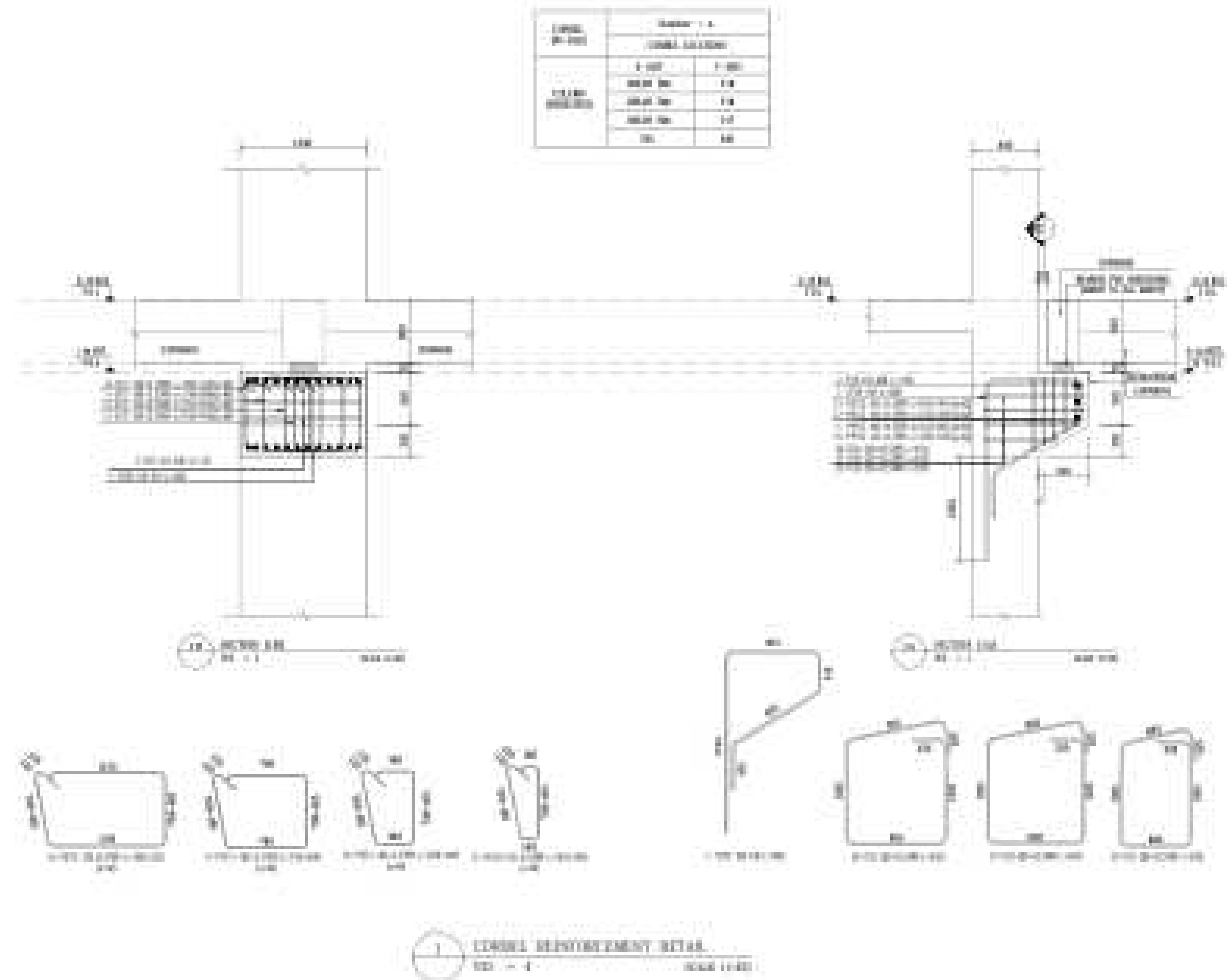
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2	CHECKER	2023.10.10
3	APPROVER	2023.10.10

IN CONSULTING FIRM

AND REINFORCEMENT DESIGN

AND NEW REINFORCEMENT FOR (X&Y-DIR)

DATE: 2023.10.10



NO. 1

NO. 2

NO. 3

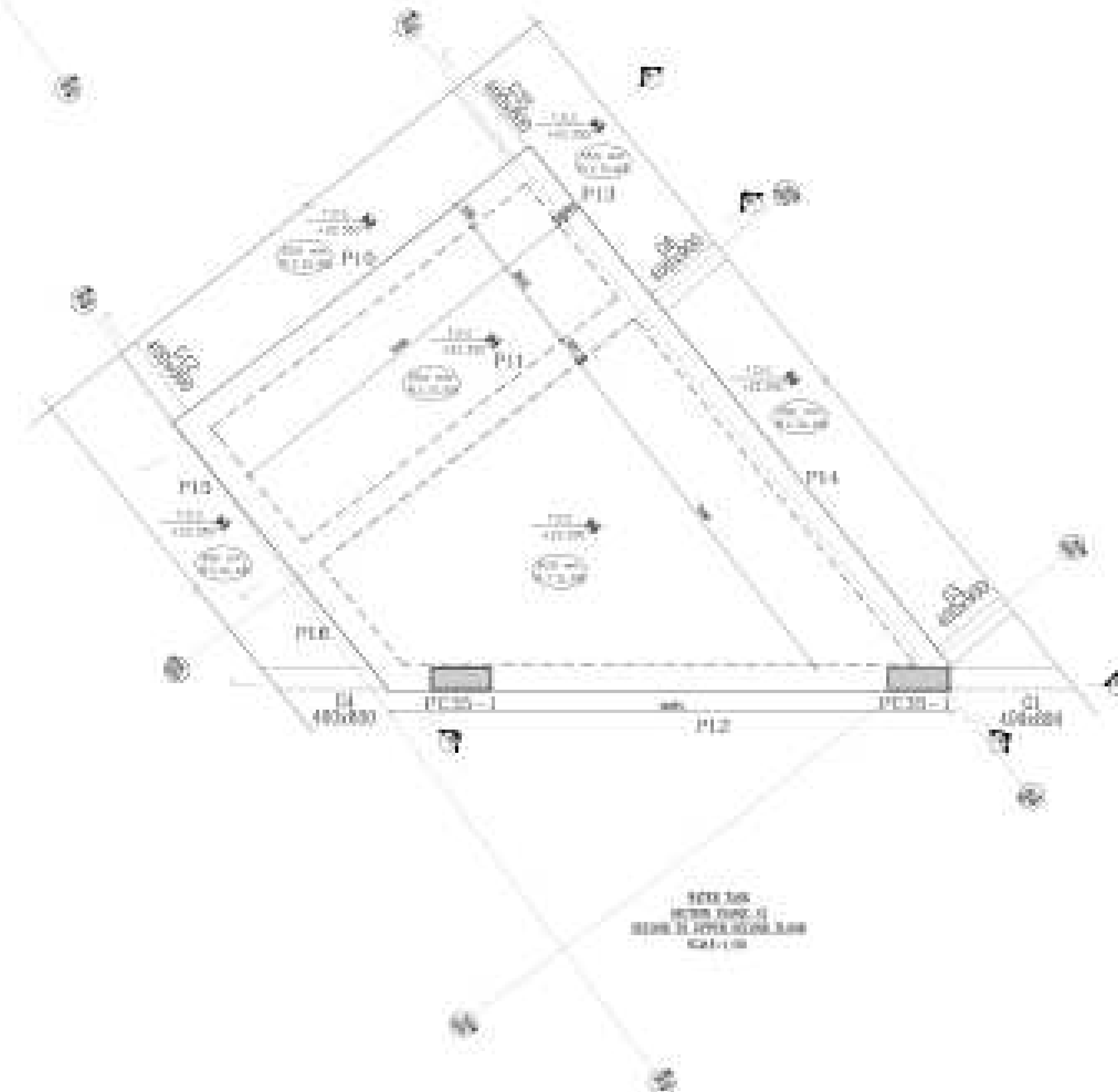
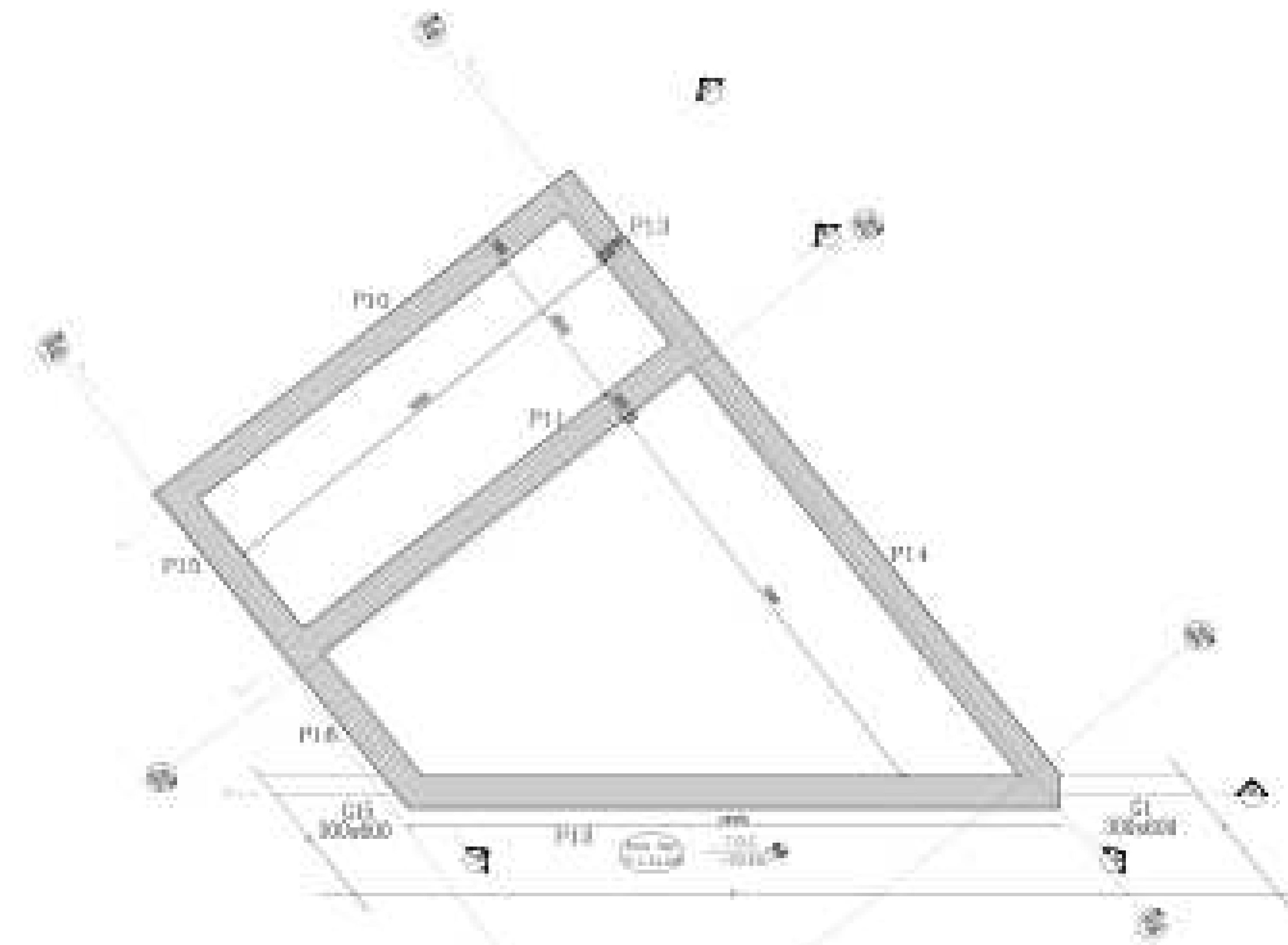
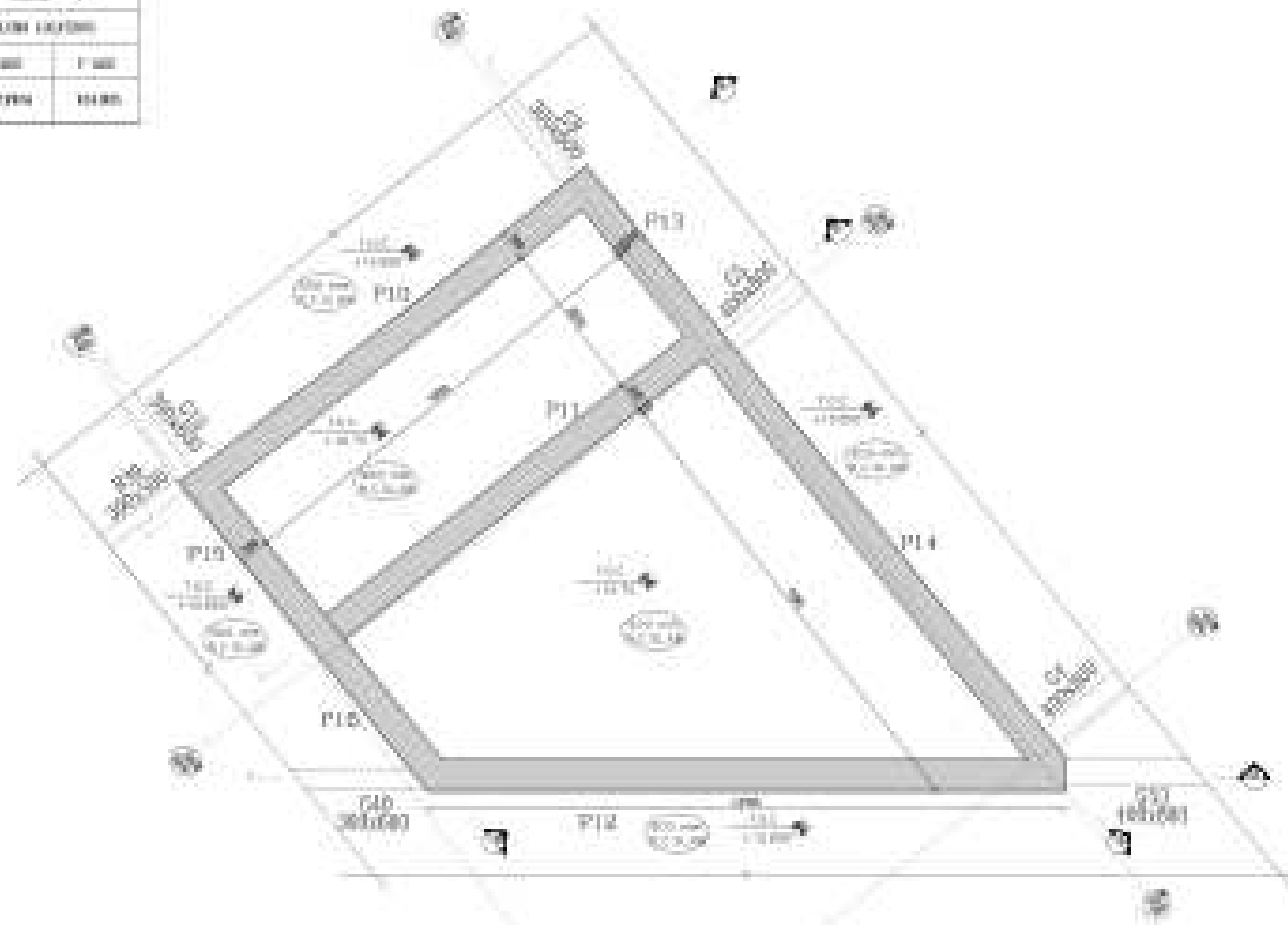
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NO. 5

NO. 6

NO. 7

Scale	Sheet - 3	
	Scale	Scale
Scale	Scale	Scale



Project Name:
Alamein Downtown Towers

Client:
Ministry of Housing, Utilities & Urban Communities

Design Authority:
New Urban Communities Authority

Design Firm:
dar Dar Al-Hendakhi & Partners

Scale:
1/100

Sheet:
3 of 3

COORDINATION TABLE

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR PERMIT	2023/05/01	...	...
2	FOR CONSTRUCTION	2023/05/01	...	...

REVISION TABLE

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR PERMIT	2023/05/01	...	...
2	FOR CONSTRUCTION	2023/05/01	...	...

SCALE

1/100

DATE

2023/05/01

BY

...

CHKD.

...

APP. (A)

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APP. (B)

...

APP. (C)

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APP. (D)

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APP. (E)

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APP. (F)

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APP. (G)

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APP. (H)

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APP. (J)

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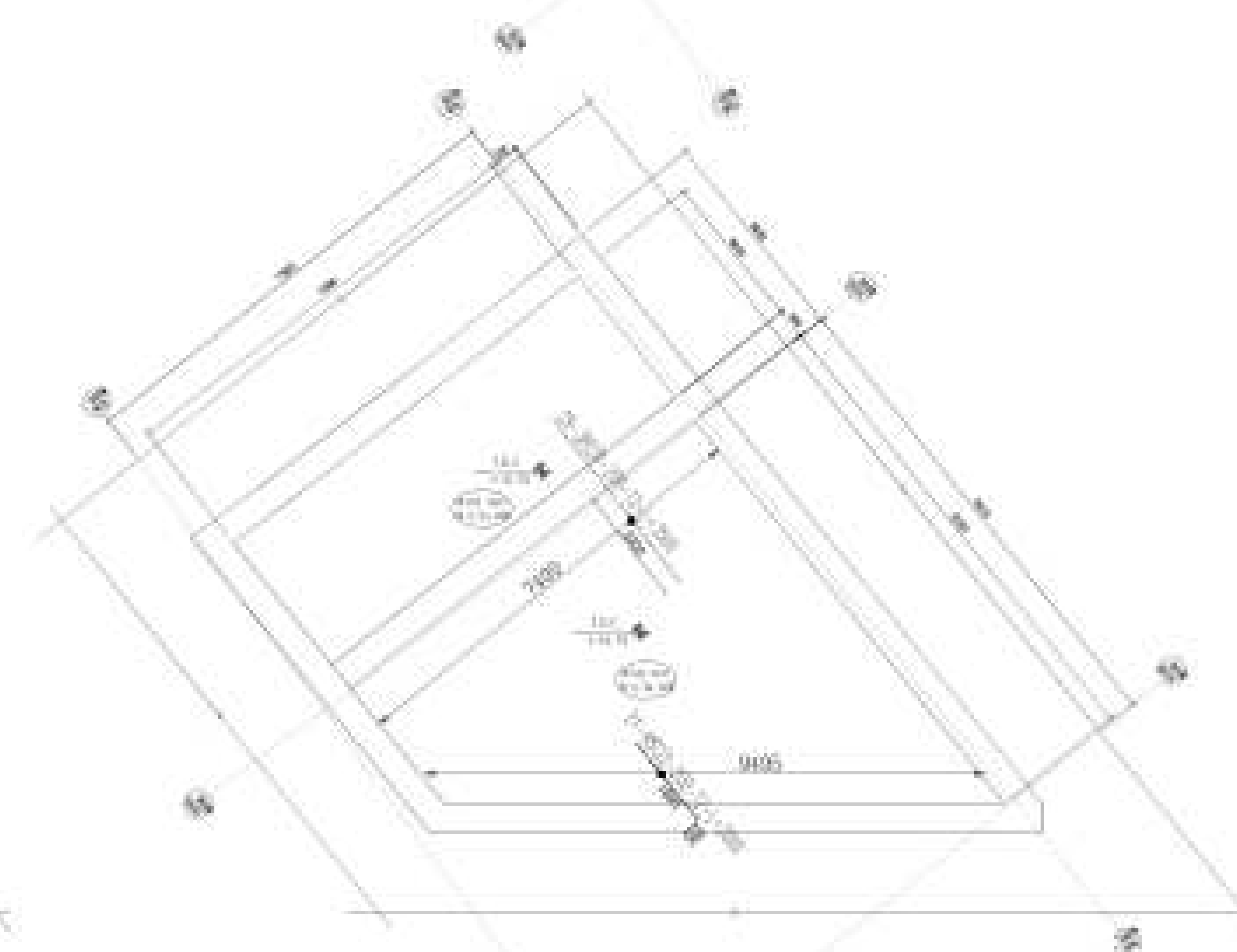
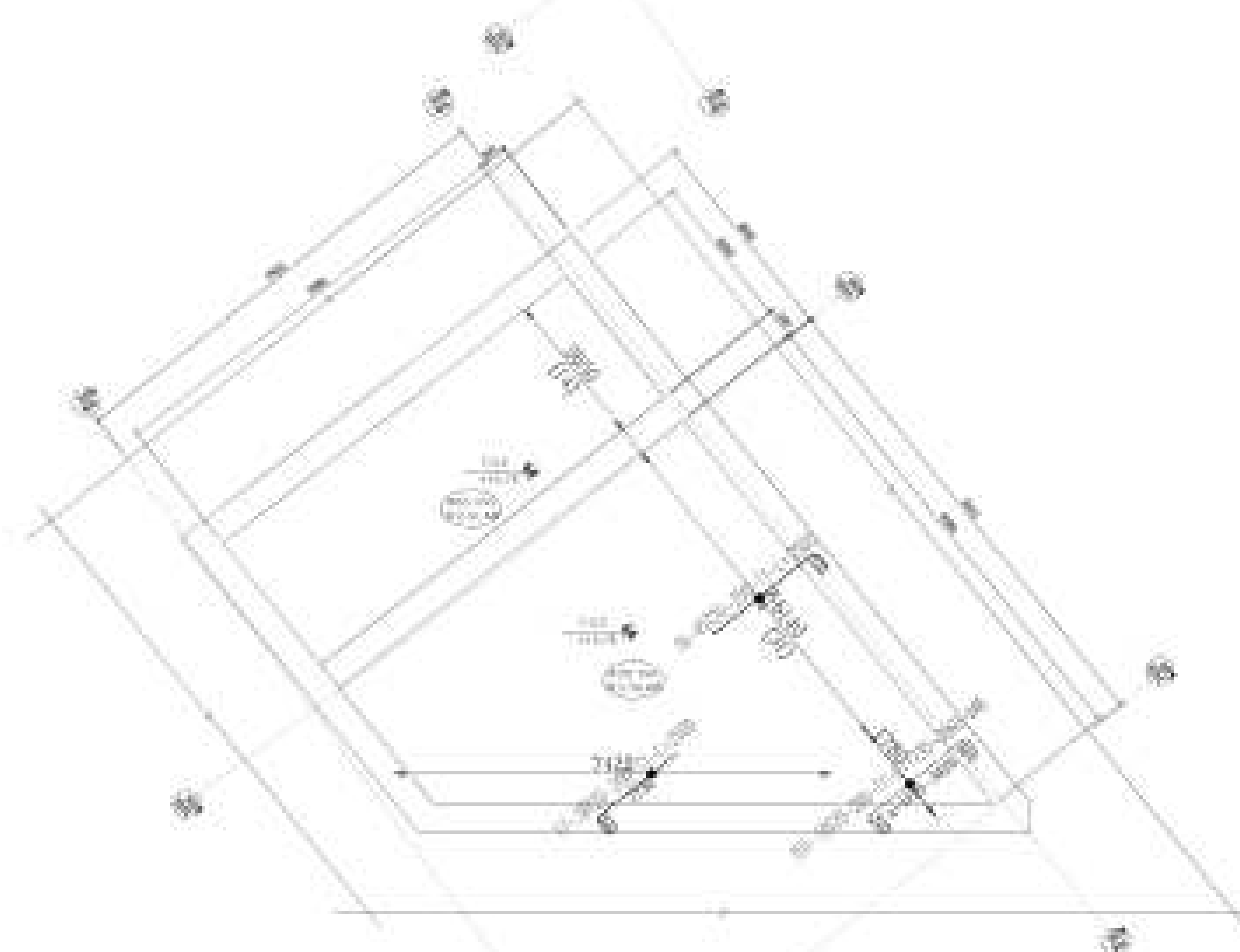
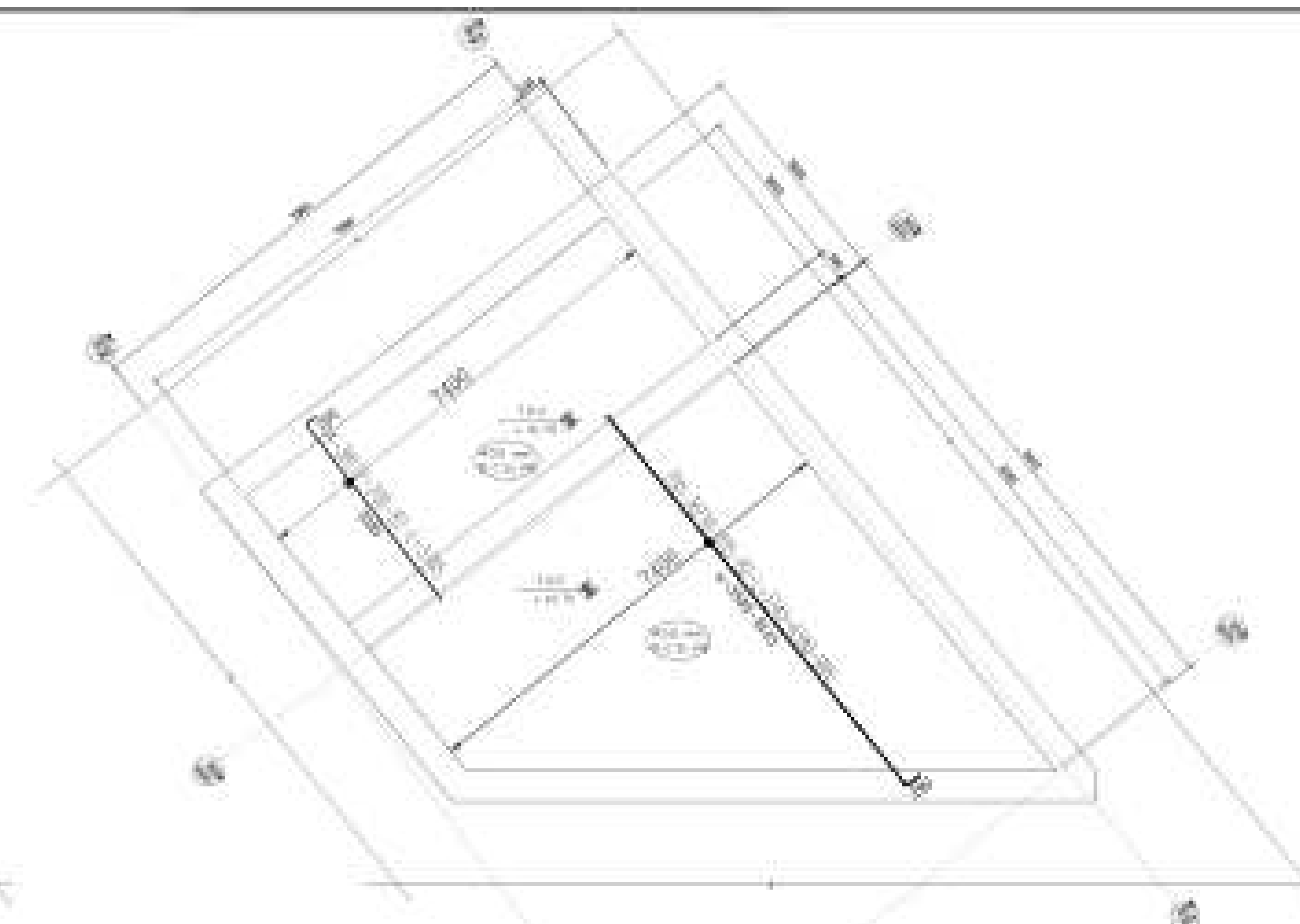
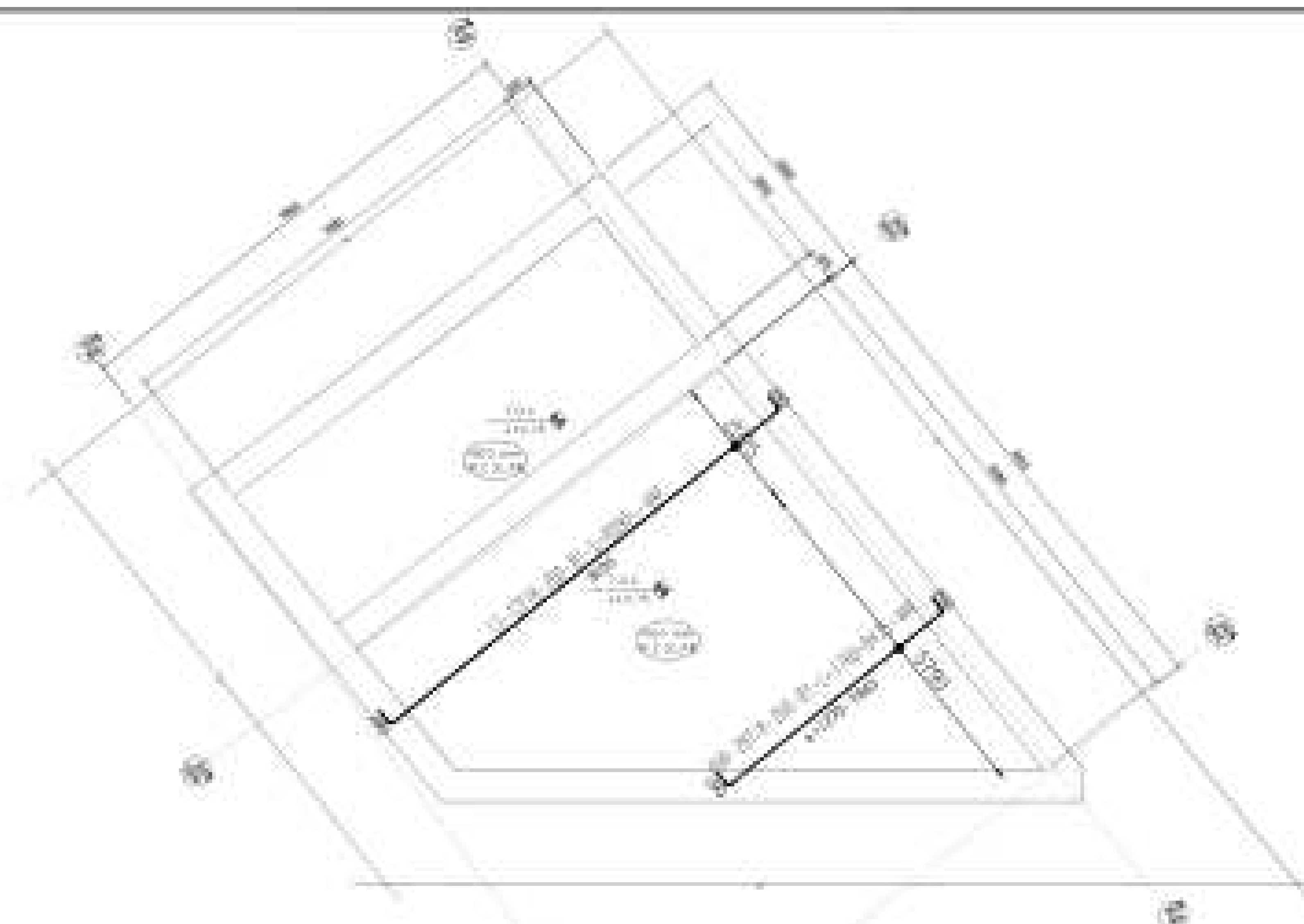
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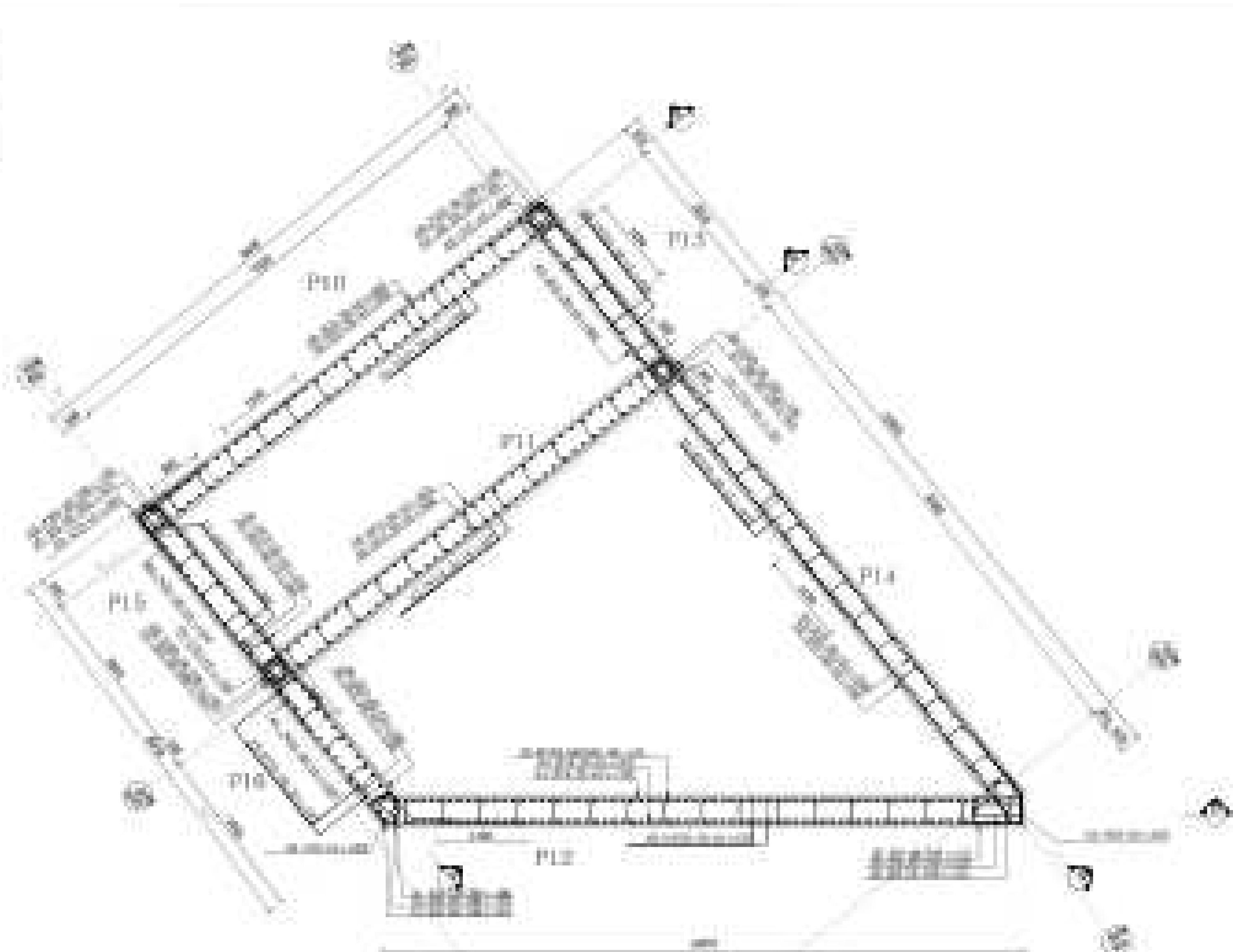
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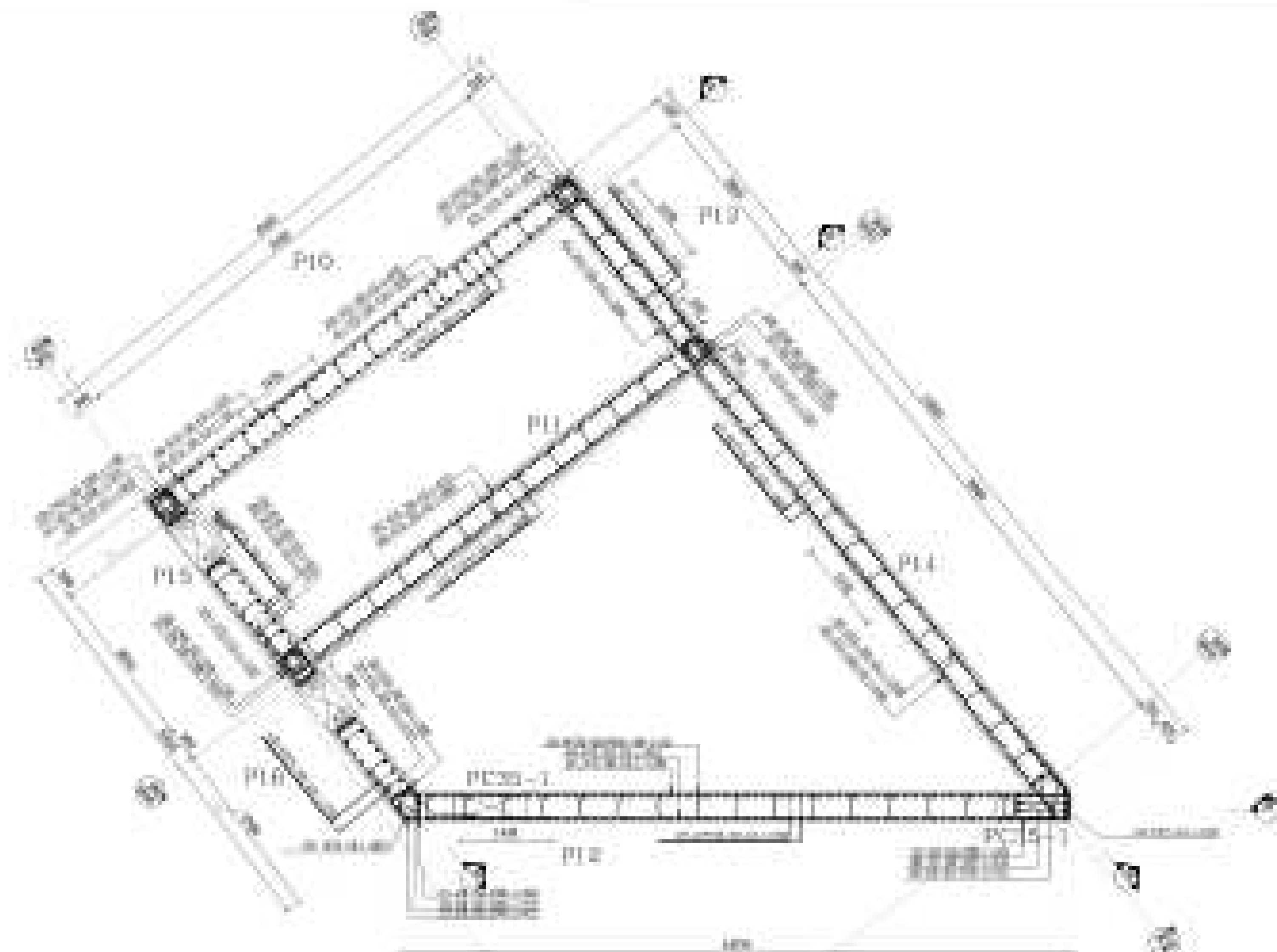
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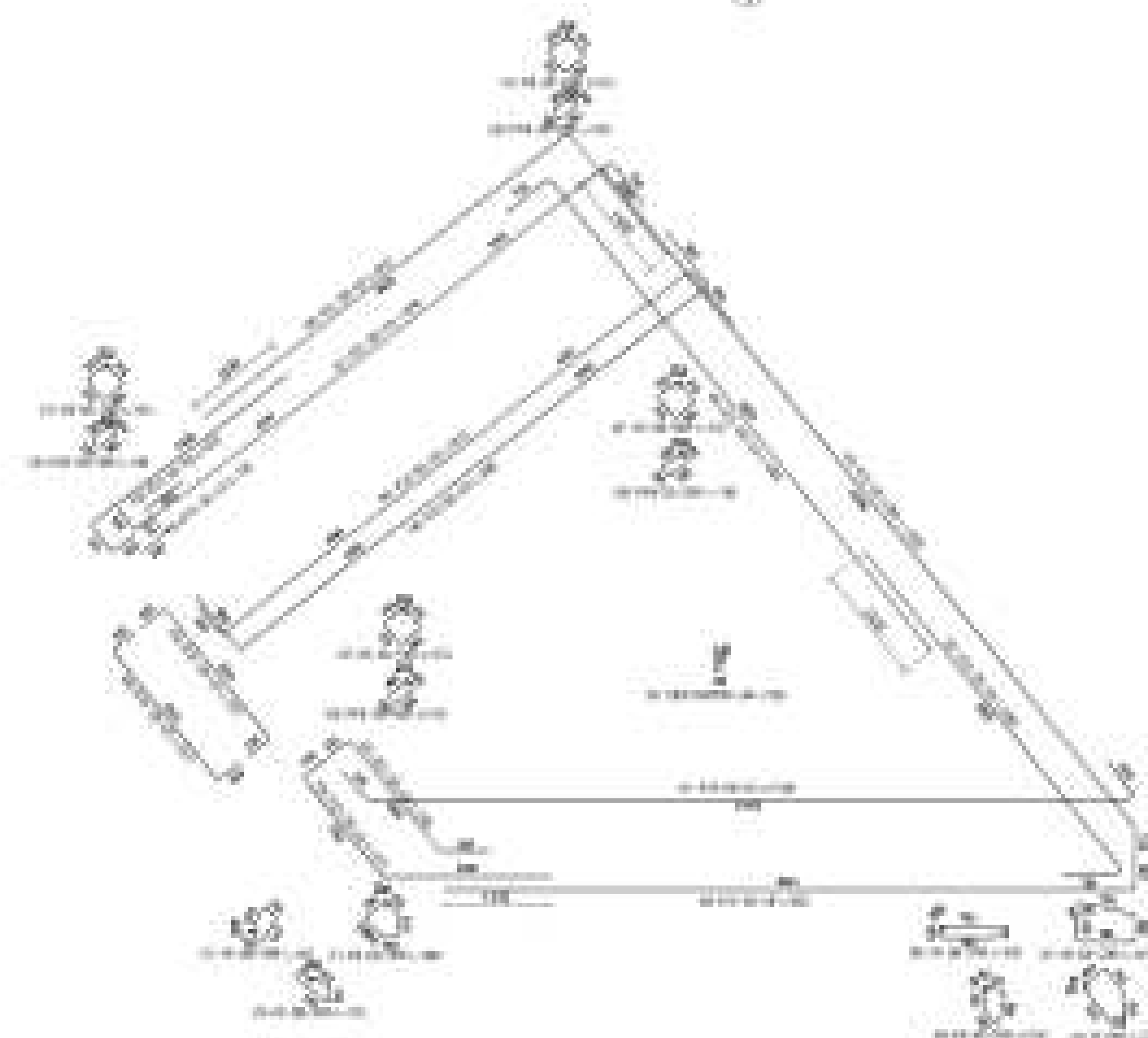
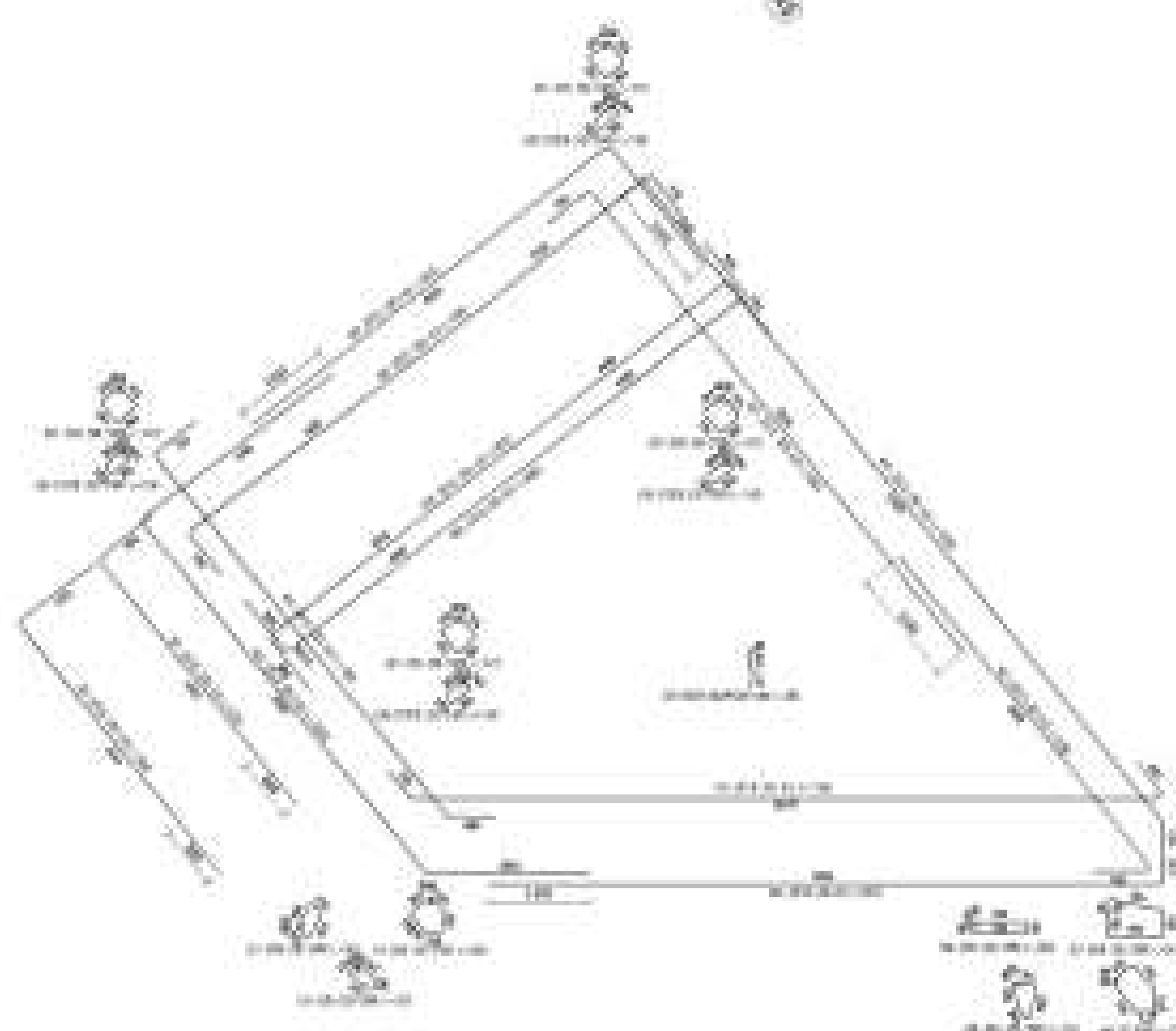
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	DATE	REVISION
NO. 100	10/20/2018	1.000



SEE PLAN
SECTION 100-10
FOR THE OTHER SIDE OF THE
SECTION 100-10

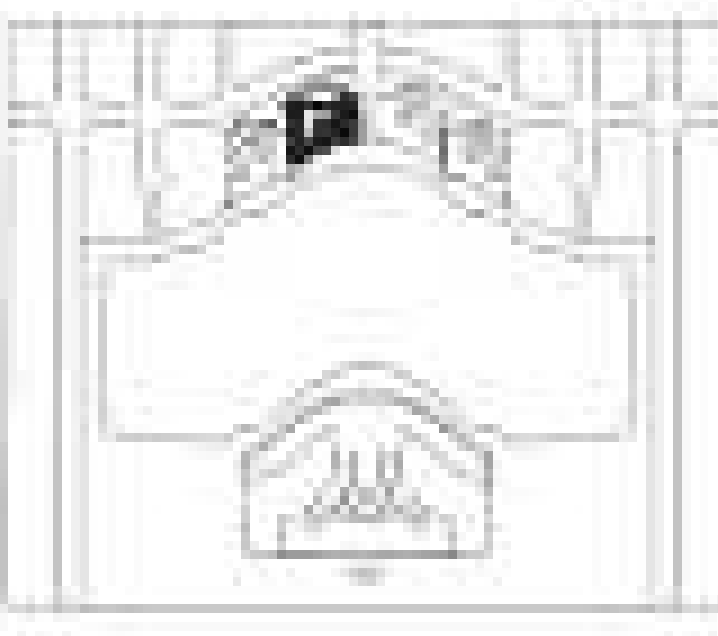


SEE PLAN
SECTION 100-10
FOR THE OTHER SIDE OF THE
SECTION 100-10





NORTH



NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL DIMENSIONS ARE TO THE CENTER OF THE ROAD OR TO THE CENTER OF THE BUILDING FOOTPRINT.
3. ALL DIMENSIONS ARE TO THE CENTER OF THE ROAD OR TO THE CENTER OF THE BUILDING FOOTPRINT.
4. ALL DIMENSIONS ARE TO THE CENTER OF THE ROAD OR TO THE CENTER OF THE BUILDING FOOTPRINT.
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10. ALL DIMENSIONS ARE TO THE CENTER OF THE ROAD OR TO THE CENTER OF THE BUILDING FOOTPRINT.



PROJECT NAME:

Almain Downtown Towers

同安路周边高层综合体项目

OWNER:

Ministry of Housing, Utilities & Urban Communities

New Urban Communities Authority

DESIGNER:

dar Dar Al-Handasah (Group)

Design & Partners

PREPARED BY:

中國建築設計有限公司

CHINA ARCHITECTURAL DESIGN CO., LTD.

REVISION TABLE:

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	10/20/2018
2	ISSUED FOR PERMIT	10/20/2018
3	ISSUED FOR PERMIT	10/20/2018
4	ISSUED FOR PERMIT	10/20/2018
5	ISSUED FOR PERMIT	10/20/2018
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7	ISSUED FOR PERMIT	10/20/2018
8	ISSUED FOR PERMIT	10/20/2018
9	ISSUED FOR PERMIT	10/20/2018
10	ISSUED FOR PERMIT	10/20/2018

APPROVED BY:

DATE: 10/20/2018

BY: [Signature]

PROJECT NAME:

Almain Downtown Towers

同安路周边高层综合体项目

OWNER:

Ministry of Housing, Utilities & Urban Communities

New Urban Communities Authority

DESIGNER:

dar Dar Al-Handasah (Group)

Design & Partners

PREPARED BY:

中國建築設計有限公司

CHINA ARCHITECTURAL DESIGN CO., LTD.

REVISION TABLE:

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	10/20/2018
2	ISSUED FOR PERMIT	10/20/2018
3	ISSUED FOR PERMIT	10/20/2018
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8	ISSUED FOR PERMIT	10/20/2018
9	ISSUED FOR PERMIT	10/20/2018
10	ISSUED FOR PERMIT	10/20/2018

APPROVED BY:

DATE: 10/20/2018

BY: [Signature]

PROJECT NAME:

Almain Downtown Towers

同安路周边高层综合体项目

OWNER:

Ministry of Housing, Utilities & Urban Communities

New Urban Communities Authority

DESIGNER:

dar Dar Al-Handasah (Group)

Design & Partners

PREPARED BY:

中國建築設計有限公司

CHINA ARCHITECTURAL DESIGN CO., LTD.

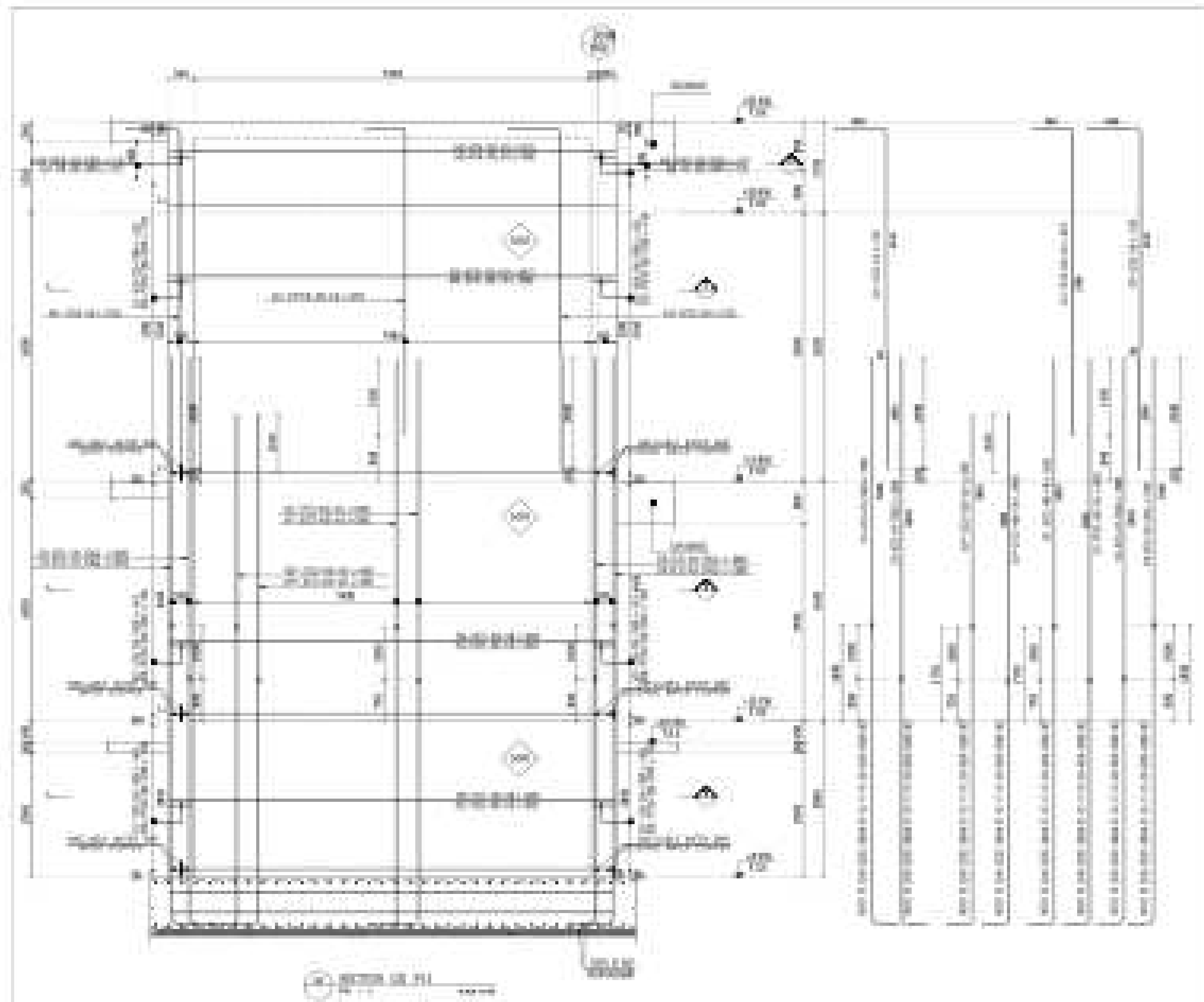
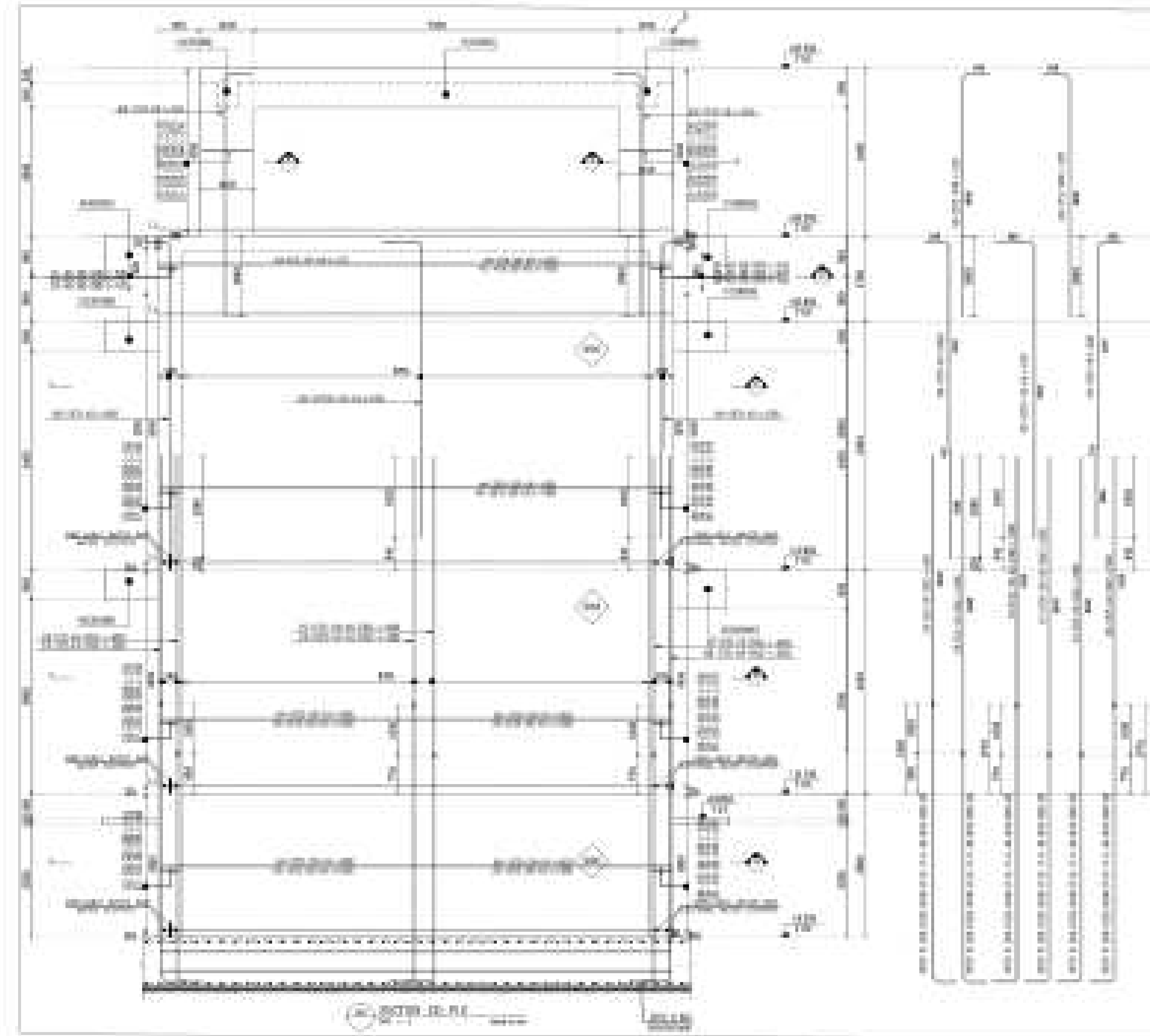
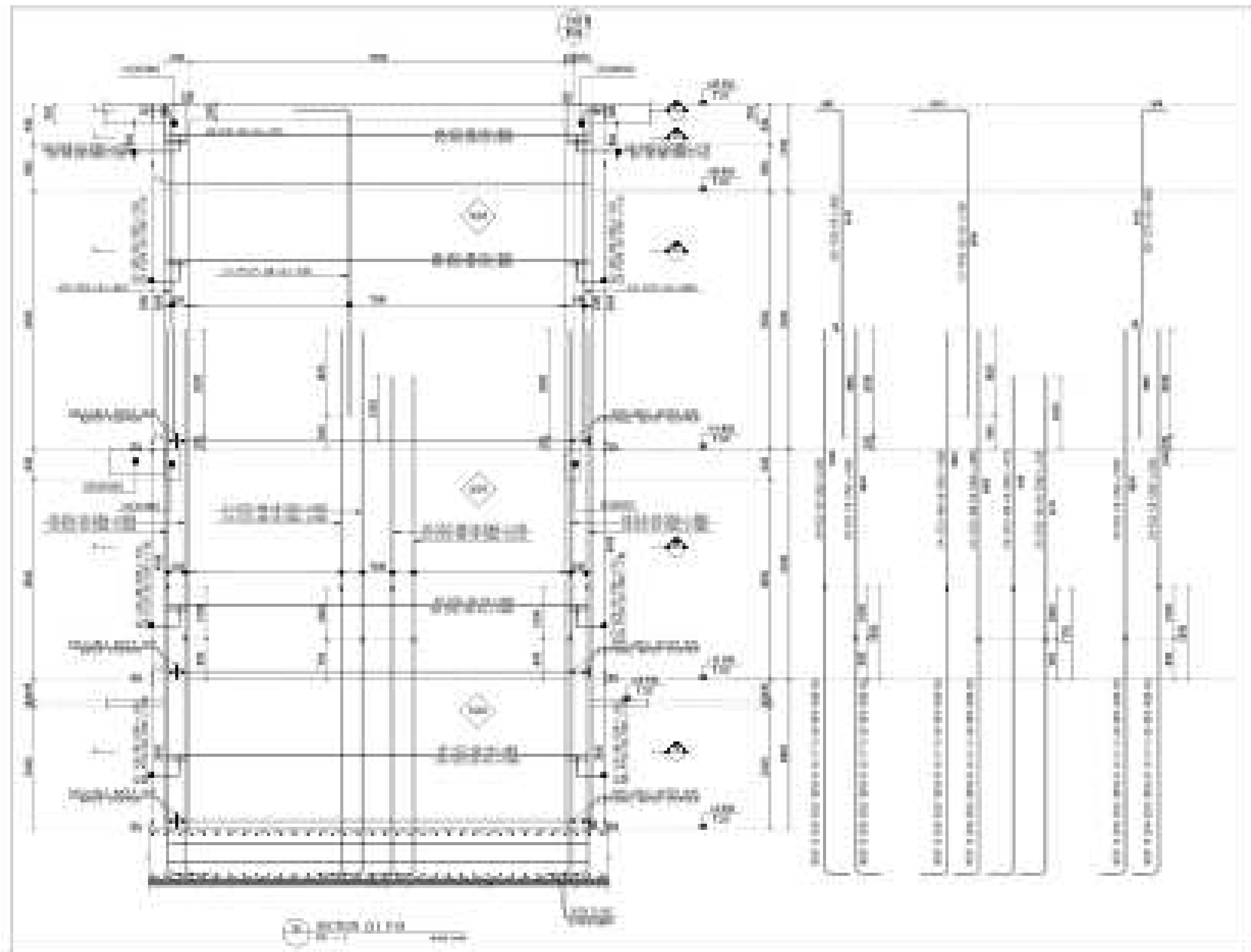
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9	ISSUED FOR PERMIT	10/20/2018
10	ISSUED FOR PERMIT	10/20/2018

APPROVED BY:

DATE: 10/20/2018

BY: [Signature]



01/10

NORTH

01/11

01/12

PROJECT NAME

Alman Downtown Towers
阿曼新城塔楼综合体项目

OWNER

Ministry of Housing, Utilities & Urban Communities

New Urban Communities Authority

DESIGNER

dar Dar Al-Handasah (Group)
Design & Partners

PREPARED BY

中国建筑集团有限公司
CHINA ARCHITECTURE GROUP CO., LTD.

REVISION TABLE

NO.	REVISION	DATE
1	Initial Design	2014.01.10
2	Design Development	2014.02.10
3	Final Design	2014.03.10

APPROVAL TABLE

NO.	REVISION	DATE
1	Initial Design	2014.01.10
2	Design Development	2014.02.10
3	Final Design	2014.03.10

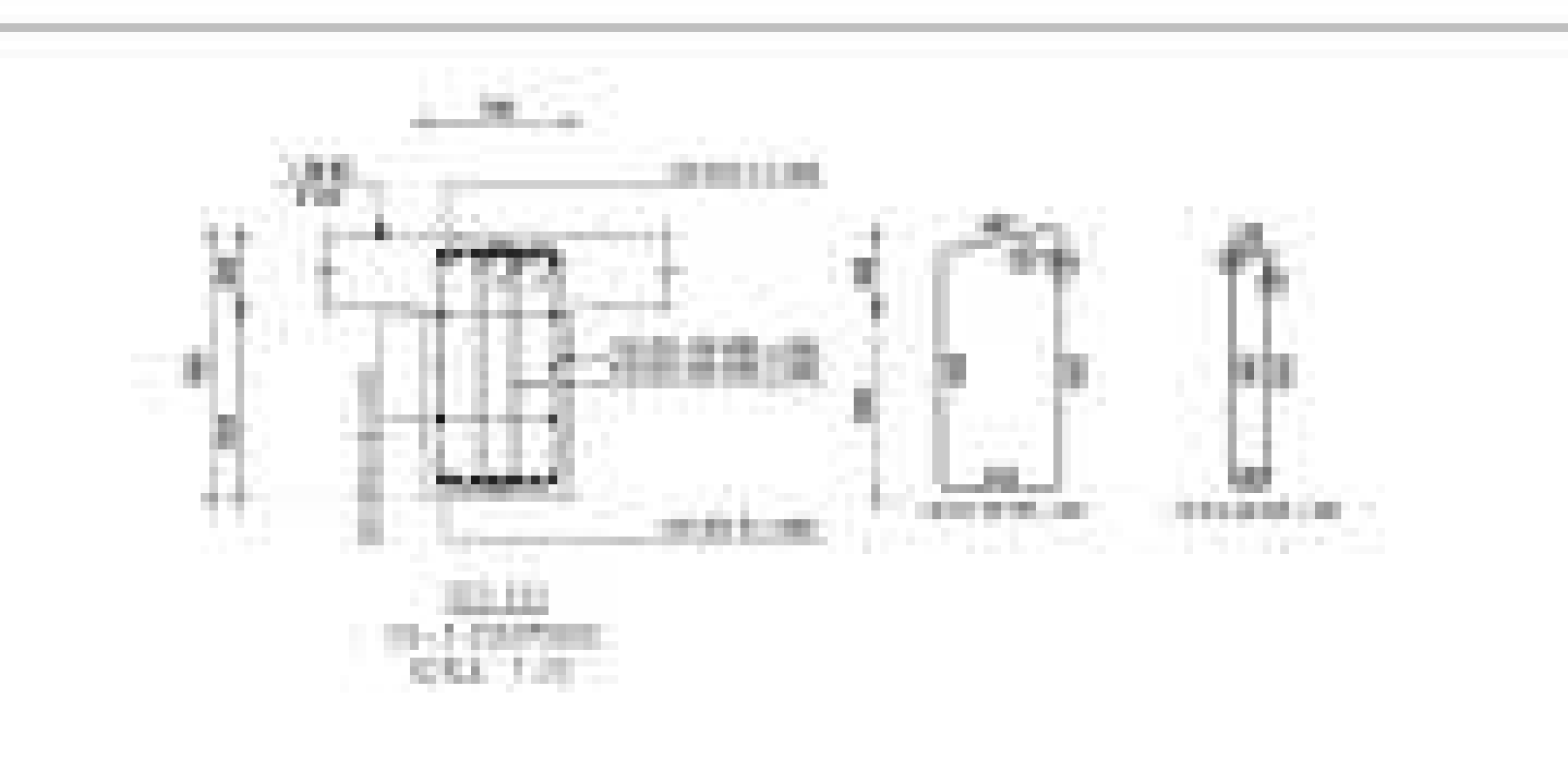
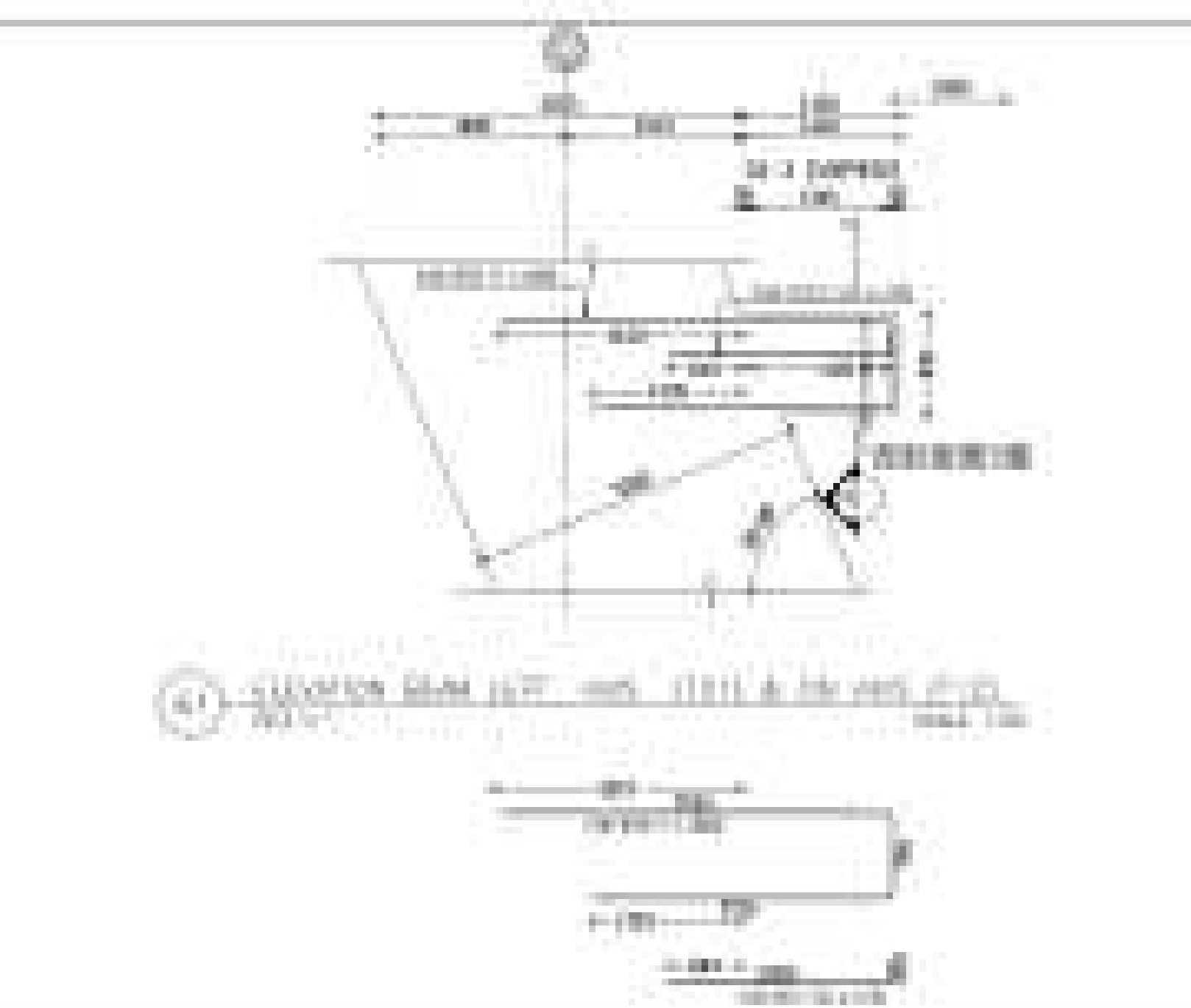
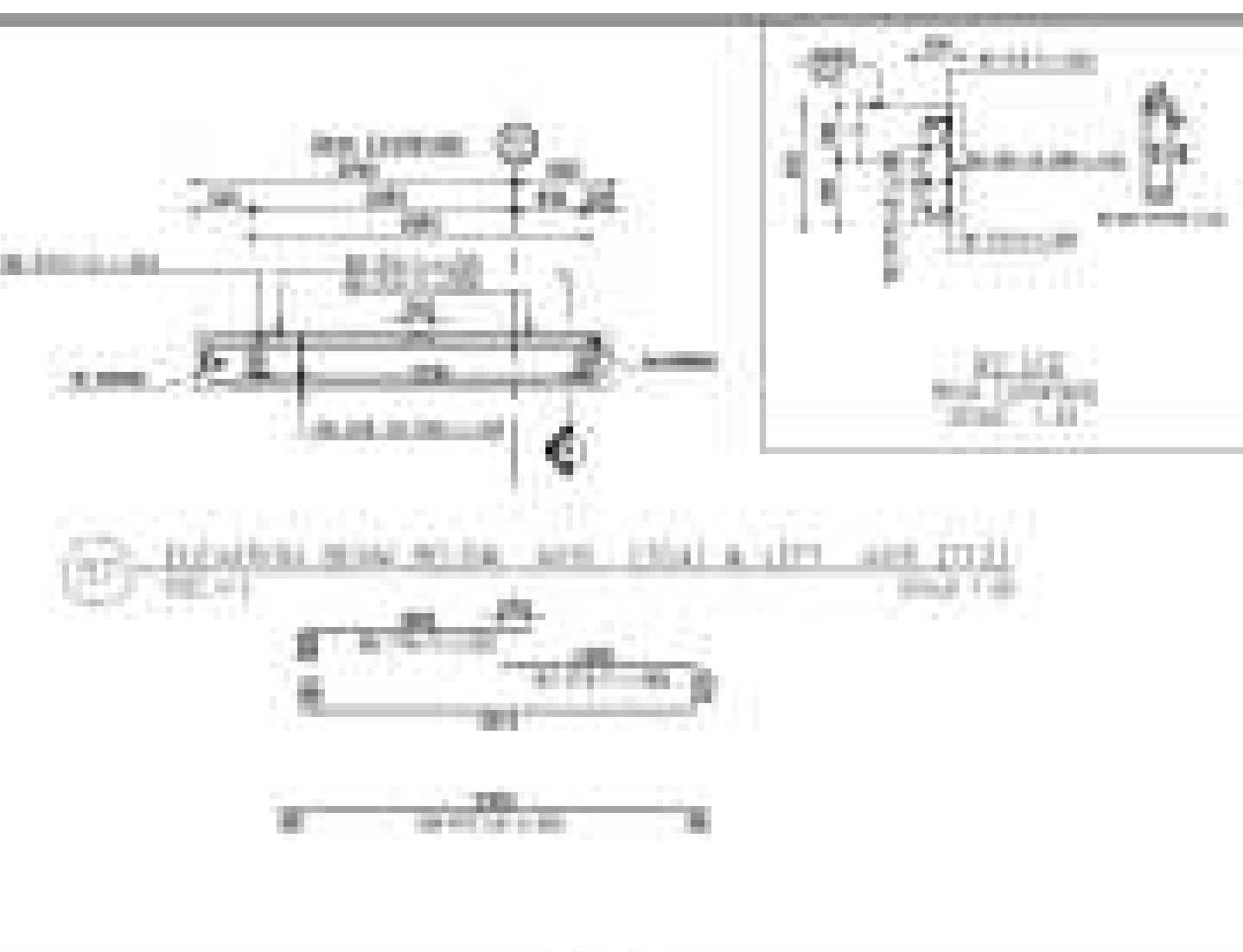
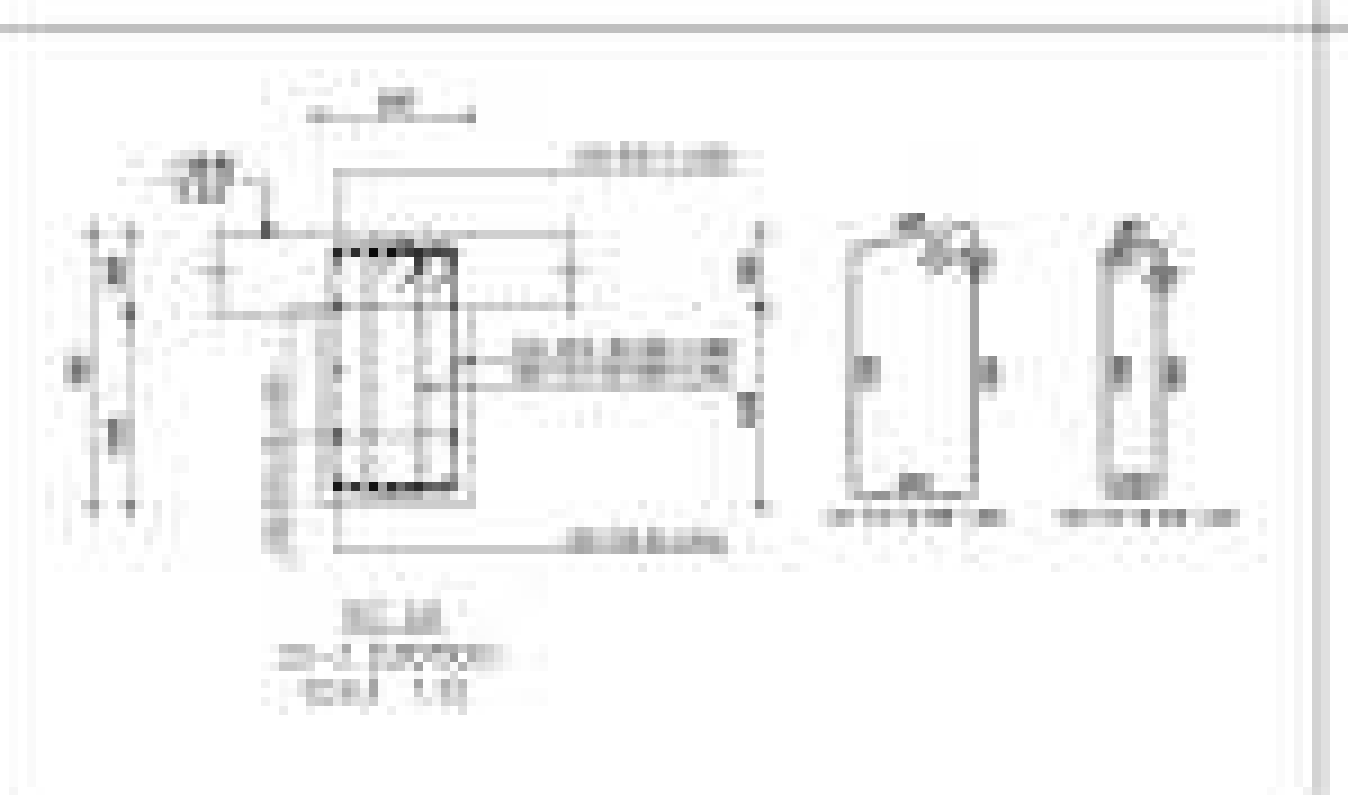
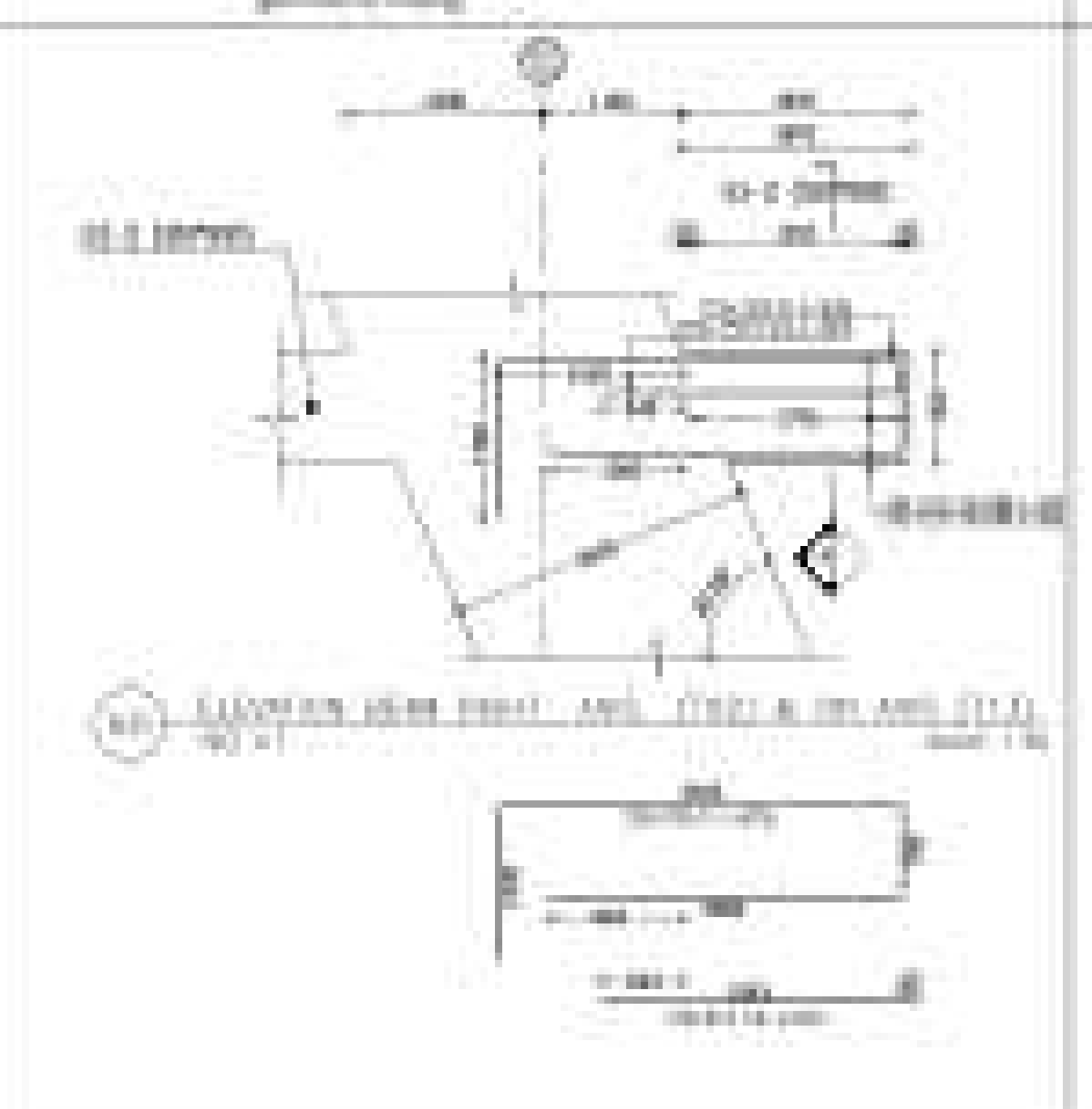
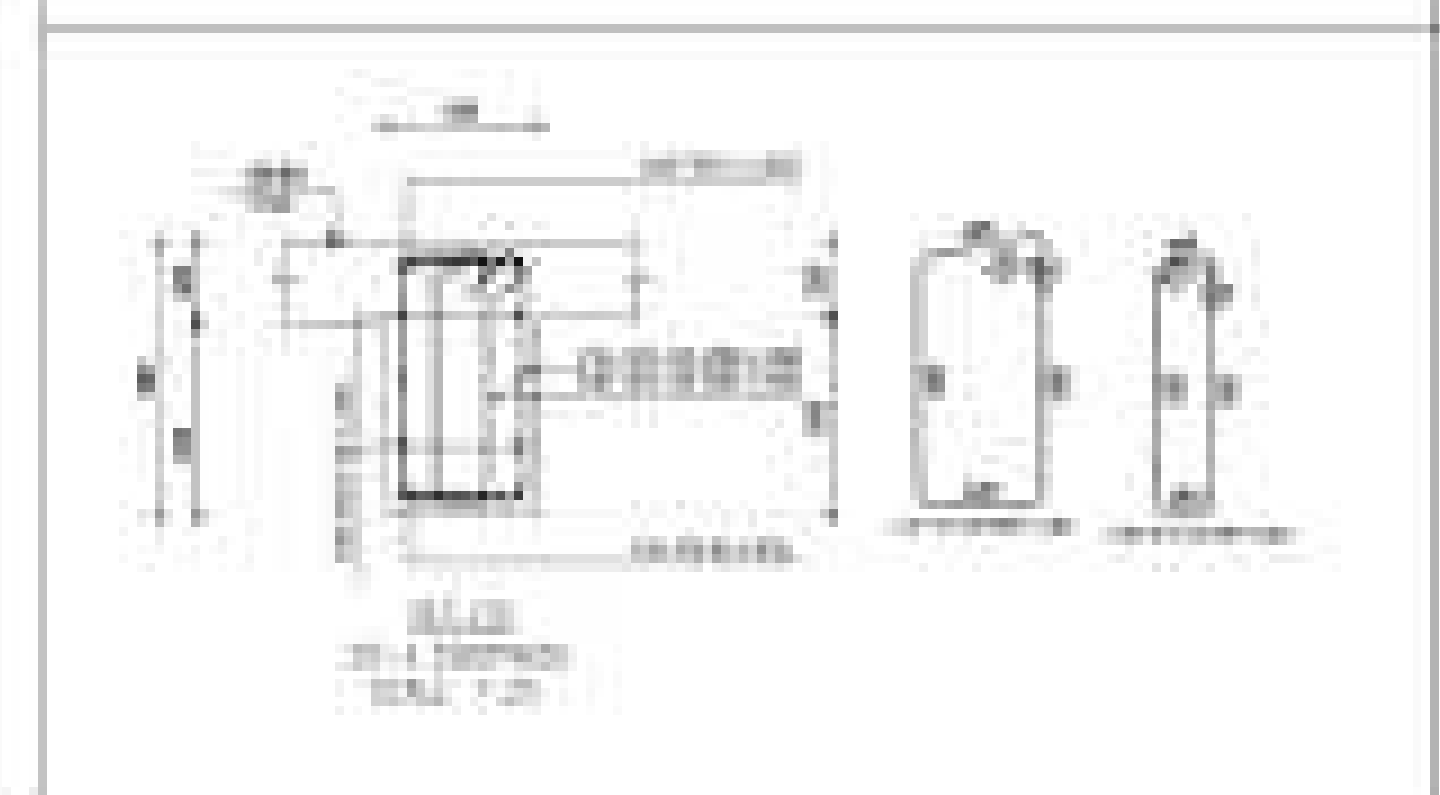
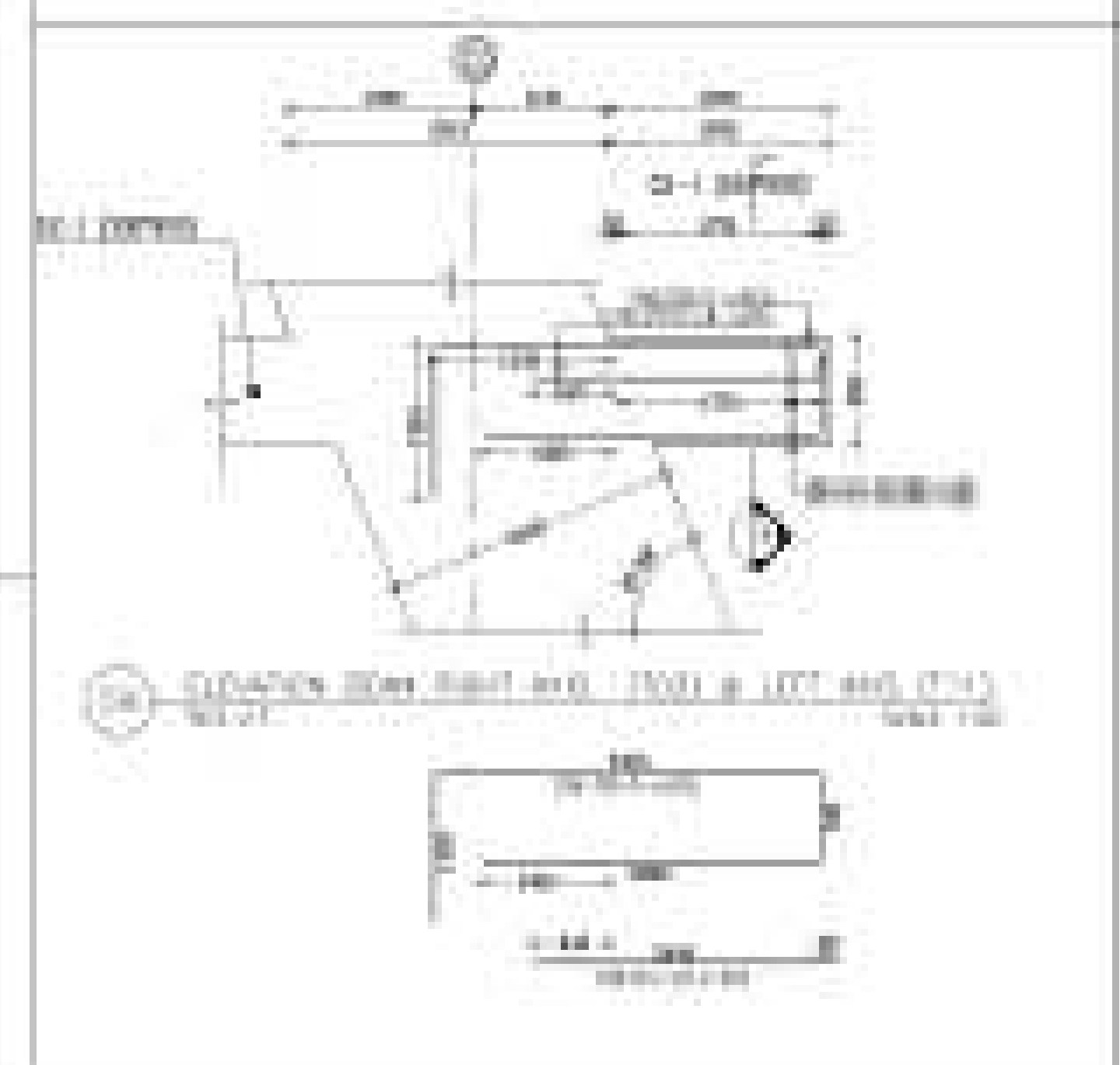
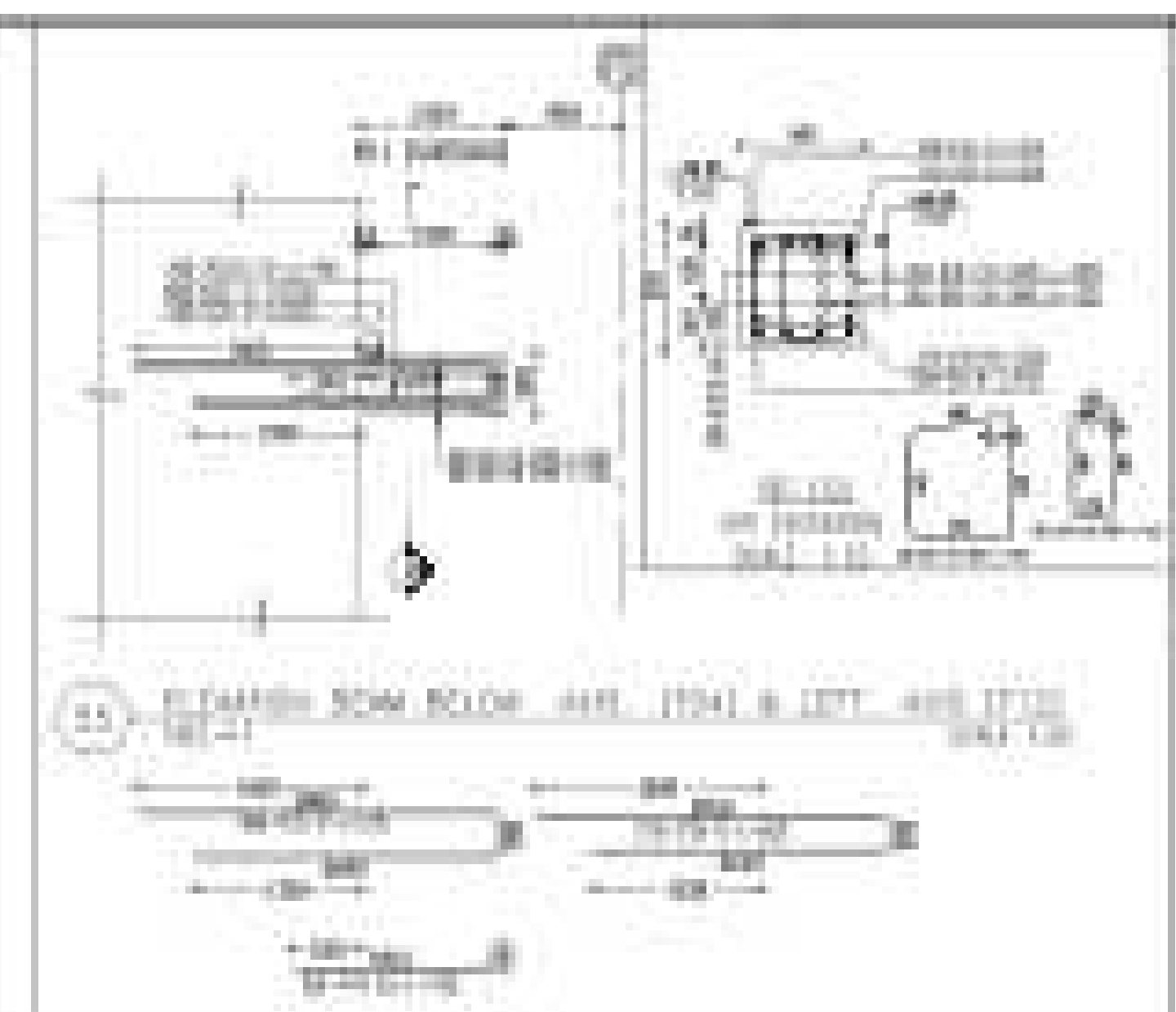
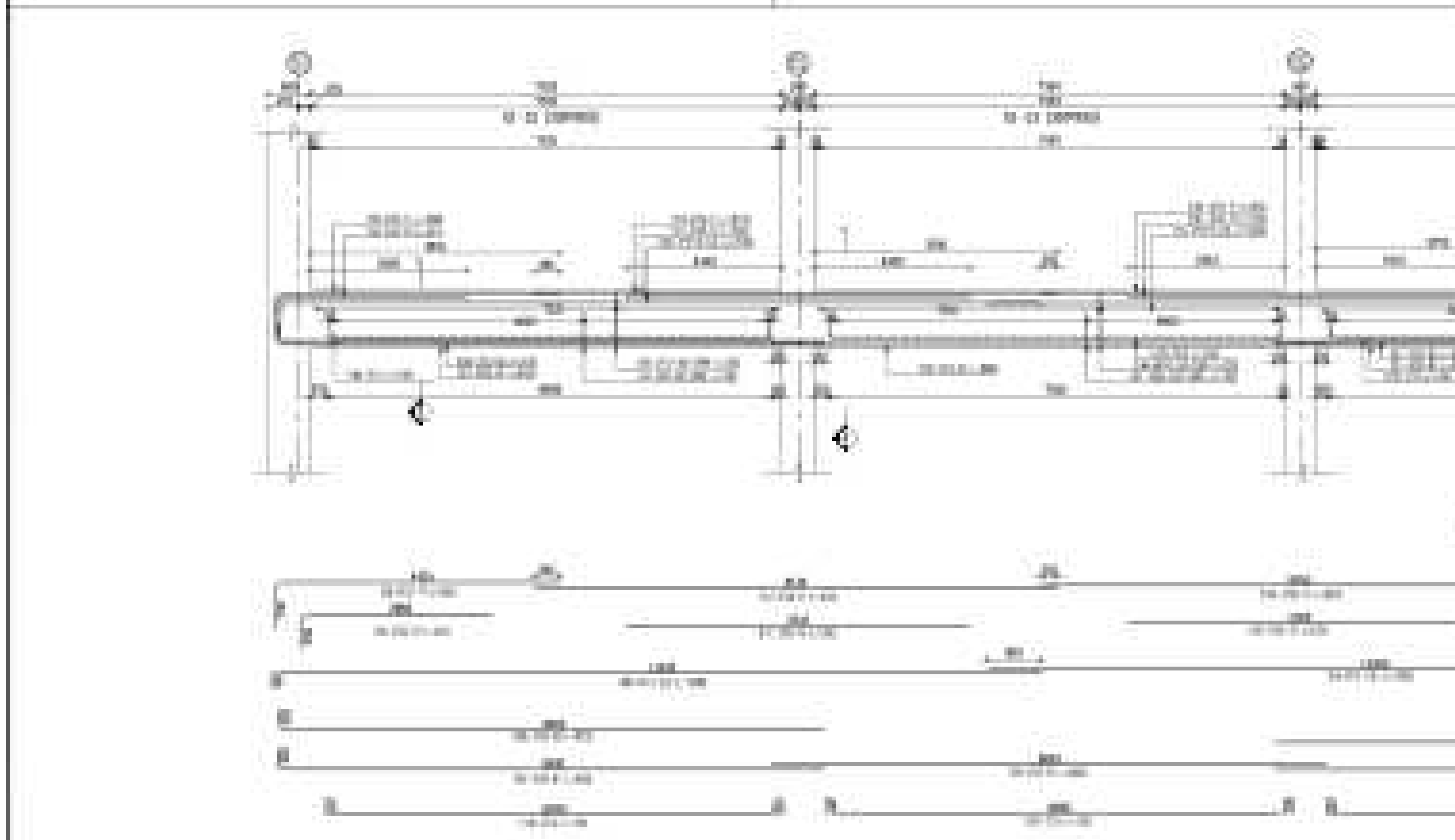
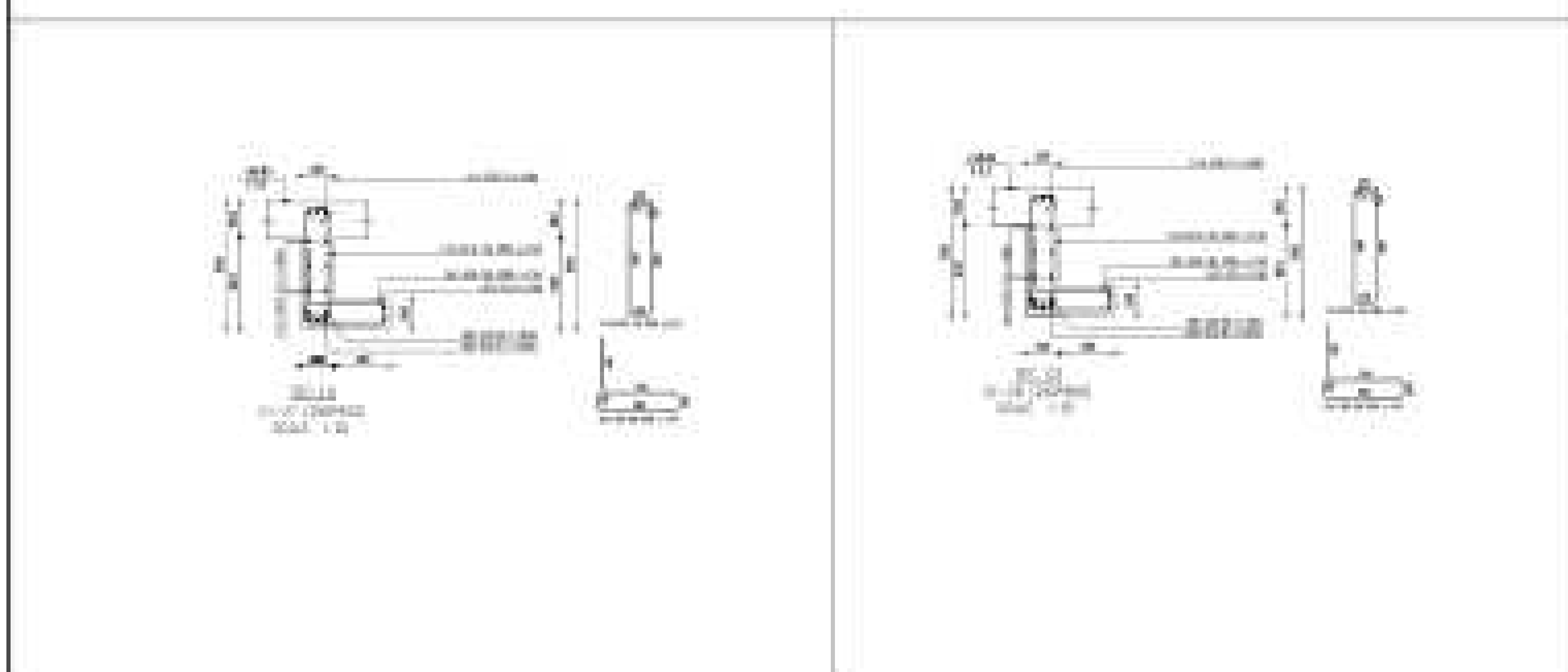
DRAWING TITLE

01/10 (SECTION 01.10)
01/11 (SECTION 01.11)
01/12 (SECTION 01.12)

01/10

01/11

01/12



Architectural drawing of a building section, showing a long horizontal structure with multiple levels and internal divisions. It includes dimensions and labels for various components.

Project Name:
Almaty Downtown Towers
阿拉木图市中心塔楼项目

Client:
Ministry of Housing, Utilities & Urban Communications
New Urban Communities Authority

Architect:
dar Dar-Hendesh (Group)
Shah & Partners

Consultant:
中國建築設計集團有限公司
CHINA ARCHITECTURAL GROUP CO., LTD.

Structural Table:

Item	Unit	Value
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1.2	mm	1000
1.3	mm	1000
1.4	mm	1000
1.5	mm	1000
1.6	mm	1000
1.7	mm	1000
1.8	mm	1000
1.9	mm	1000
1.10	mm	1000
1.11	mm	1000
1.12	mm	1000
1.13	mm	1000
1.14	mm	1000
1.15	mm	1000
1.16	mm	1000
1.17	mm	1000
1.18	mm	1000
1.19	mm	1000
1.20	mm	1000

Section Table:

Item	Unit	Value
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1.2	mm	1000
1.3	mm	1000
1.4	mm	1000
1.5	mm	1000
1.6	mm	1000
1.7	mm	1000
1.8	mm	1000
1.9	mm	1000
1.10	mm	1000
1.11	mm	1000
1.12	mm	1000
1.13	mm	1000
1.14	mm	1000
1.15	mm	1000
1.16	mm	1000
1.17	mm	1000
1.18	mm	1000
1.19	mm	1000
1.20	mm	1000

Remarks:
1. All dimensions are in millimeters (mm).
2. All dimensions are to be confirmed by the client.
3. All dimensions are to be confirmed by the client.

Scale:
1:1000

Sheet No.:
1/1

Project No.:
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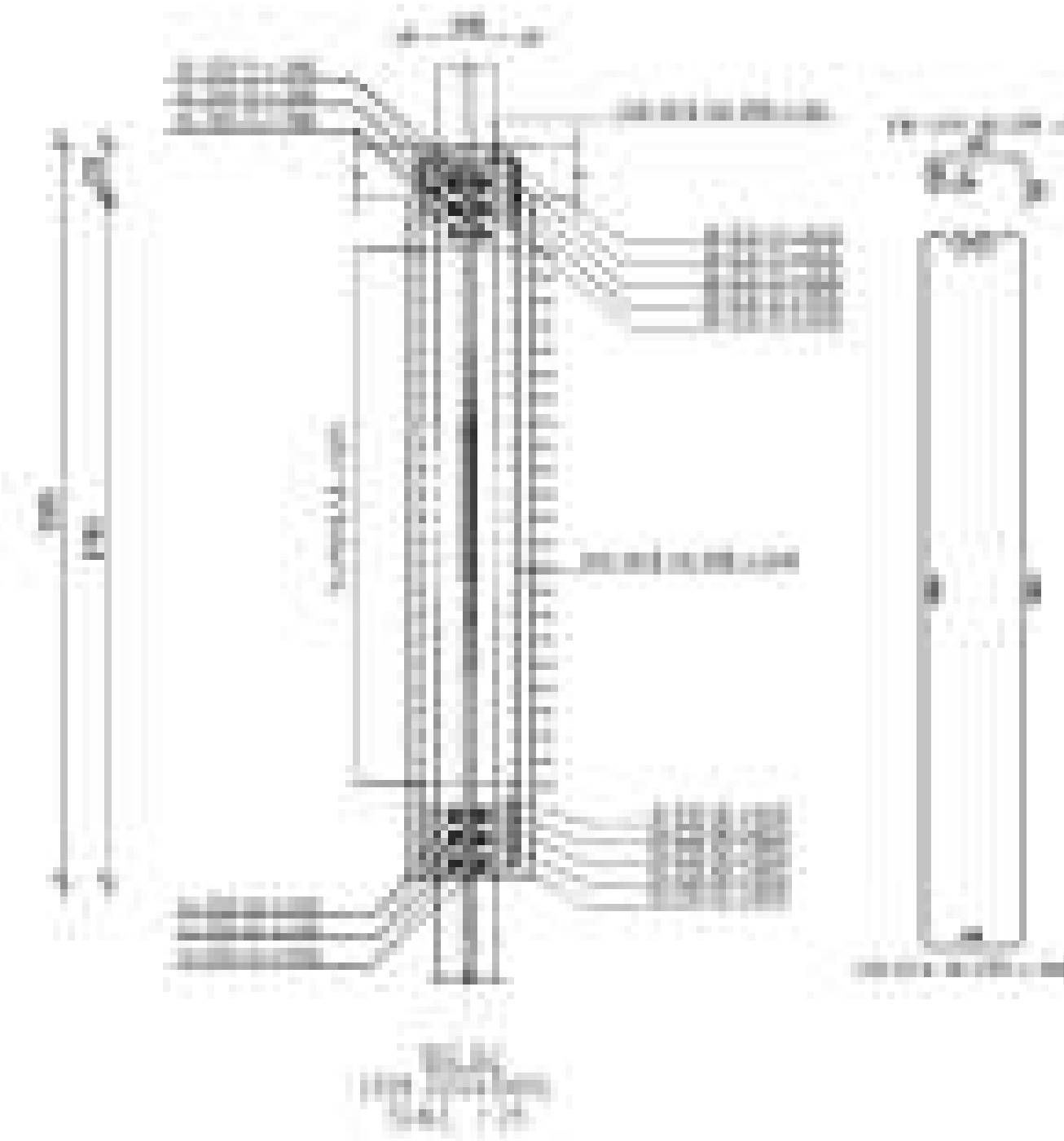
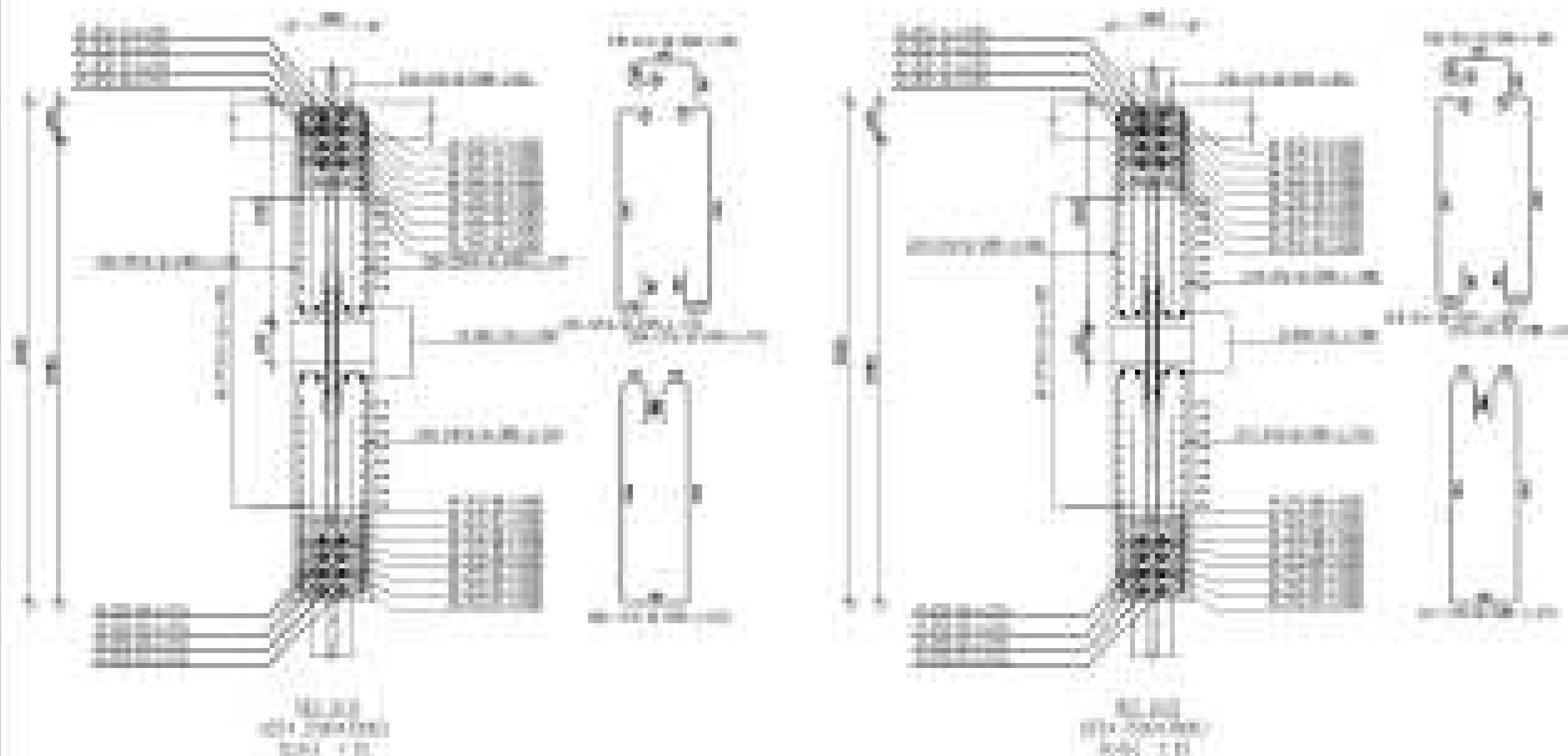
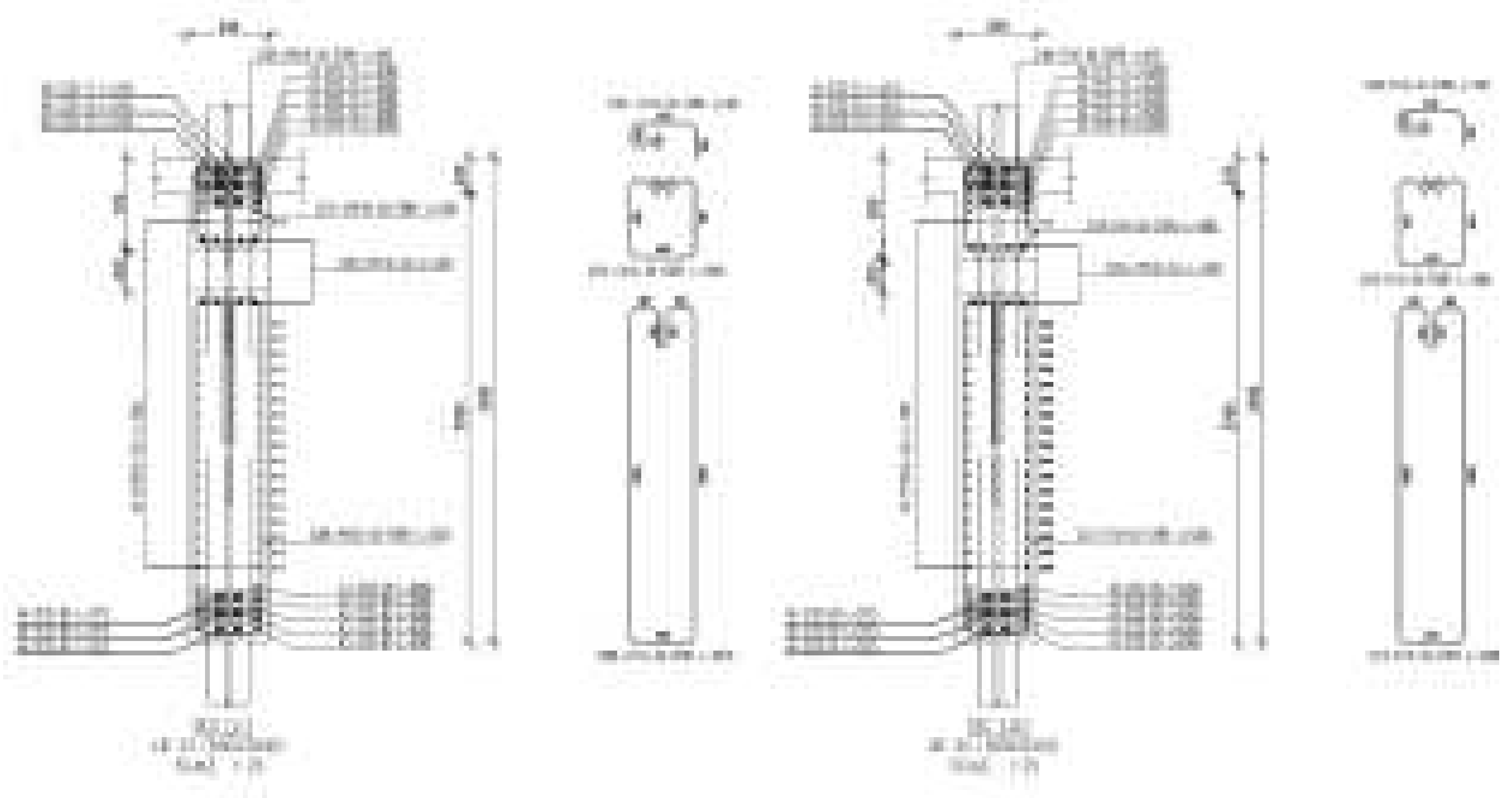
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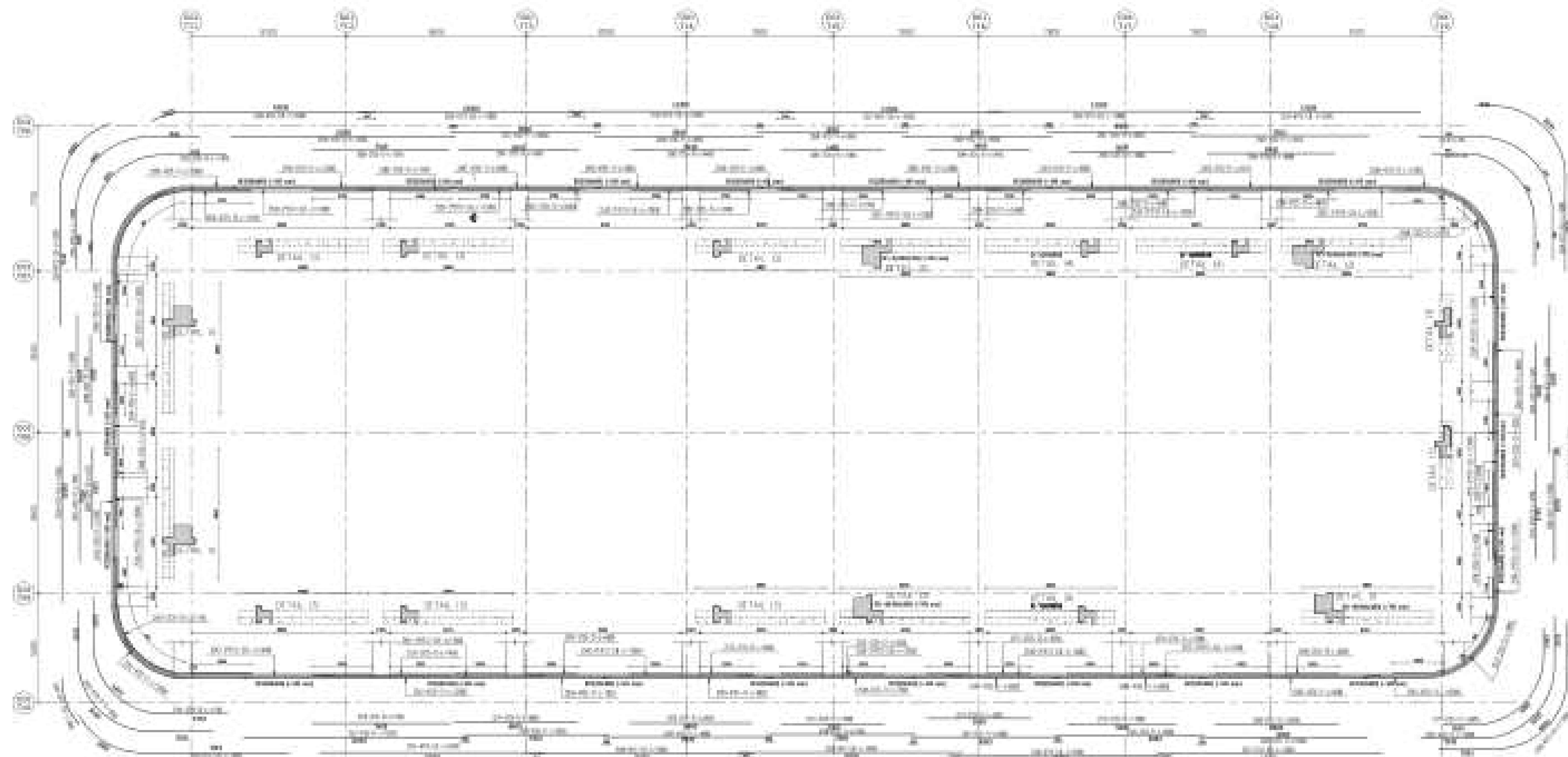
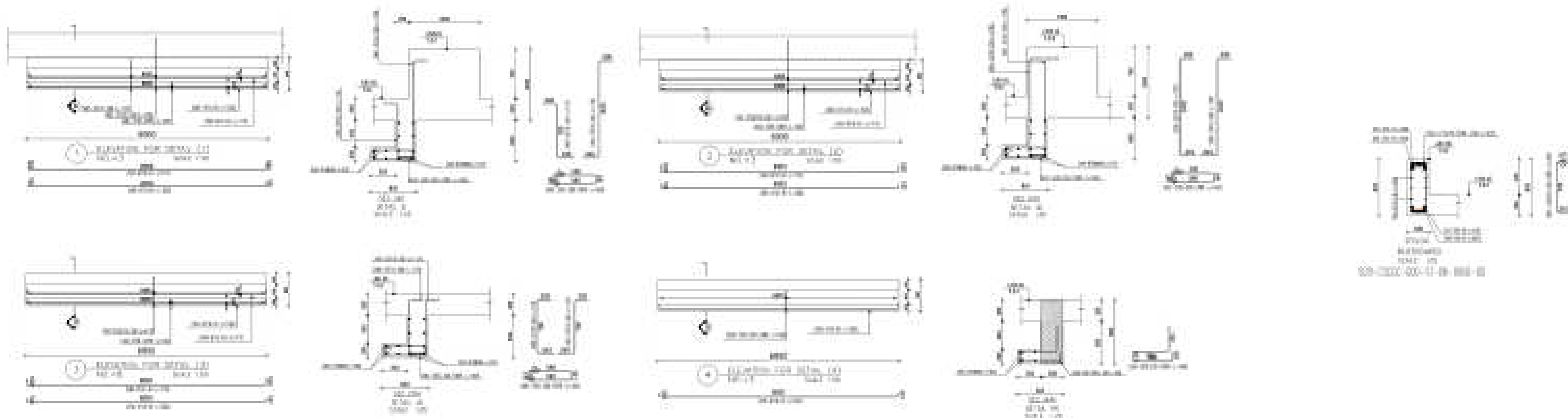
Author:
dar

Checker:
dar

Approver:
dar

Date:
2020-01-01





PROJECT NAME: Almain Downtown Towers
 PROJECT LOCATION: 1000 N. Dearborn Street, Chicago, IL 60610
 PROJECT TYPE: Commercial Office Building
 PROJECT SIZE: 1,000,000 sq. ft.
 PROJECT PHASE: Schematic Design
 PROJECT TEAM: Dar Group, LLC
 PROJECT START: 2010
 PROJECT END: 2012

ARCHITECT: Dar Group, LLC
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
 Fax: 312.467.1001
 Email: info@dar.com
 Website: www.dar.com

ENGINEER: [Redacted]
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
 Fax: 312.467.1001
 Email: info@dar.com
 Website: www.dar.com

CONTRACTOR: [Redacted]
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
 Fax: 312.467.1001
 Email: info@dar.com
 Website: www.dar.com

DATE: 10/10/12
 DRAWN BY: [Redacted]
 CHECKED BY: [Redacted]
 APPROVED BY: [Redacted]

PROJECT NAME: Almain Downtown Towers
 PROJECT LOCATION: 1000 N. Dearborn Street, Chicago, IL 60610
 PROJECT TYPE: Commercial Office Building
 PROJECT SIZE: 1,000,000 sq. ft.
 PROJECT PHASE: Schematic Design
 PROJECT TEAM: Dar Group, LLC
 PROJECT START: 2010
 PROJECT END: 2012

ARCHITECT: Dar Group, LLC
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
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 Email: info@dar.com
 Website: www.dar.com

DATE: 10/10/12
 DRAWN BY: [Redacted]
 CHECKED BY: [Redacted]
 APPROVED BY: [Redacted]

PROJECT NAME: Almain Downtown Towers
 PROJECT LOCATION: 1000 N. Dearborn Street, Chicago, IL 60610
 PROJECT TYPE: Commercial Office Building
 PROJECT SIZE: 1,000,000 sq. ft.
 PROJECT PHASE: Schematic Design
 PROJECT TEAM: Dar Group, LLC
 PROJECT START: 2010
 PROJECT END: 2012

ARCHITECT: Dar Group, LLC
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
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ENGINEER: [Redacted]
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
 Fax: 312.467.1001
 Email: info@dar.com
 Website: www.dar.com

CONTRACTOR: [Redacted]
 1000 N. Dearborn Street, Suite 1000
 Chicago, IL 60610
 Tel: 312.467.1000
 Fax: 312.467.1001
 Email: info@dar.com
 Website: www.dar.com

DATE: 10/10/12
 DRAWN BY: [Redacted]
 CHECKED BY: [Redacted]
 APPROVED BY: [Redacted]

