

Enabel - Belgian Development Agency



PUBLIC WORKS CONTRACT **for the Development of Semi-Public Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Funded by:



This Project is Funded by



Designed By:

31°47' Design
Studio, Jerusalem

February 2023

OUTDOOR-CAMPUS DEVELOPMENT AL-QUDS UNIVERSITY

Beit Hanina – Jerusalem

ARCHITECTURAL DRAWINGS

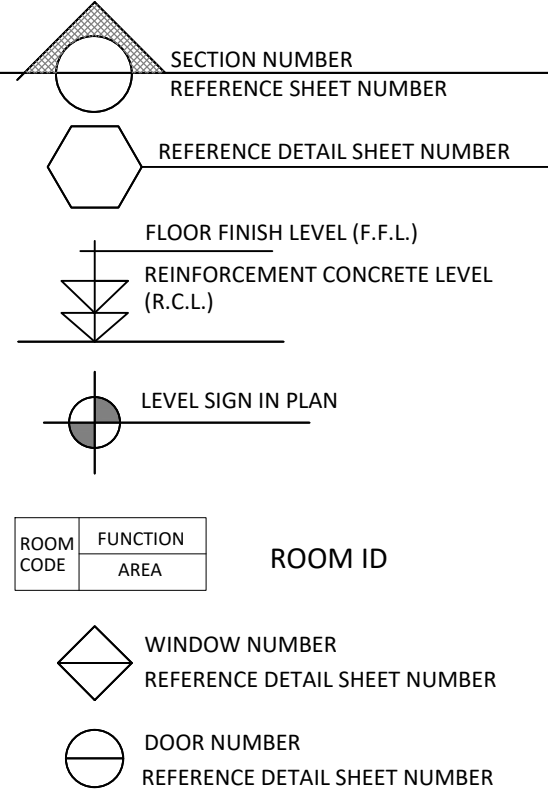
COVER

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A02	DEMOLITION PLAN
A03	DESIGN PLAN
A04	DIMENSION PLAN
A05	SECTION
A06	3D SHOTS
A07	3D SHOTS
A08	3D SHOTS
A09	3D SHOTS

Notes

- (1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



	ASPHALT
	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
	TERRAZZO TILE
	LOCAL MARBLE
	Interlock
	Water Cooler
	R.C.L.-REN. CONCRETE LEVEL
	F.F.L.-FINISH FLOOR LEVEL
	S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

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EUROPEAN UNION

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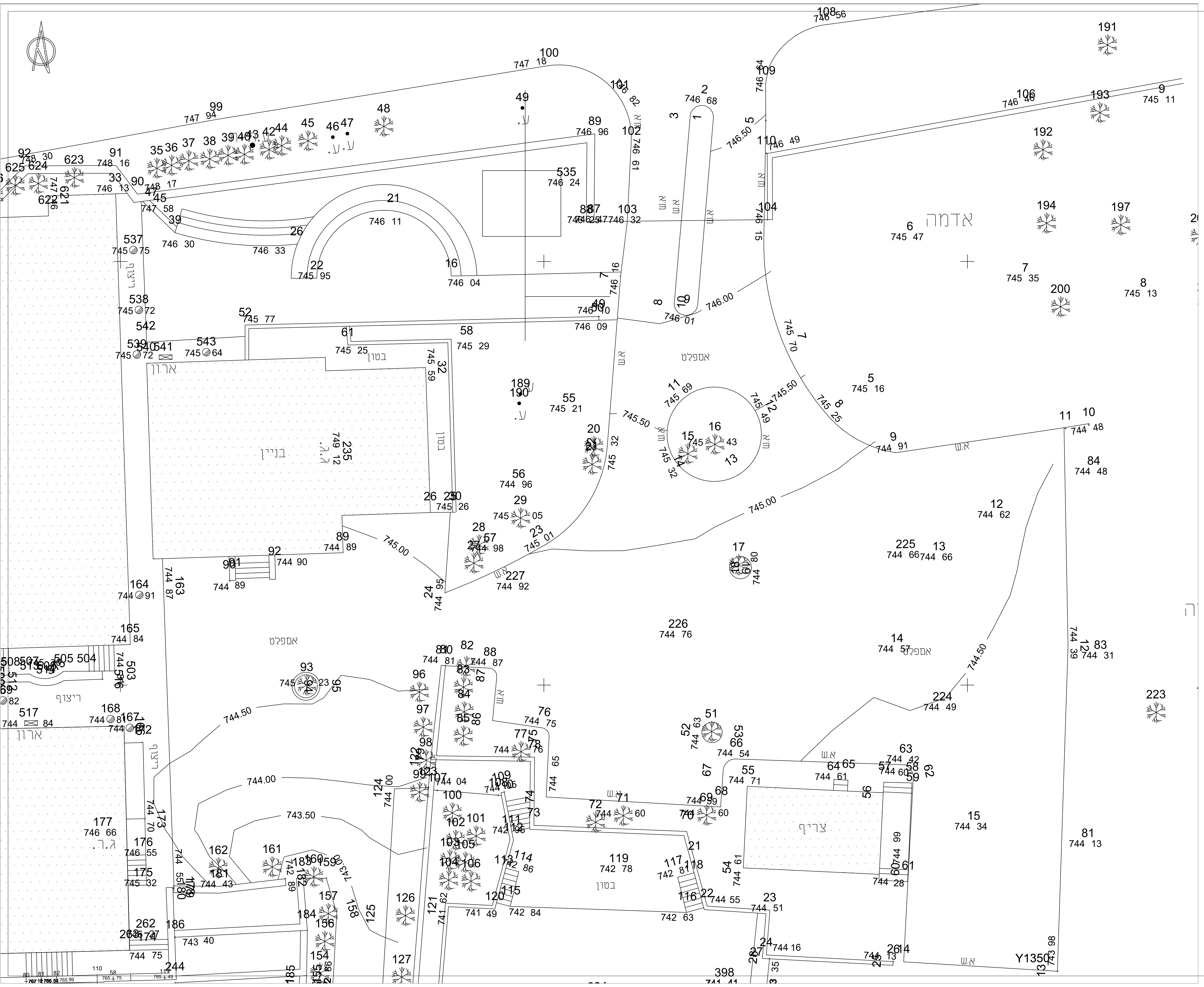
Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address
email

Tel.
Fax:

Sheet Name:	TABLE OF CONSTANTS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Drawing No:
Checked by:	Ibrahim Alhindi	G00
Approved by:		
Coordinate Manager:		



Notes

(1) All Dimensions Are In Cm.
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Legend:

SECTION NUMBER
REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)
REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE FUNCTION AREA ROOM ID

WINDOW NUMBER
REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER
REFERENCE DETAIL SHEET NUMBER

ASPHALT
RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS
CONCRETE
STONE WALL
HOLLOW BLOCKS
CEMENT TILE
TERRAZZO TILE
LOCAL MARBLE
Interlock

Water Cooler
R.C.L.:REN. CONCRETE LEVEL
F.F.L.:FINISH FLOOR LEVEL
S.L. : SEA LEVEL

REVISIONS		
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Belgium
partner in development

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Designed by:

M.Arch. Ibrahim Alhindi
3147 Design Studio

Address email Tel. Fax:

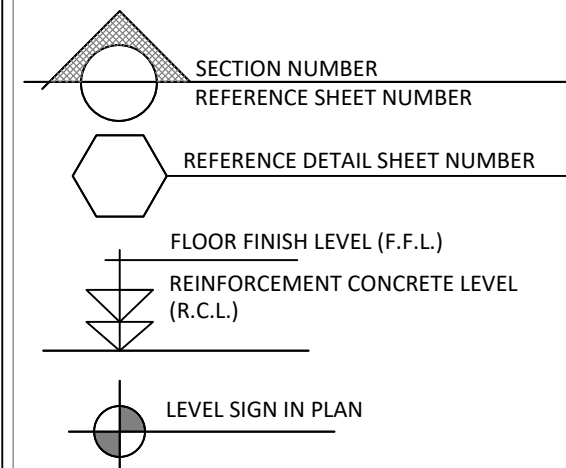
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Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A01
Approved by:		
Coordinate Manager:		



Notes

- (1) All Dimensions Are In Cm.
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Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
◇	WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER	
○	DOOR NUMBER REFERENCE DETAIL SHEET NUMBER	

ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	Water Cooler
TERRAZZO TILE	R.C.L.:REN. CONCRETE LEVEL
LOCAL MARBLE	F.F.L.:FINISH FLOOR LEVEL
Interlock	S.L.: SEA LEVEL

REVISIONS		
NO.	ASPHALT	DATE
(1)	RC CONCRETE FOR COLUMNS	
(2)	RC CONCRETE FOR WALLS	

Contracting Authority:



Funded By:



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Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address email Tel. Fax:

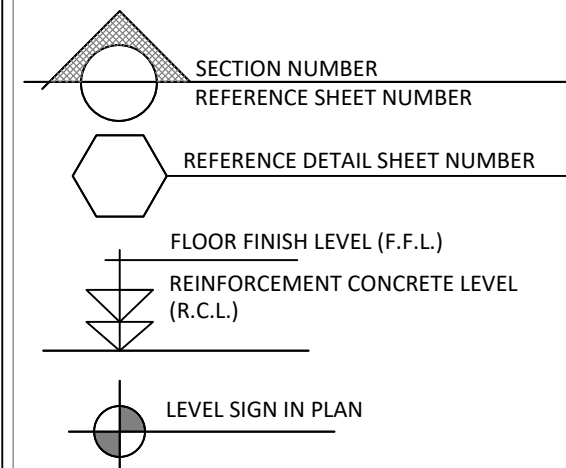
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Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No:
Approved by:		A03
Coordinate Manager:		



Notes

- (1) All Dimensions Are In Cm.
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Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
◇	WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER	
○	DOOR NUMBER REFERENCE DETAIL SHEET NUMBER	

ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	TERRAZZO TILE
LOCAL MARBLE	Interlock
Water Cooler	R.C.L.:REN. CONCRETE LEVEL
F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL

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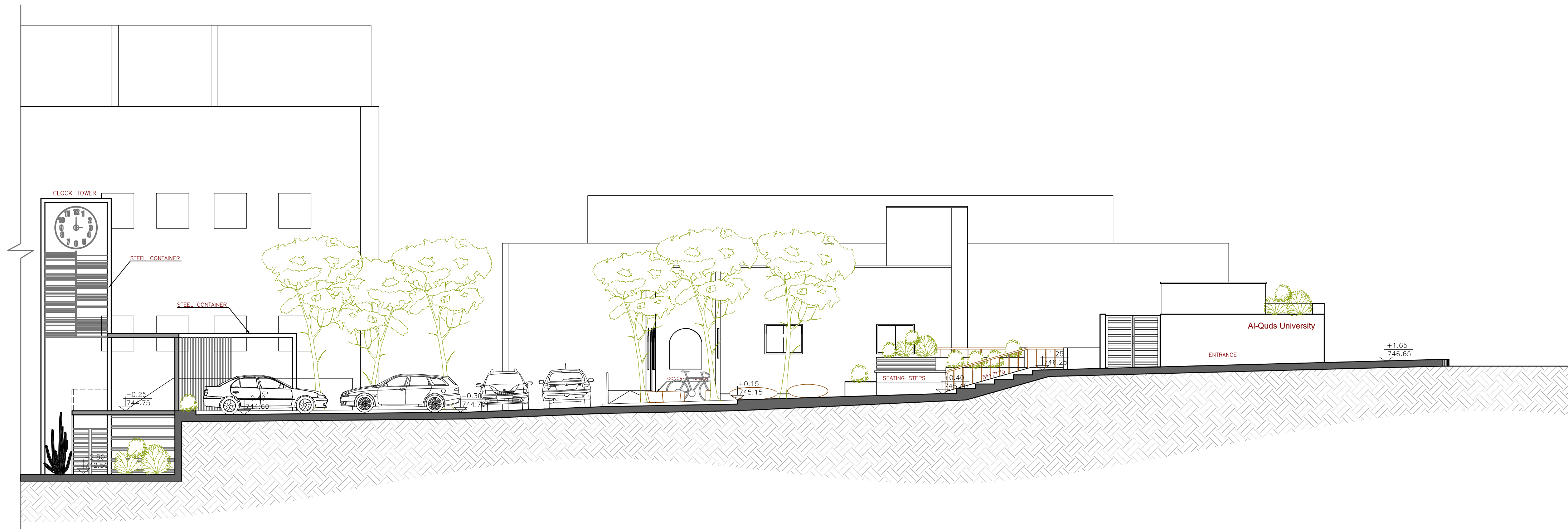
Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address
email

Tel.
Fax:

Sheet Name:	DIMENSION PLAN	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A04
Approved by:		
Coordinate Manager:		

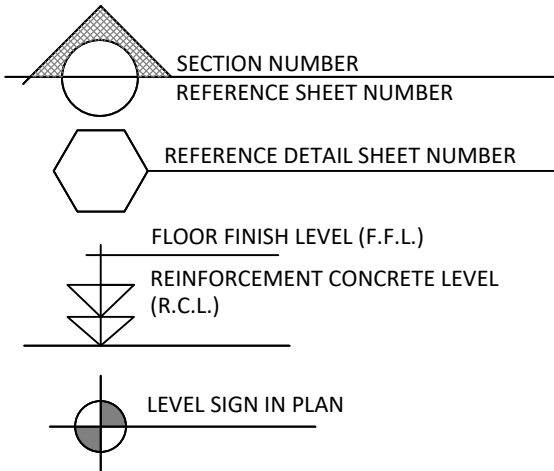


SECTION A-A

Notes

- (1) All Dimensions Are In Cm.
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Legend:



ROOM CODE	FUNCTION AREA	ROOM ID

	ASPHALT
	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
	TERRAZZO TILE
	LOCAL MARBLE
	Interlock
	Water Cooler
	R.C.L.:REN. CONCRETE LEVEL
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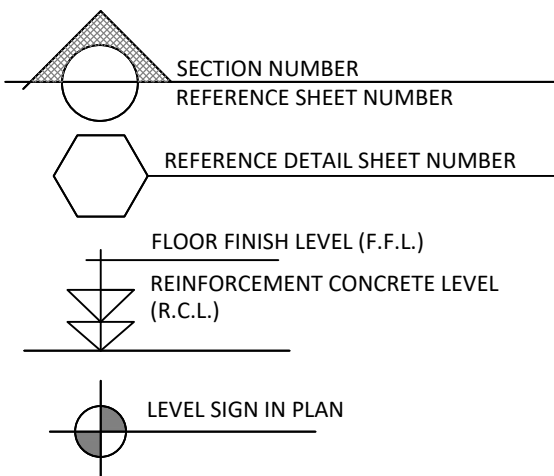
Sheet Name:	SECTION	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A05
Approved by:		
Coordinate Manager:		



Notes

- (1) All Dimensions Are In Cm.
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Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
◇	WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER	
○	DOOR NUMBER REFERENCE DETAIL SHEET NUMBER	

ASPHALT	RC CONCRETE FOR COLUMNS	RC CONCRETE FOR WALLS	CONCRETE	STONE WALL	HOLLOW BLOCKS	CEMENT TILE	TERRAZZO TILE	LOCAL MARBLE	Interlock	Water Cooler	R.C.L.:REN. CONCRETE LEVEL	F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL
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Fax:

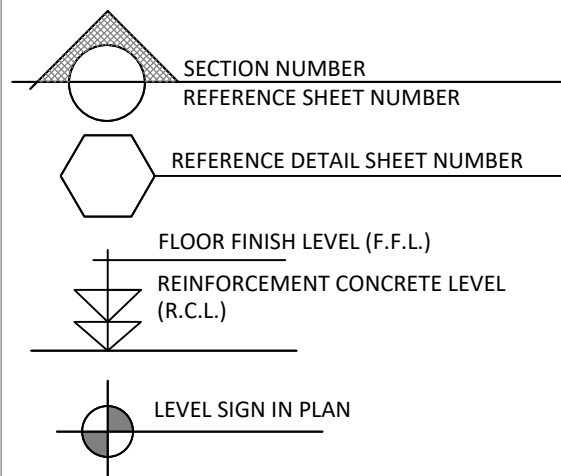
Sheet Name:	3D SHOTS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A06
Approved by:		
Coordinate Manager:		



Notes

- (1) All Dimensions Are In Cm.
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Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
◇	WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER	
○	DOOR NUMBER REFERENCE DETAIL SHEET NUMBER	

ASPHALT	RC CONCRETE FOR COLUMNS	RC CONCRETE FOR WALLS	CONCRETE	STONE WALL	HOLLOW BLOCKS	CEMENT TILE	TERRAZZO TILE	LOCAL MARBLE	Interlock	Water Cooler	R.C.L.:REN. CONCRETE LEVEL	F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL
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Address
email

Tel.
Fax:

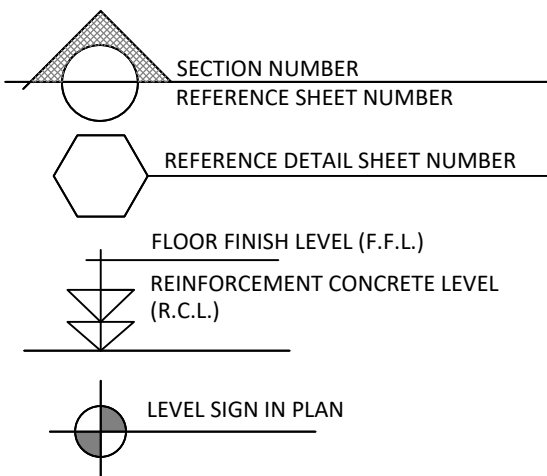
Sheet Name:	3D SHOTS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A07
Approved by:		
Coordinate Manager:		



Notes

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Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
◇	WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER	
○	DOOR NUMBER REFERENCE DETAIL SHEET NUMBER	

ASPHALT	RC CONCRETE FOR COLUMNS	RC CONCRETE FOR WALLS	CONCRETE	STONE WALL	HOLLOW BLOCKS	CEMENT TILE	TERRAZZO TILE	LOCAL MARBLE	Interlock	Water Cooler	R.C.L.-REN. CONCRETE LEVEL	F.F.L.-FINISH FLOOR LEVEL	S.L. : SEA LEVEL
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**M.Arch. Ibrahim Alhindi
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Address email Tel. Fax:

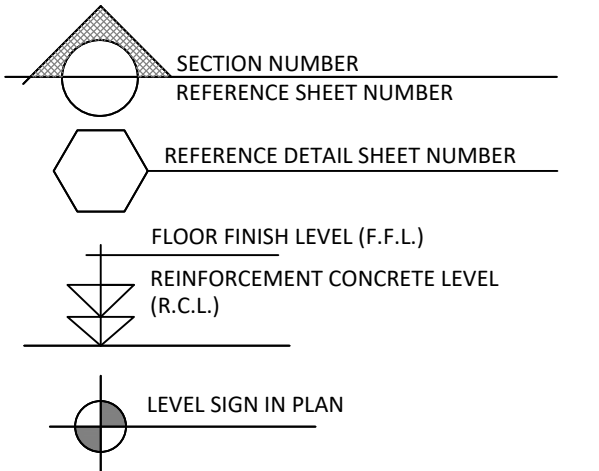
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Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A08
Approved by:		
Coordinate Manager:		



Notes

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ROOM CODE	FUNCTION AREA	ROOM ID
◇	WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER	
○	DOOR NUMBER REFERENCE DETAIL SHEET NUMBER	

ASPHALT	RC CONCRETE FOR COLUMNS	RC CONCRETE FOR WALLS	CONCRETE	STONE WALL	HOLLOW BLOCKS	CEMENT TILE	TERRAZZO TILE	LOCAL MARBLE	Interlock	Water Cooler	R.C.L.:REN. CONCRETE LEVEL	F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL
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Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address email Tel. Fax:

Sheet Name:	3D SHOTS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: A09
Approved by:		
Coordinate Manager:		

OUTDOOR-CAMPUS DEVELOPMENT

AL-QUDS UNIVERSITY

Beit Hanina–Jerusalem

ELECTRICAL & MECHANICAL DRAWINGS

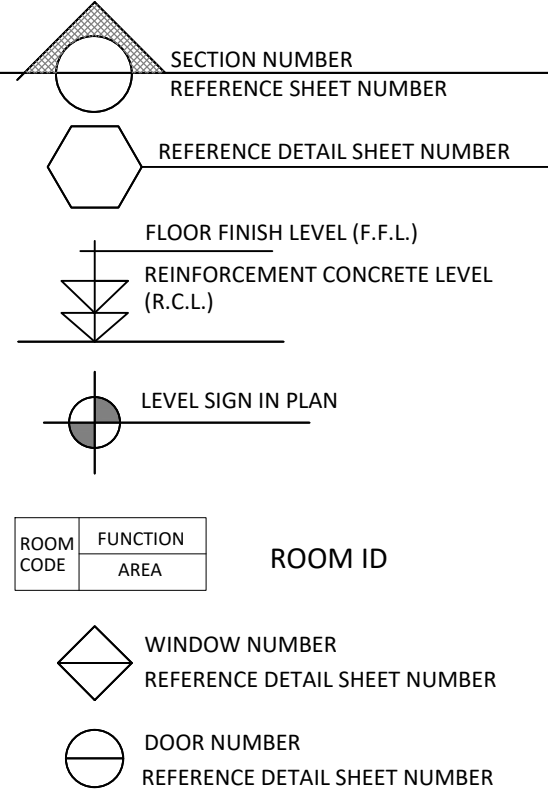
COVER

G00	TABLE OF CONTENTS
E01	LIGHTING SYSTEM
E02	POWER SYSTEM
E03	ELECTRICAL DETAILS
E04	ELECTRICAL PANEL DETAILS

Notes

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	ASPHALT
	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
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	Water Cooler
	R.C.L.:REN. CONCRETE LEVEL
	F.F.L.:FINISH FLOOR LEVEL
	S.L. : SEA LEVEL

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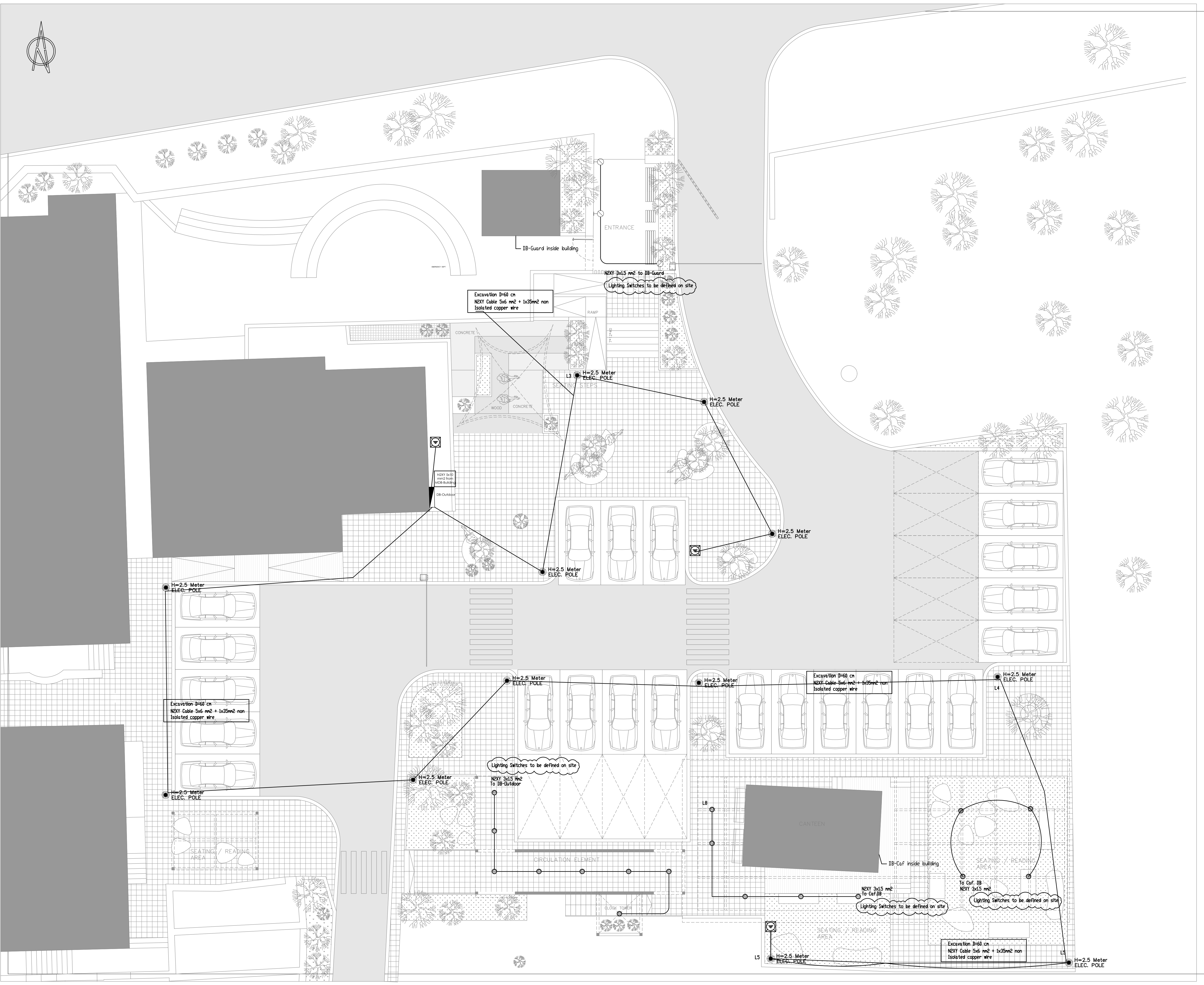
Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address
email

Tel.
Fax:

Sheet Name:	TABLE OF CONSTANTS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Drawing No:
Checked by:	Ibrahim Alhindi	G00
Approved by:		
Coordinate Manager:		



Notes

- (1) All Dimensions Are In Cm.
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SYMBOL	DESCRIPTION
	DISTRIBUTION BOARD
	3 PIN SOCKET OUTLET / W.P.
	3 PIN SOCKET OUTLET / W.P.
	OUTDOOR LIGHT POLE
	WALL MOUNTED LIGHTING FIXTURE FOR INTERNAL/EXTERNAL USE
	FLOOR FINISH LEVEL (F.F.L.)
	REINFORCEMENT CONCRETE LEVEL (R.C.L.)
	LEVEL SIGN IN PLAN

ROOM CODE	FUNCTION AREA	ROOM ID
	WINDOW NUMBER	REFERENCE DETAIL SHEET NUMBER
	DOOR NUMBER	REFERENCE DETAIL SHEET NUMBER
	ASPHALT	
	RC CONCRETE FOR COLUMNS	
	RC CONCRETE FOR WALLS	
	CONCRETE	
	STONE WALL	
	HOLLOW BLOCKS	
	CEMENT TILE	
	TERRAZZO TILE	
	LOCAL MARBLE	
	Interlock	
	Water Cooler	
	R.C.L.:REN. CONCRETE LEVEL	
	F.F.L.:FINISH FLOOR LEVEL	
	S.L. : SEA LEVEL	

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Reference No.: PZA170421T-10029

Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address: email
Tel.: Fax:

Sheet Name:	LIGHTING SYSTEM	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: E01
Approved by:		
Coordinate Manager:		



Notes

(1) All Dimensions Are In Cm.
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Legend

AREA 3 PIN SOCKET OUTLET / W.P.

16A 3 PIN SOCKET OUTLET / W.P.

OUTDOOR LIGHT POLE

WALL MOUNTED LIGHTING FIXTURE FOR INTERNAL/EXTERNAL USE

FLOOR FINISH LEVEL (F.F.L.)

120 CM REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION AREA

ROOM ID

◇ WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

○ DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L.:REN. CONCRETE LEVEL

F.F.L.:FINISH FLOOR LEVEL

S.L. : SEA LEVEL

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Designed by:

M.Arch. Ibrahim Alhindi

3147 Design Studio

Address email

Tel. Fax:

Sheet Name:

POWER SYSTEM

Date: Feb 2023

Scale: 1:100

Designed by:

Ibrahim Alhindi

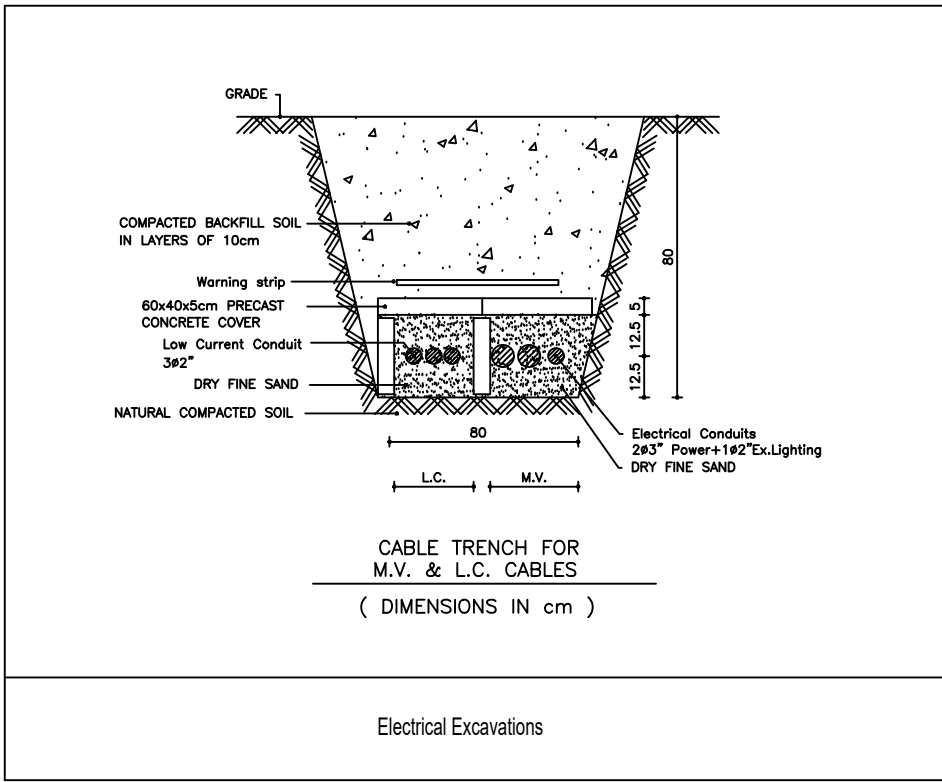
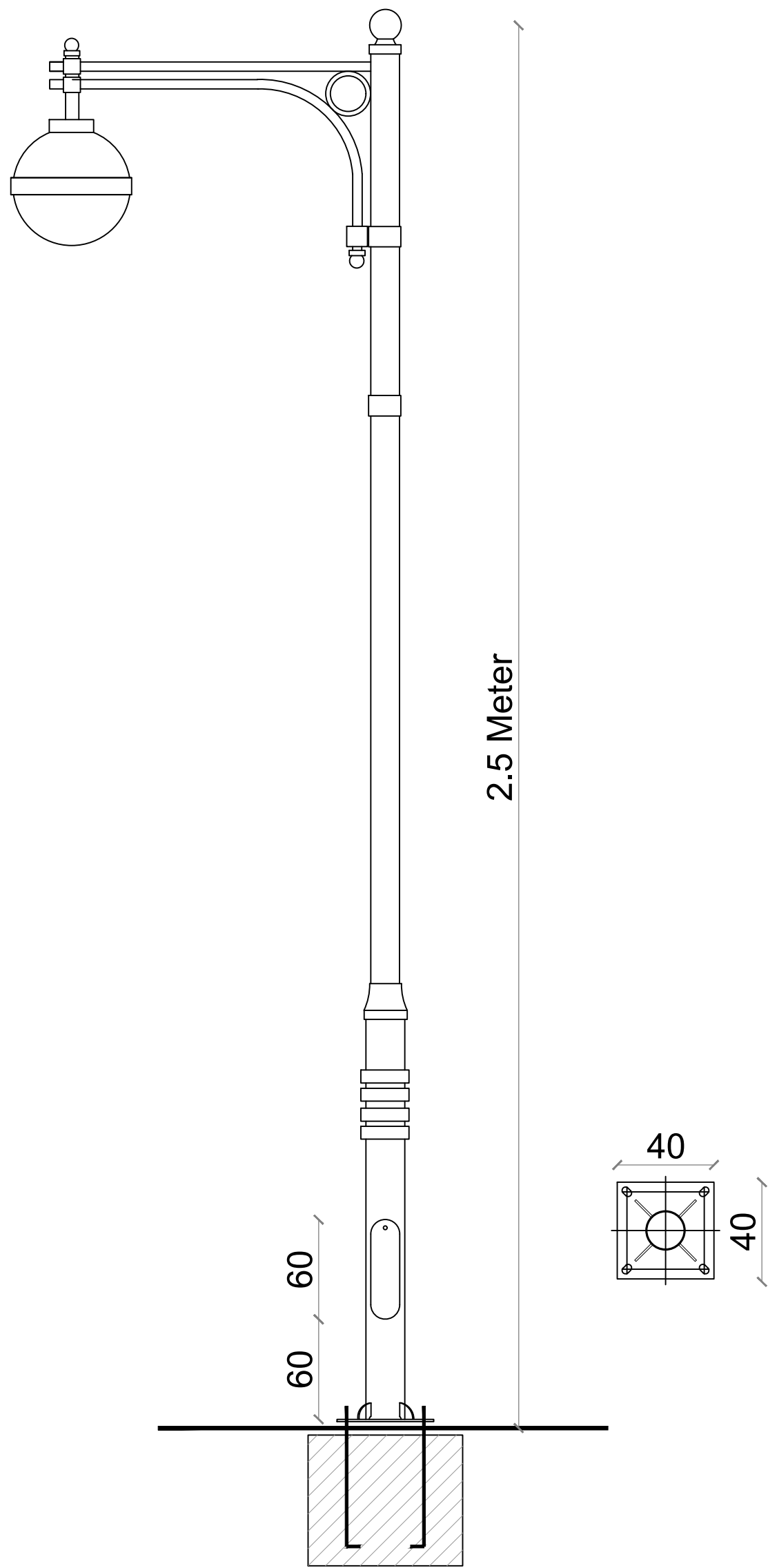
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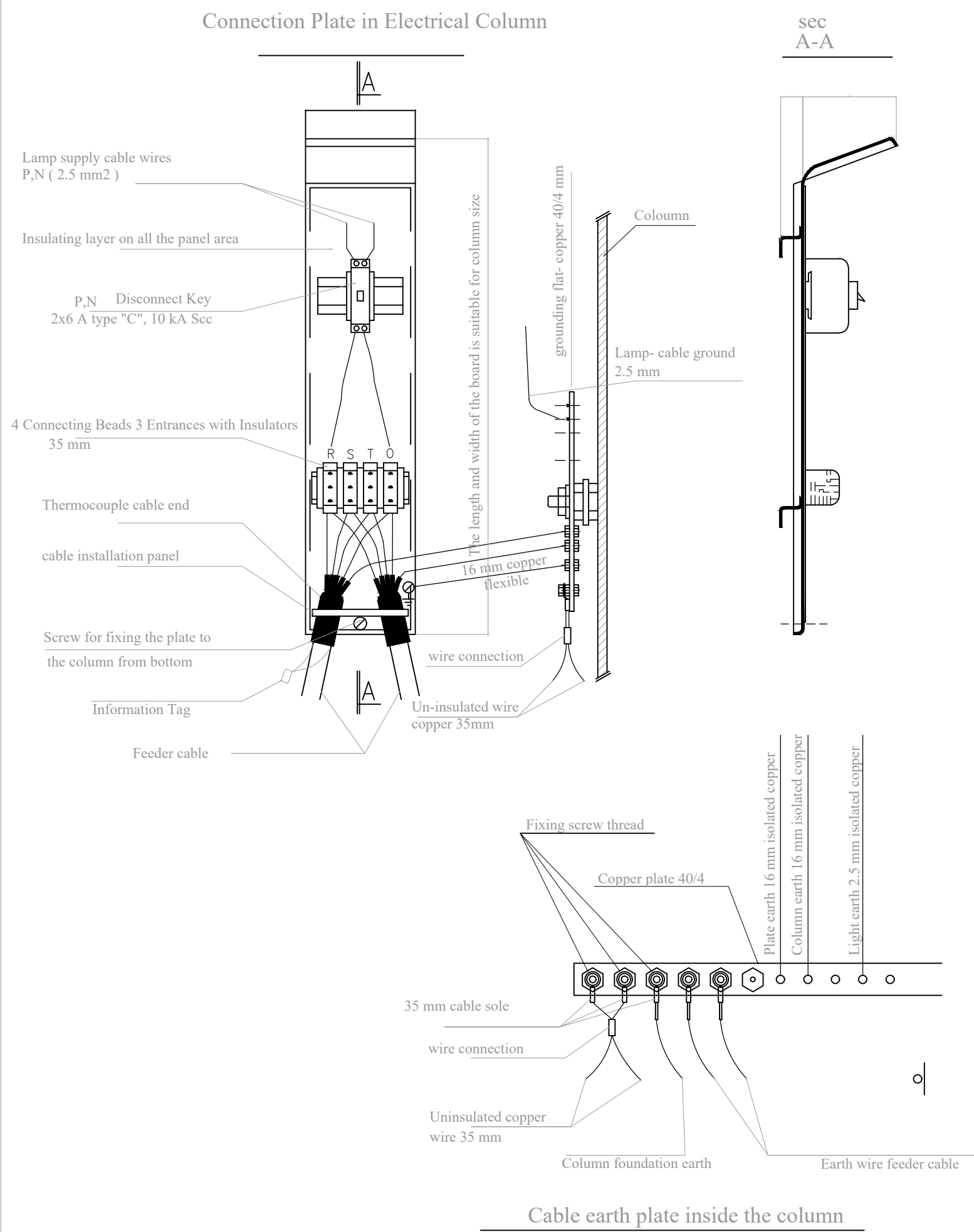
Ibrahim Alhindi

Approved by:

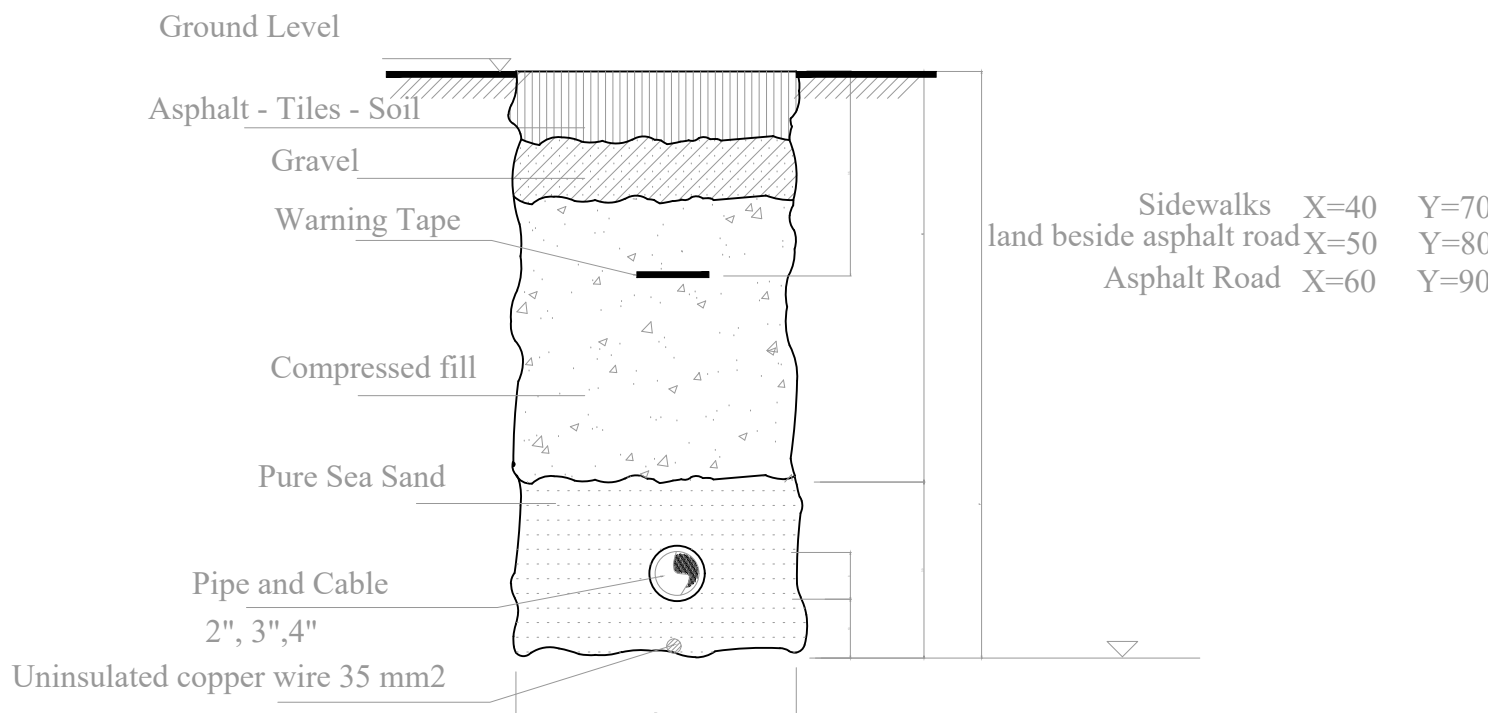
Coordinate Manager:



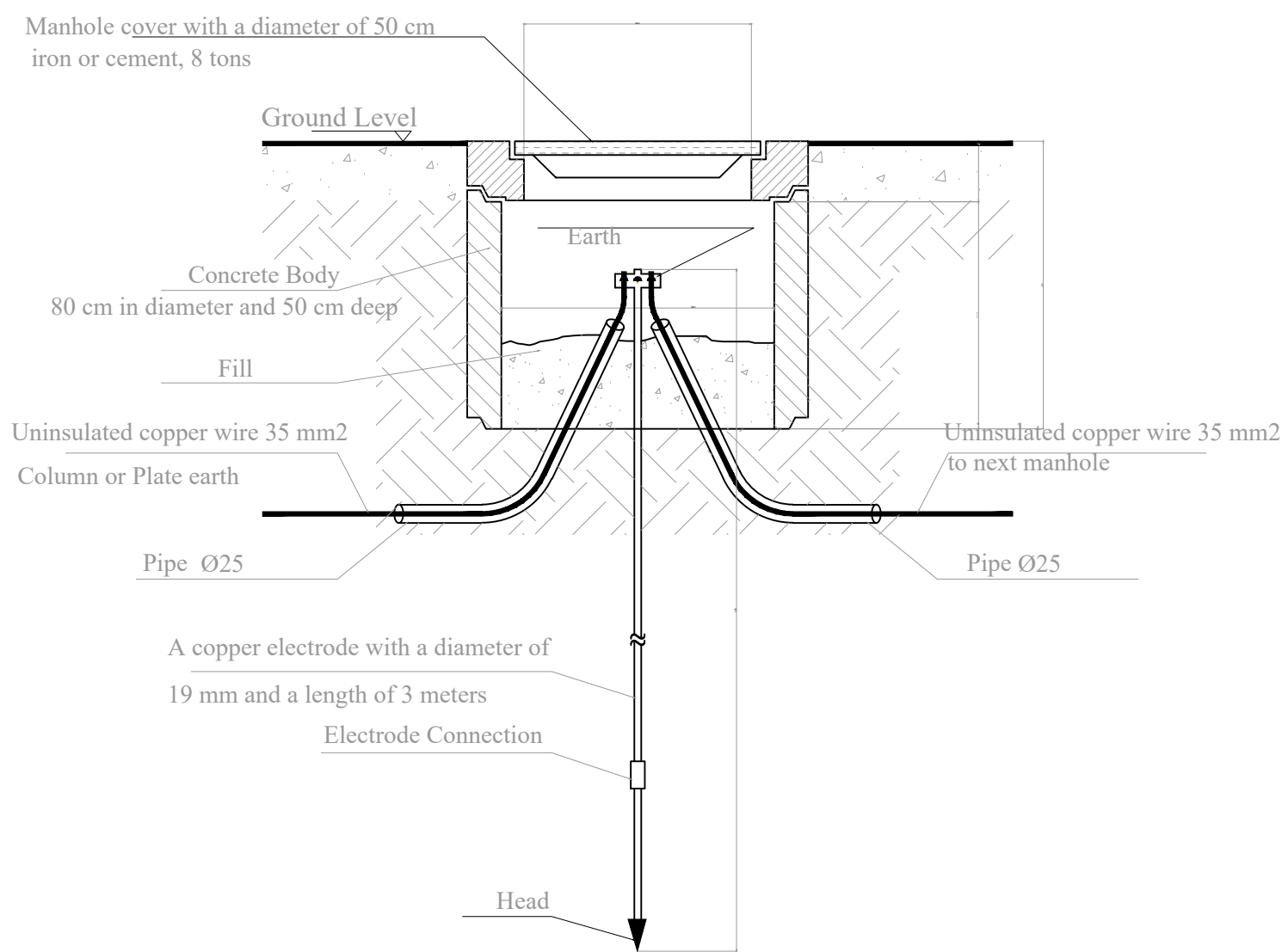
Connecting Plate Details Inside the Column Service Box 1:5



Standard section for lighting excavation on a street, pedestrian walkway, or roadside 1:10



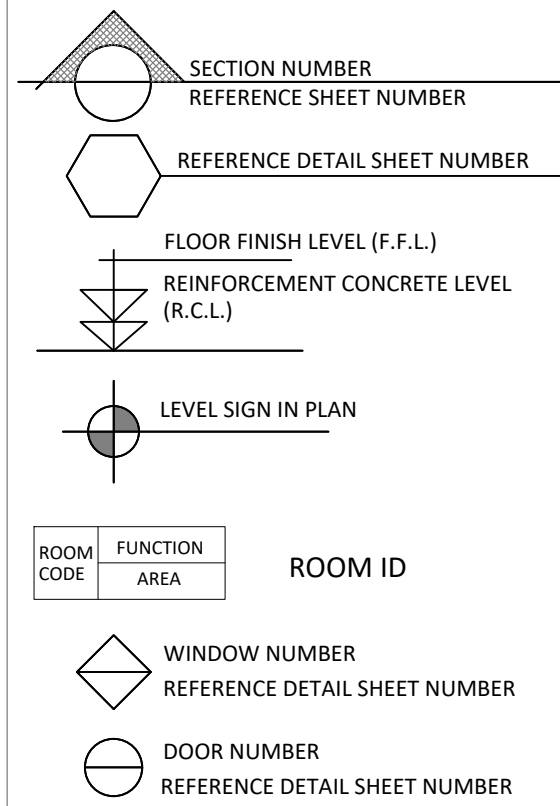
Earthling Manhole Ø60 cm



Notes

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Legend:



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	Water Cooler
TERRAZZO TILE	R.C.L.:REN. CONCRETE LEVEL
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Interlock	S.L. : SEA LEVEL

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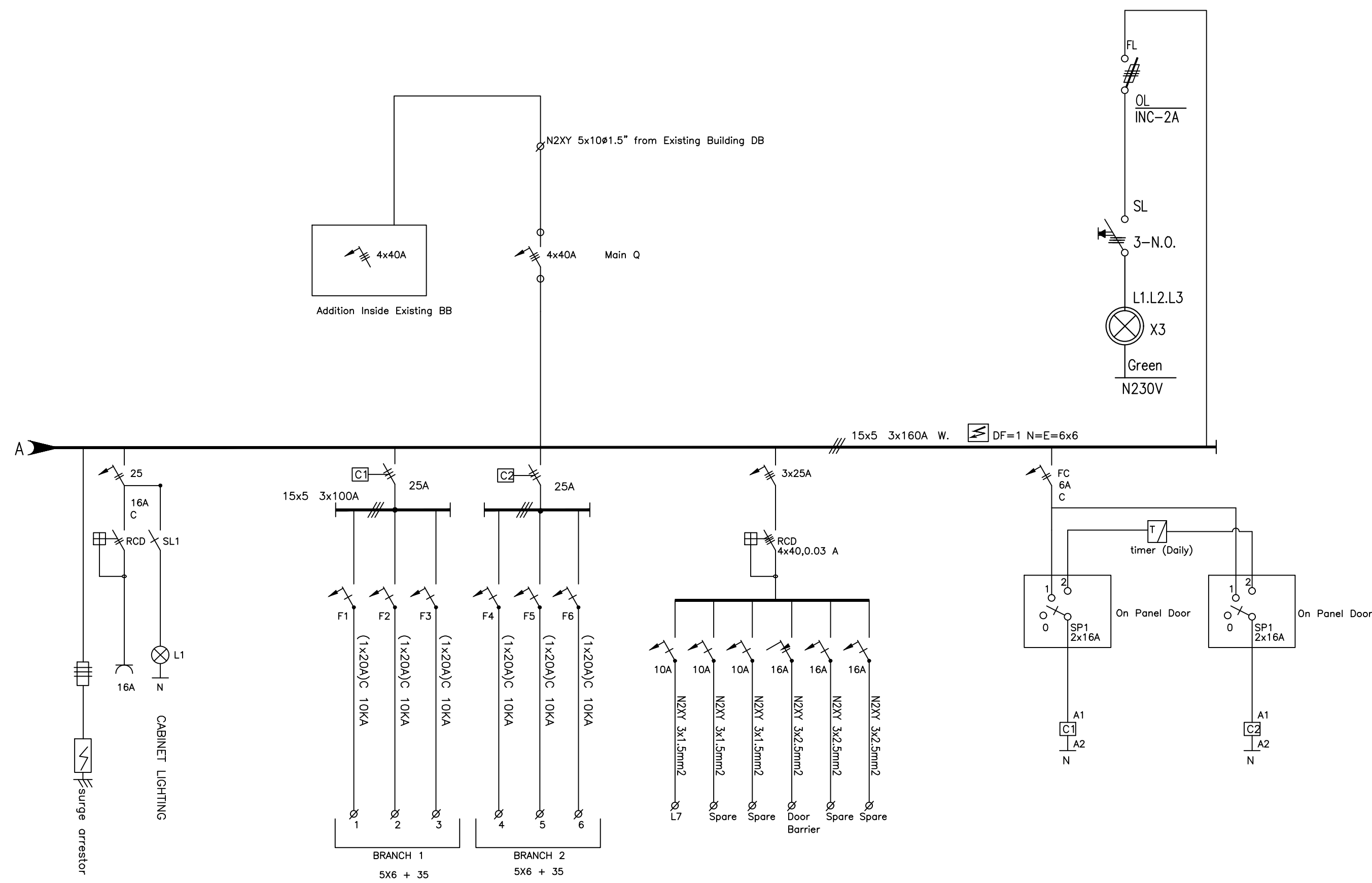
Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address email Tel. Fax:

Sheet Name:	ELECTRICAL DETAILS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Scale: 1:100
Checked by:	Ibrahim Alhindi	Drawing No: E03
Approved by:		
Coordinate Manager:		

DB-Outdoor Electrical Panel Details Power Diagram

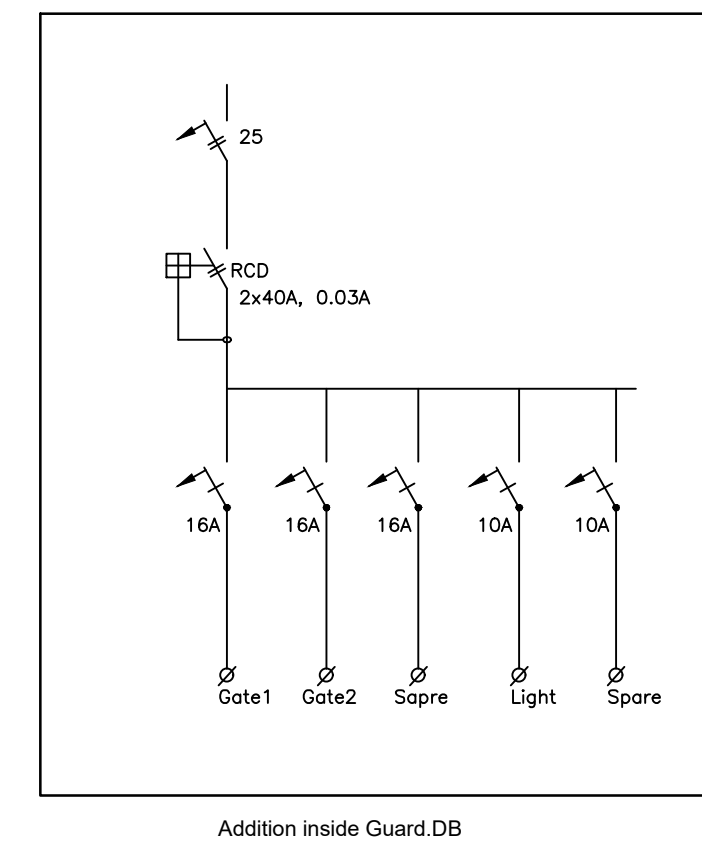
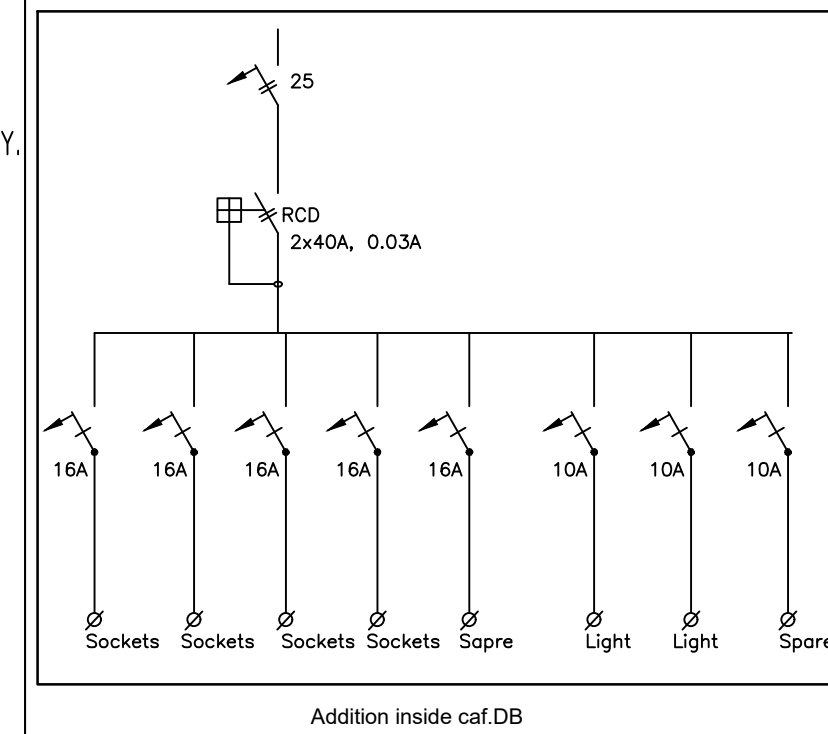


** ALL MCCB'S (40A-160A) ARE MOELLER - 25KA.
 ** ALL MCB'S ARE MOELLER - 10KA.
 ** METAL SHEET IS 1.5 MM.
 ** PAINTING WITH POWDER COATING RAL 7032 POBBLE GREY.

TOTAL POWER

PEC

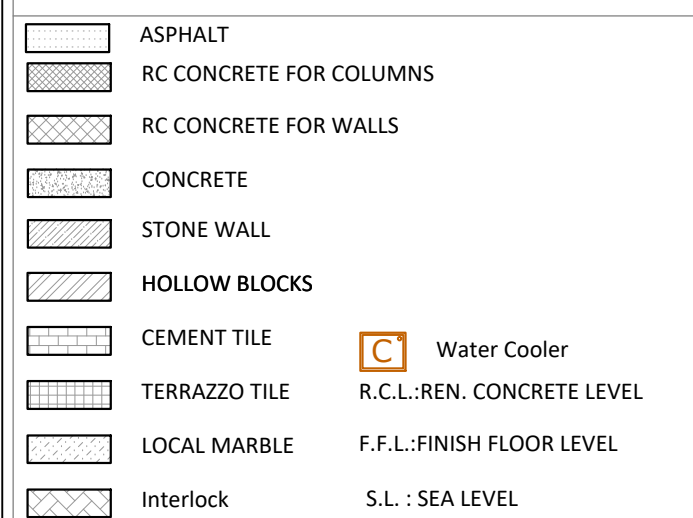
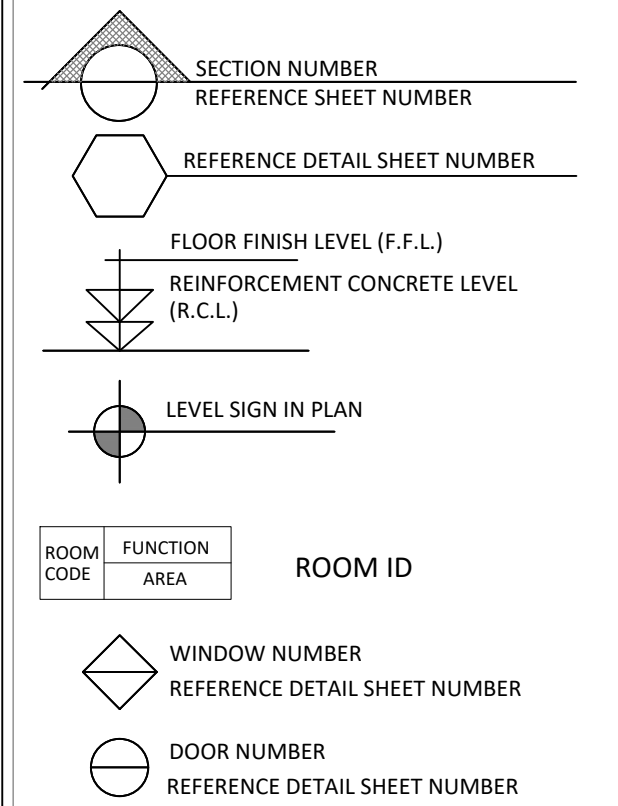
Additional Circuits



Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:



This Project is Funded by



EUROPEAN UNION

Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

M.Arch. Ibrahim Alhindi
3147 Design Studio

Address	Tel.
email	Fax:

Sheet Name: ELECTRICAL PANEL DETAILS		Date: Feb 2023
		Scale: 1:100
Designed by:	Ibrahim Alhindi	Drawing No: E04
Checked by:	Ibrahim Alhindi	
Approved by:		
Coordinate Manager:		

OUTDOOR-CAMPUS DEVELOPMENT AL-QUDS UNIVERSITY

Beit Hanina – Jerusalem

MECHANICAL DRAWINGS

COVER

M00

TABLE OF CONTENTS

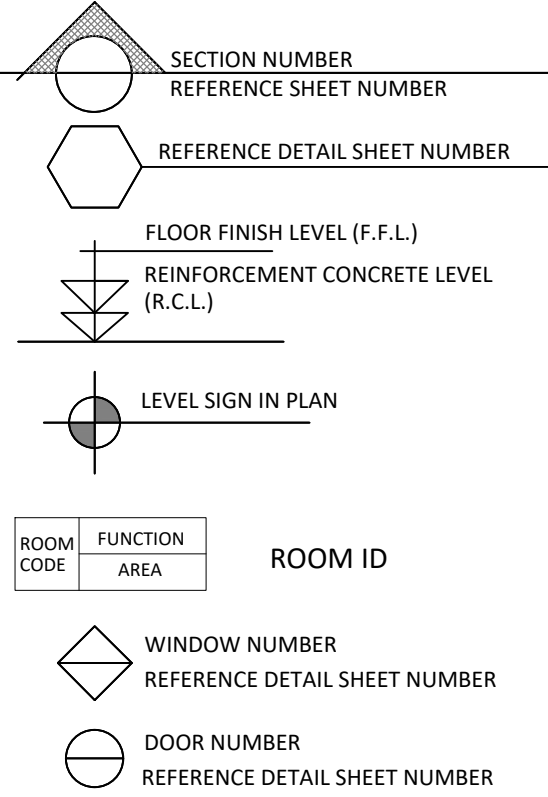
M01

MECHANICAL SYSTEM

Notes

- (1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



	ASPHALT
	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
	TERRAZZO TILE
	LOCAL MARBLE
	Interlock
	Water Cooler
	R.C.L.:REN. CONCRETE LEVEL
	F.F.L.:FINISH FLOOR LEVEL
	S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



This Project is Funded by



EUROPEAN UNION

Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

**M.Arch. Ibrahim Alhindi
3147 Design Studio**

Address
email

Tel.
Fax:

Sheet Name:	TABLE OF CONSTANTS	Date: Feb 2023
Designed by:	Ibrahim Alhindi	Drawing No:
Checked by:	Ibrahim Alhindi	M00
Approved by:		
Coordinate Manager:		



- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be

	WATER SUPPLY PIPE
	SECTION NUMBER
	REFERENCE SHEET NUMBER
	REFERENCE DETAIL SHEET NUMBER
	FLOOR FINISH LEVEL (F.F.L.)
	REINFORCEMENT CONCRETE LEVEL (R.C.L.)
	LEVEL SIGN IN PLAN
	ROOM CODE
	FUNCTION AREA
	ROOM ID
	WINDOW NUMBER
	REFERENCE DETAIL SHEET NUMBER
	DOOR NUMBER
	REFERENCE DETAIL SHEET NUMBER

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Enabel - Belgian Development Agency

EUROPEAN UNION

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

M.Arch. Ibrahim Alhindi
3147 Design Studio

Tel. _____
Fax: _____

SYMBOL	DESCRIPTION
	COLLECTOR
	WATER SUPPLY PIPE
	RETURN PIPE
	Domestic Cold Water Supply
	Domestic Hot Water Supply
	4" UPVC drainage pipe (1% Slope)
	2" UPVC drainage pipe (1% Slope)
	4" FLOOR TRAP
	Existing Manhole

Enabel - Belgian Development Agency



PUBLIC WORKS CONTRACT **for the Development of Semi-Public Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Funded by:



Belgium
partner in development

This Project is Funded by



EUROPEAN UNION

Designed By:

31°47' Design
Studio, Jerusalem

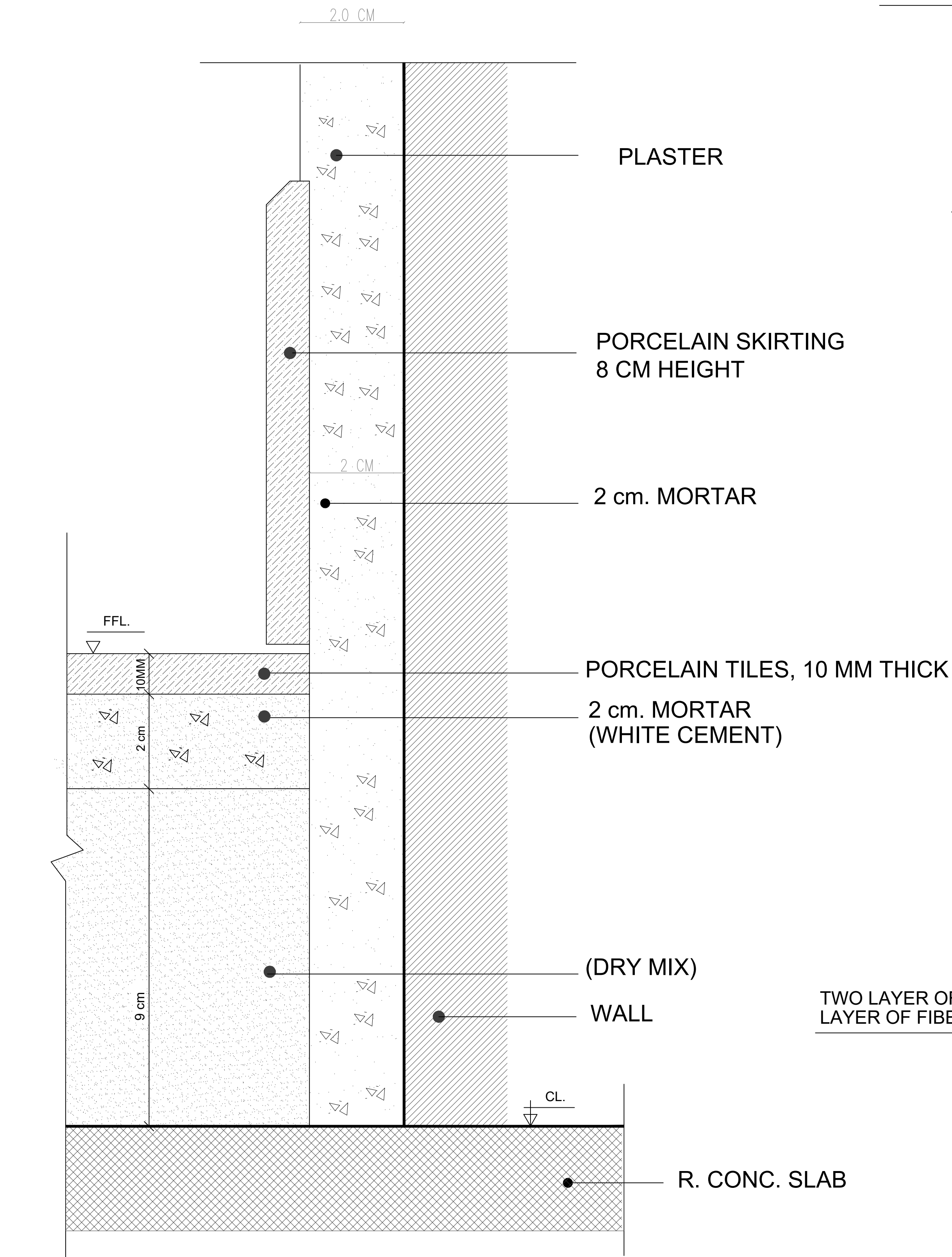
February 2023

OUTDOOR - CAMPUS DEVELOPMENT

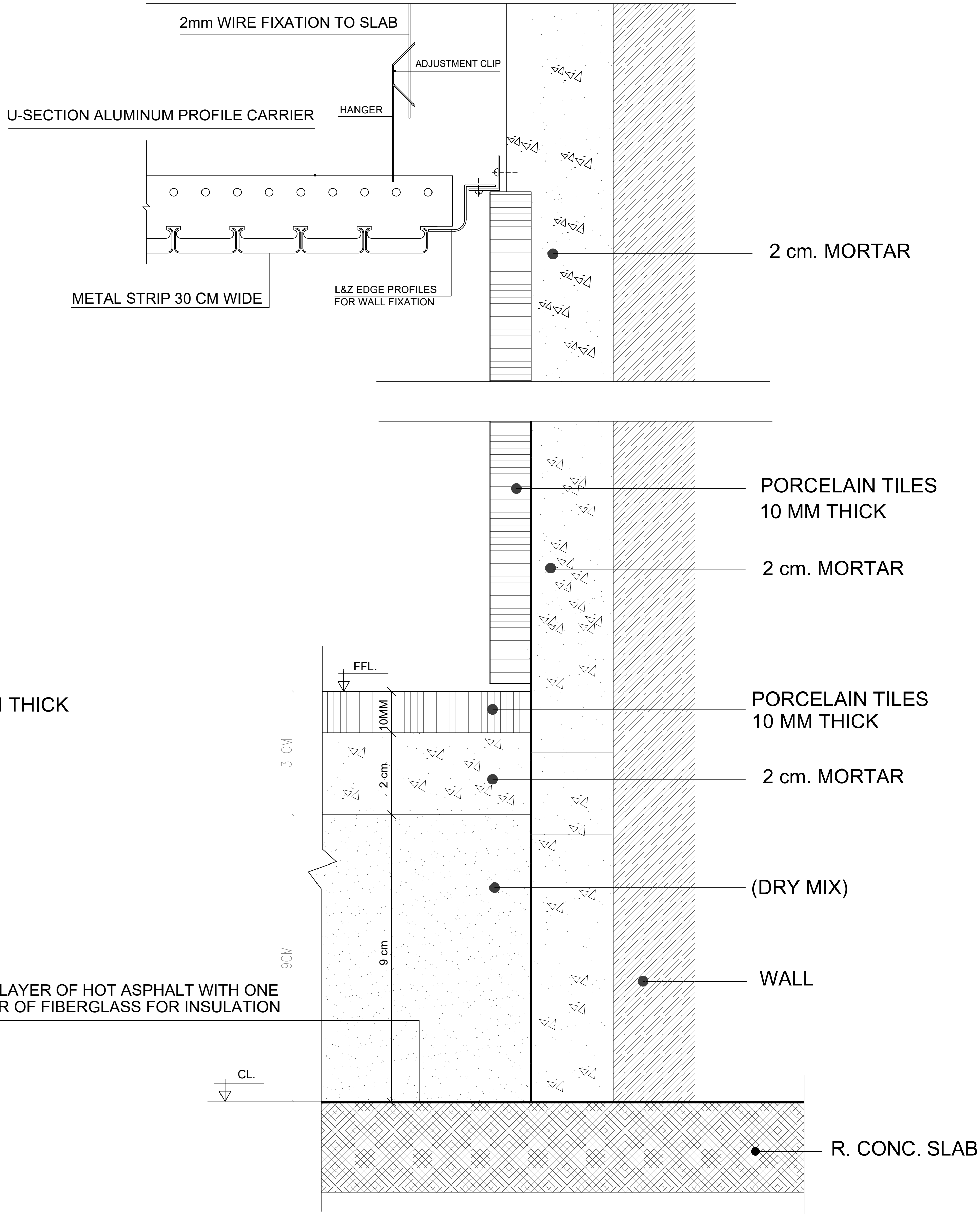
AL-QUDS UNIVERSITY

Beit Hanina–Jerusalem

BOOK OF DETAILS



01
A
DETAIL OF PORCELAIN FLOOR FINISHING
Scale 1:5

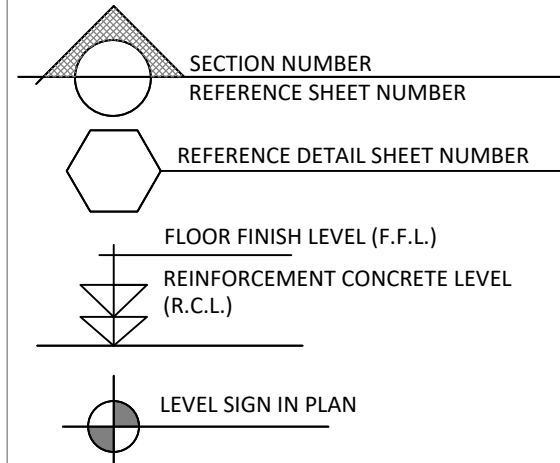


01
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DETAIL OF CERAMIC FLOOR FINISHING
Scale 1:5

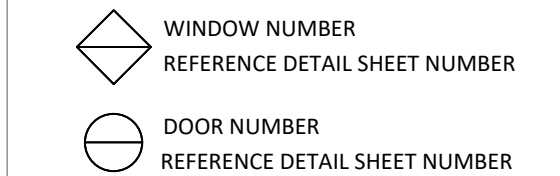
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- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
-----------	---------------	---------



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	WATER COOLER
TERRAZZO TILE	R.C.L.:REN. CONCRETE LEVEL
LOCAL MARBLE	F.F.L.:FINISH FLOOR LEVEL
Interlock	S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

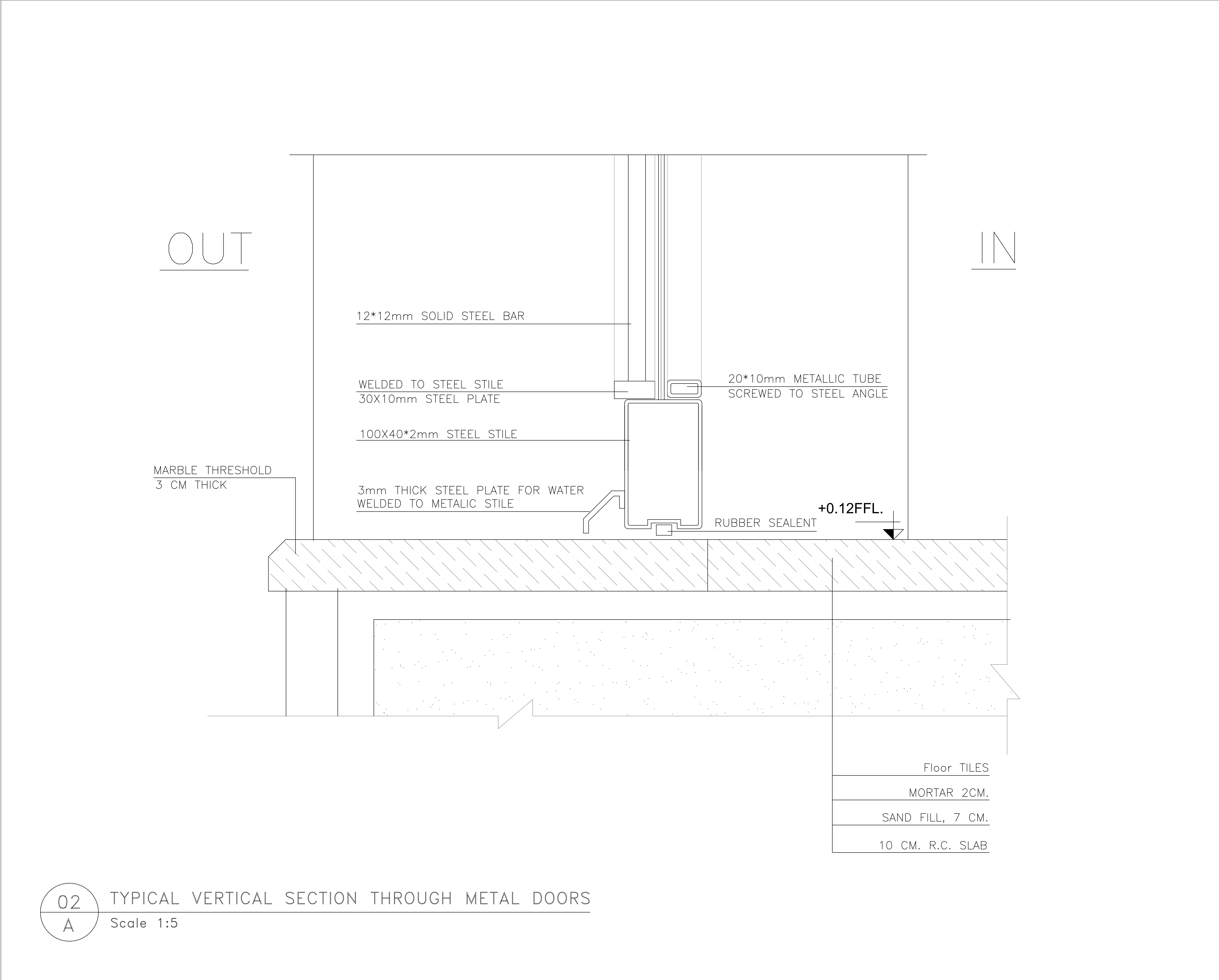
**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Address email Tel. Fax:

Sheet Name:	PORCELAIN FLOOR FINISHING	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D01
Approved by:	NAME	
Coordinate Manager:	NAME	



Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION AREA

ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L.:REN. CONCRETE LEVEL

F.F.L.:FINISH FLOOR LEVEL

S.L. : SEA LEVEL

REVISIONS

NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:

Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Address email

Tel. Fax:

Sheet Name:

TYPICAL VERTICAL SECTION THROUGH METAL DOORS

Date: Jan 2023

Designed by:

NAME M.Arch. Ibrahim Alhindi

Checked by:

NAME M.Arch. Ibrahim Alhindi

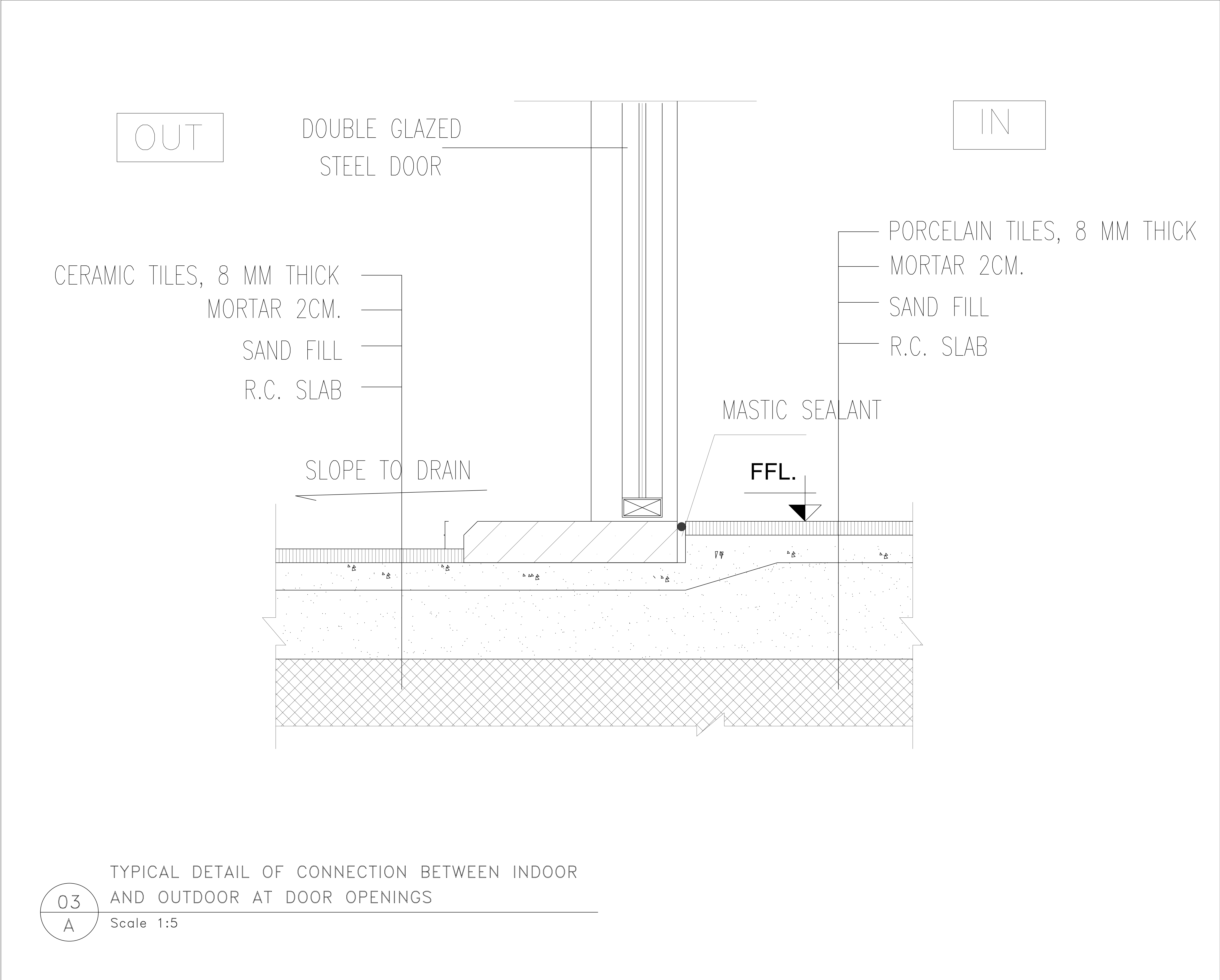
Approved by:

NAME

Coordinate Manager:

NAME

Drawing No: D02



Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION AREA

ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L.:REN. CONCRETE LEVEL

F.F.L.:FINISH FLOOR LEVEL

S.L. : SEA LEVEL

REVISIONS

NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:

Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Address email

Tel. Fax:

Sheet Name:

TYPICAL DETAIL OF CONNECTION
BETWEEN INDOOR AND OUTDOOR

Date: Jan 2023

Designed by:

NAME M.Arch. Ibrahim Alhindi

Checked by:

NAME M.Arch. Ibrahim Alhindi

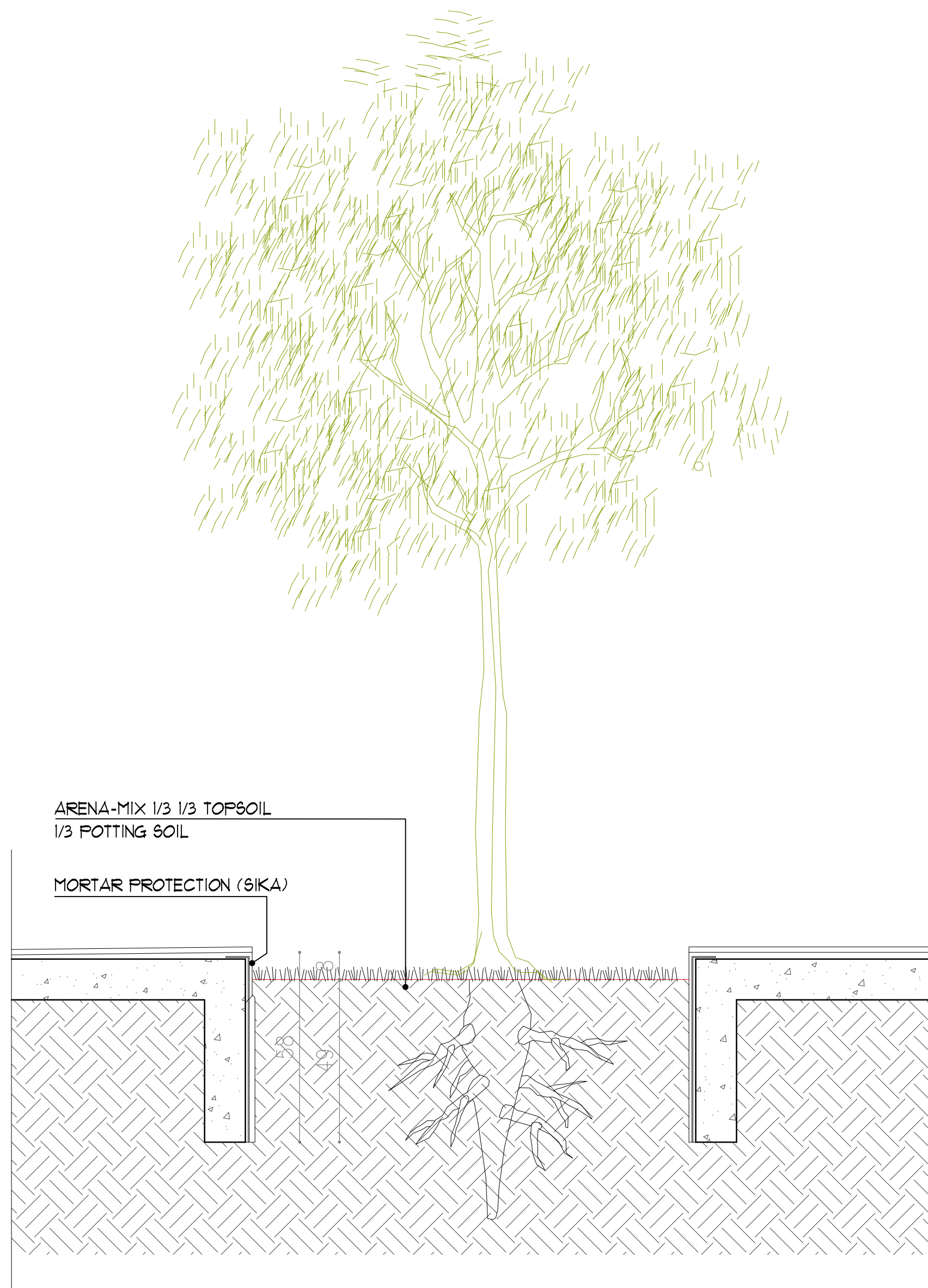
Approved by:

NAME

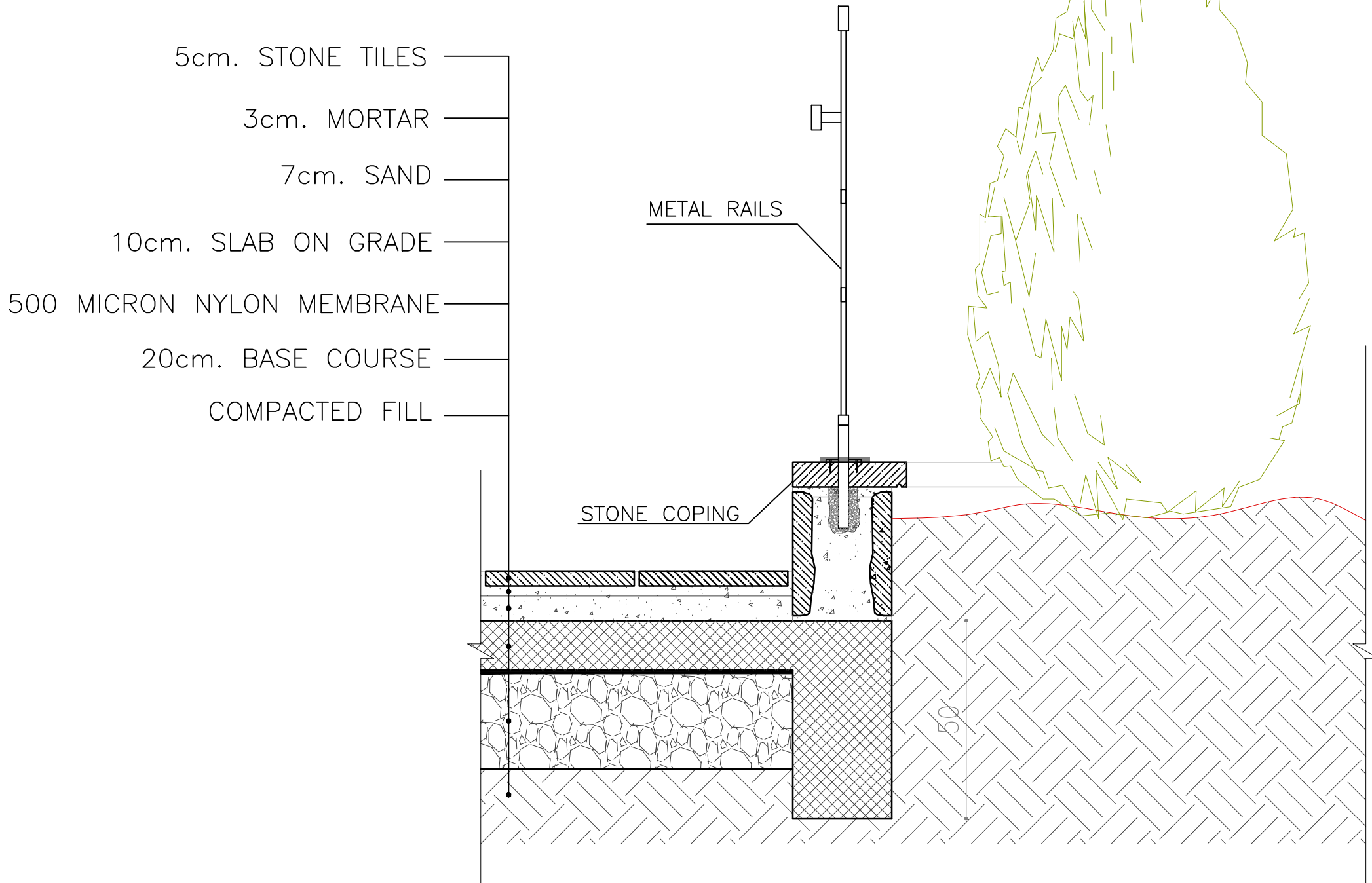
Coordinate Manager:

NAME

Drawing No:
D03



04 TYPICAL PLANTER – SECTION
A Scale 1:20

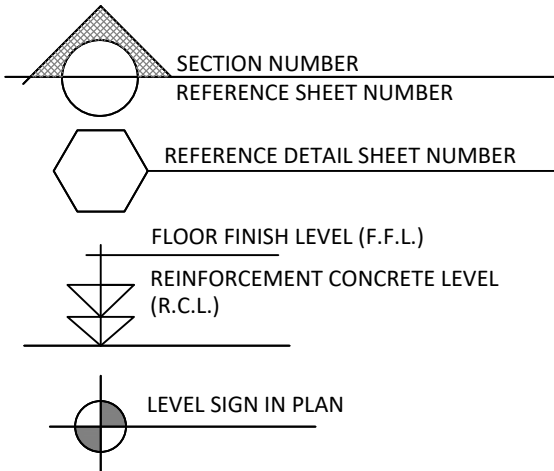


05 TYPICAL PLANTER – SECTION
A Scale 1:20

Notes

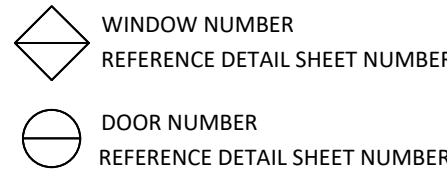
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- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA
-----------	---------------

ROOM ID



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	TERRAZZO TILE
LOCAL MARBLE	Interlock
Water Cooler	R.C.L.:REN. CONCRETE LEVEL
F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL

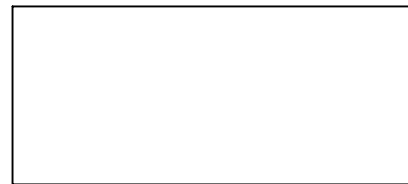
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Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
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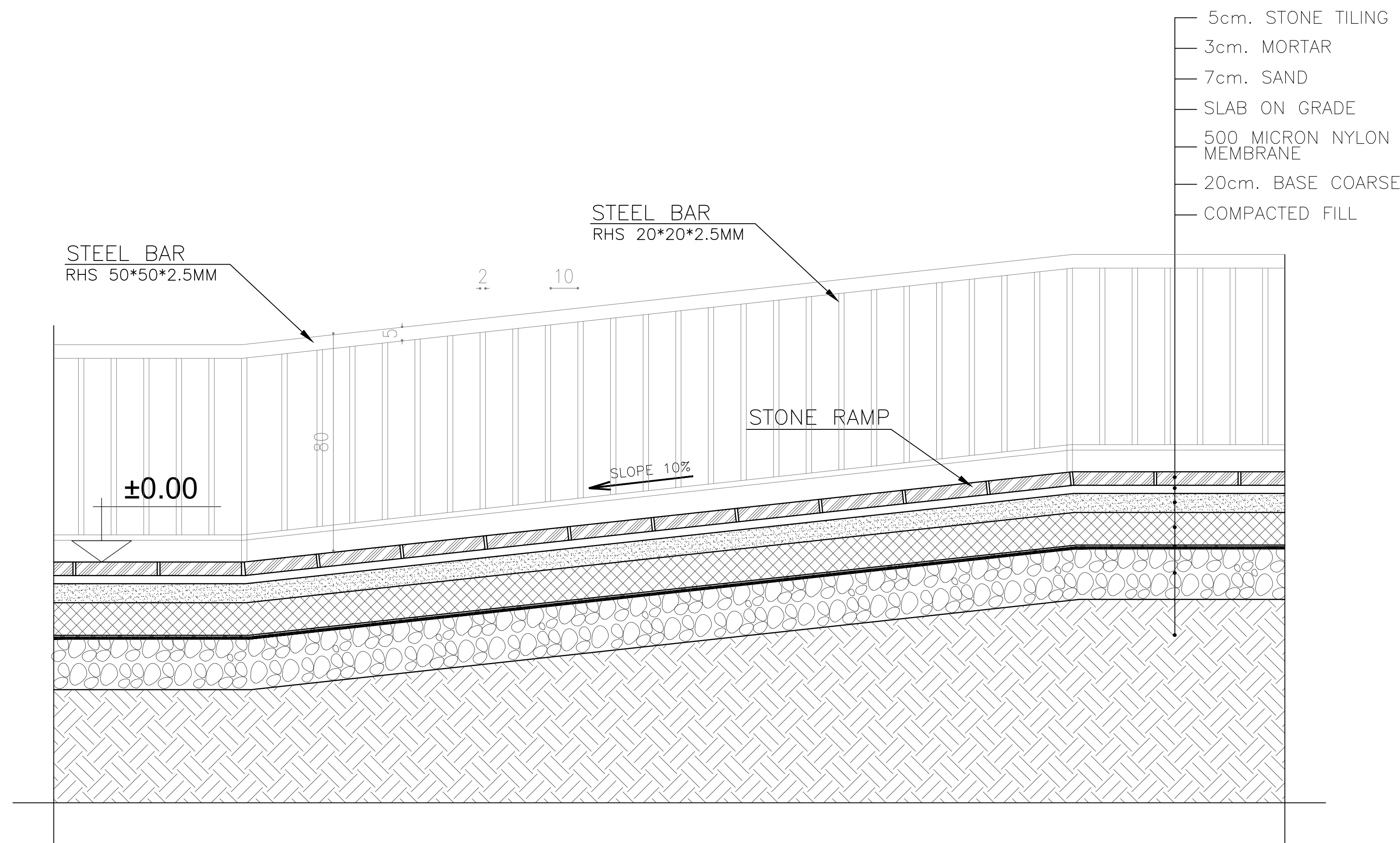
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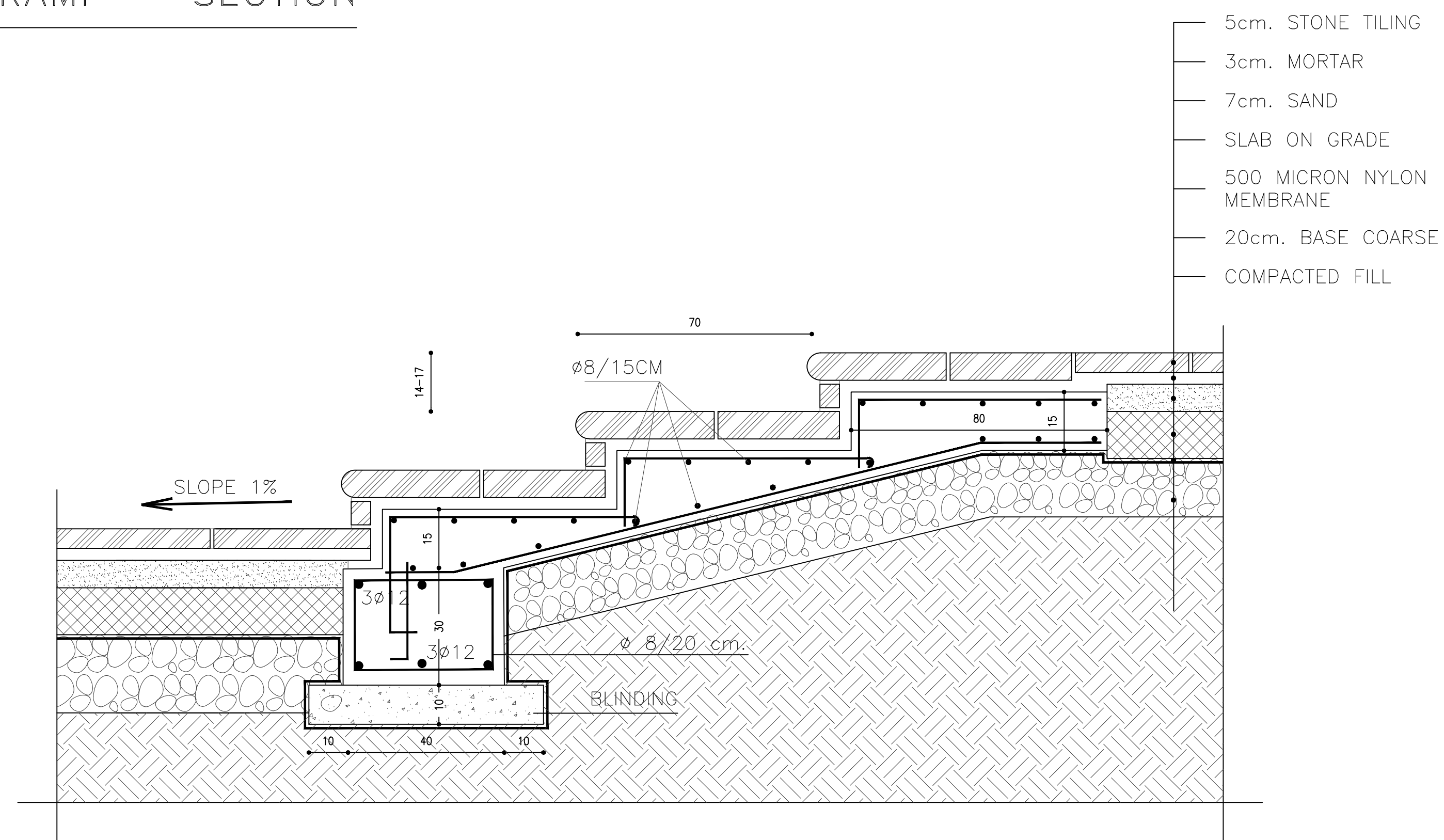
Address
email

Tel.
Fax:

Sheet Name:	PLANTER DETAILS	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D04
Approved by:	NAME	
Coordinate Manager:	NAME	



06
A
TYPICAL STONE RAMP – SECTION
Scale 1:25

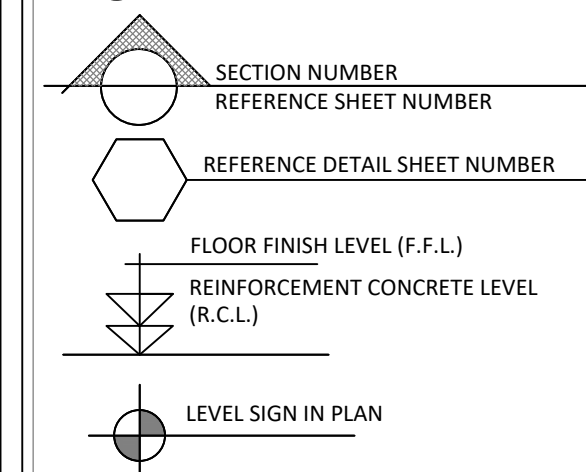


07
A
TYPICAL STONE STAIRS – SECTION
Scale 1:20

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA	ROOM ID

	ASPHALT
	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
	TERRAZZO TILE
	LOCAL MARBLE
	Interlock
	Water Cooler
	R.C.L.:REN. CONCRETE LEVEL
	F.F.L.:FINISH FLOOR LEVEL
	S.L. : SEA LEVEL

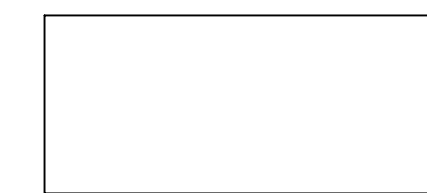
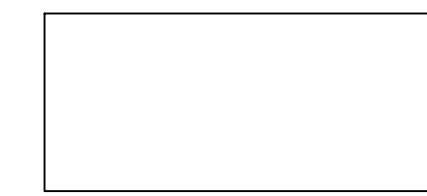
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(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

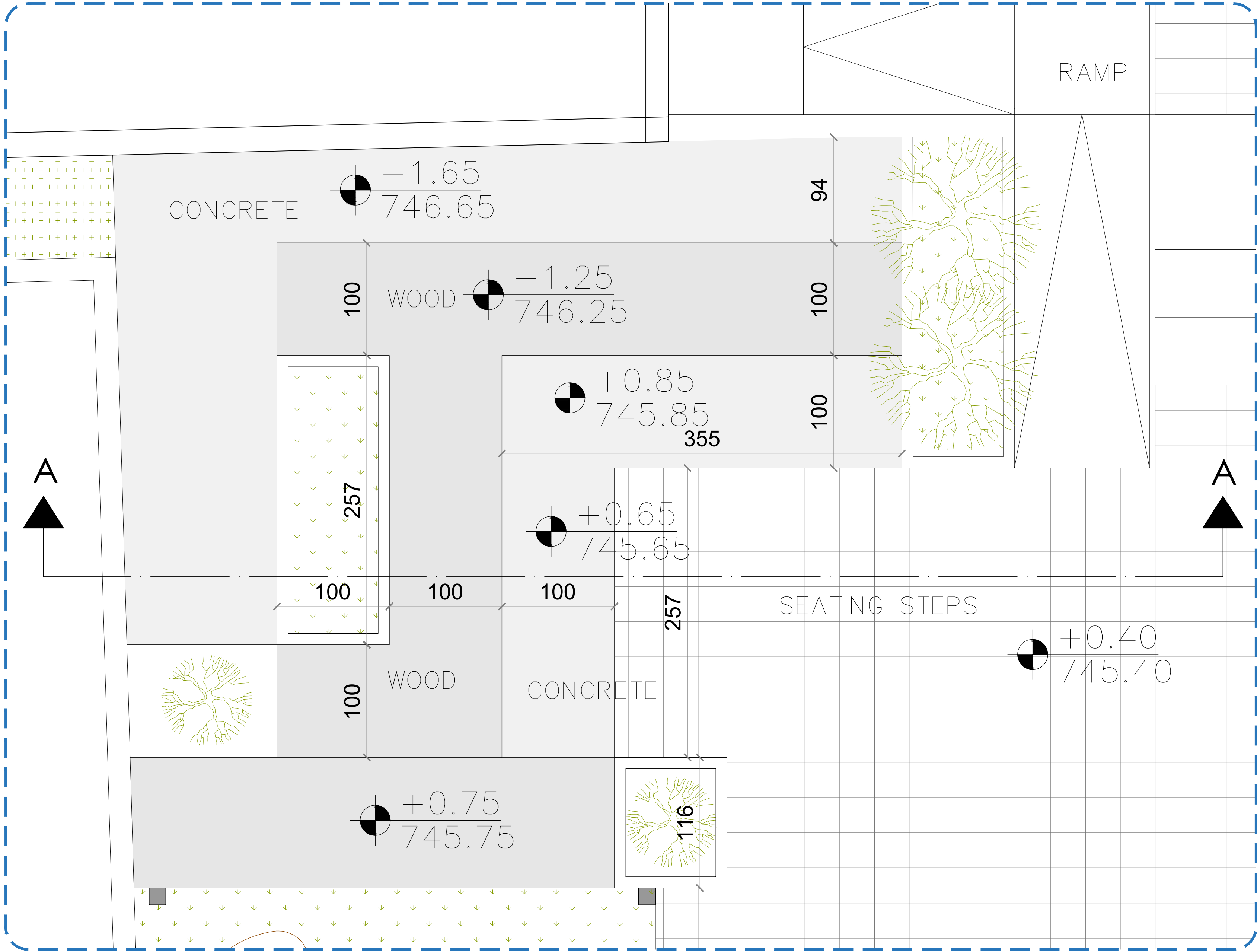
**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Address email Tel. Fax:

Sheet Name:	STAIRS DETAILS	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D05
Approved by:	NAME	
Coordinate Manager:	NAME	

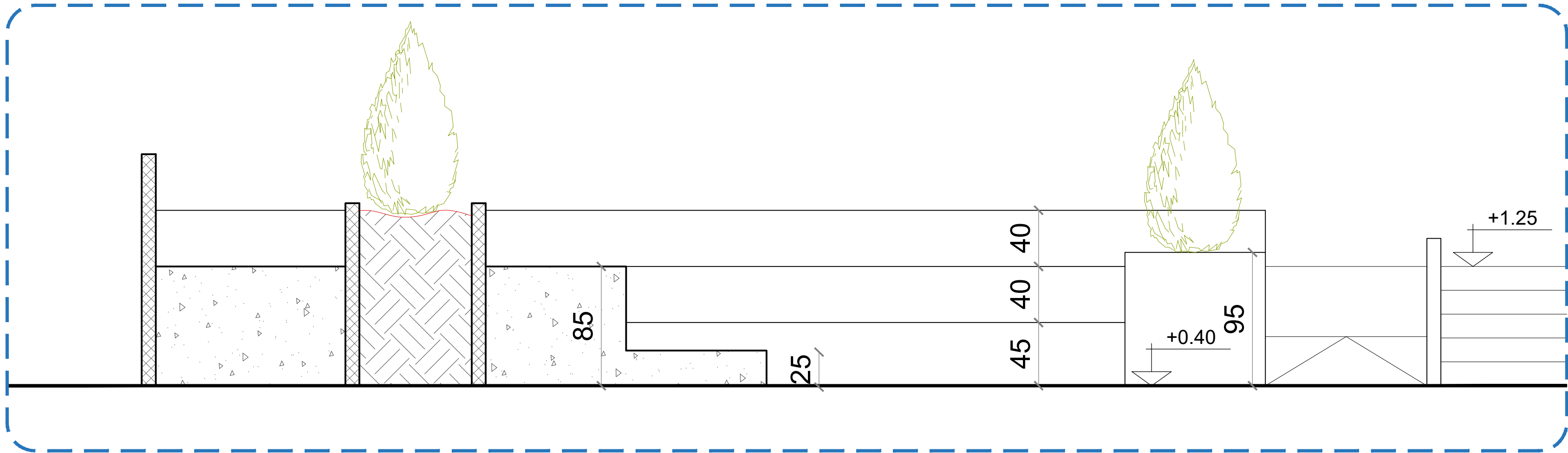


08

A

SEATING STEPS – PLAN

Scale 1:50



08

B

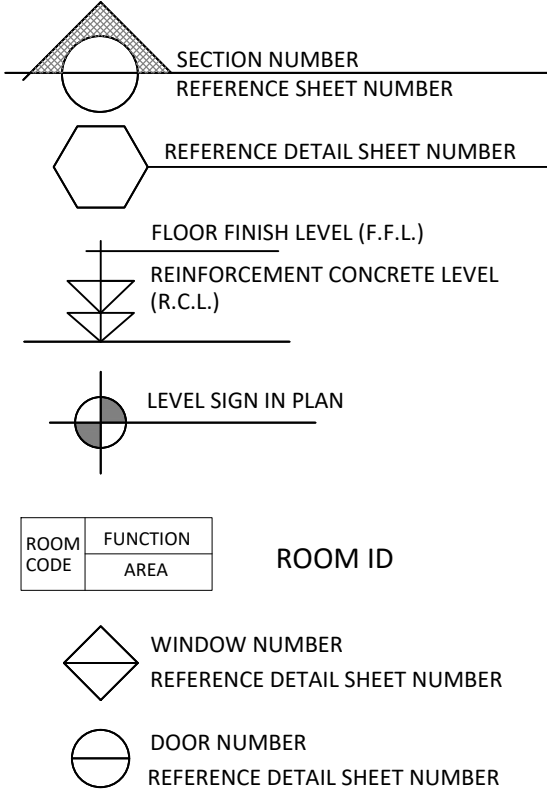
SEATING STEPS – SECTION

Scale 1:50

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
ASPHALT	RC CONCRETE FOR COLUMNS	WINDOW NUMBER
RC CONCRETE FOR WALLS	CONCRETE	REFERENCE DETAIL SHEET NUMBER
STONE WALL	HOLLOW BLOCKS	DOOR NUMBER
CEMENT TILE	TERRAZZO TILE	REFERENCE DETAIL SHEET NUMBER
LOCAL MARBLE	Interlock	Water Cooler
		R.C.L.:REN. CONCRETE LEVEL
		F.F.L.:FINISH FLOOR LEVEL
		S.L. : SEA LEVEL

REVISIONS

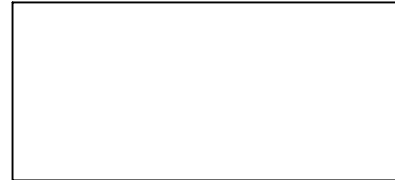
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Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

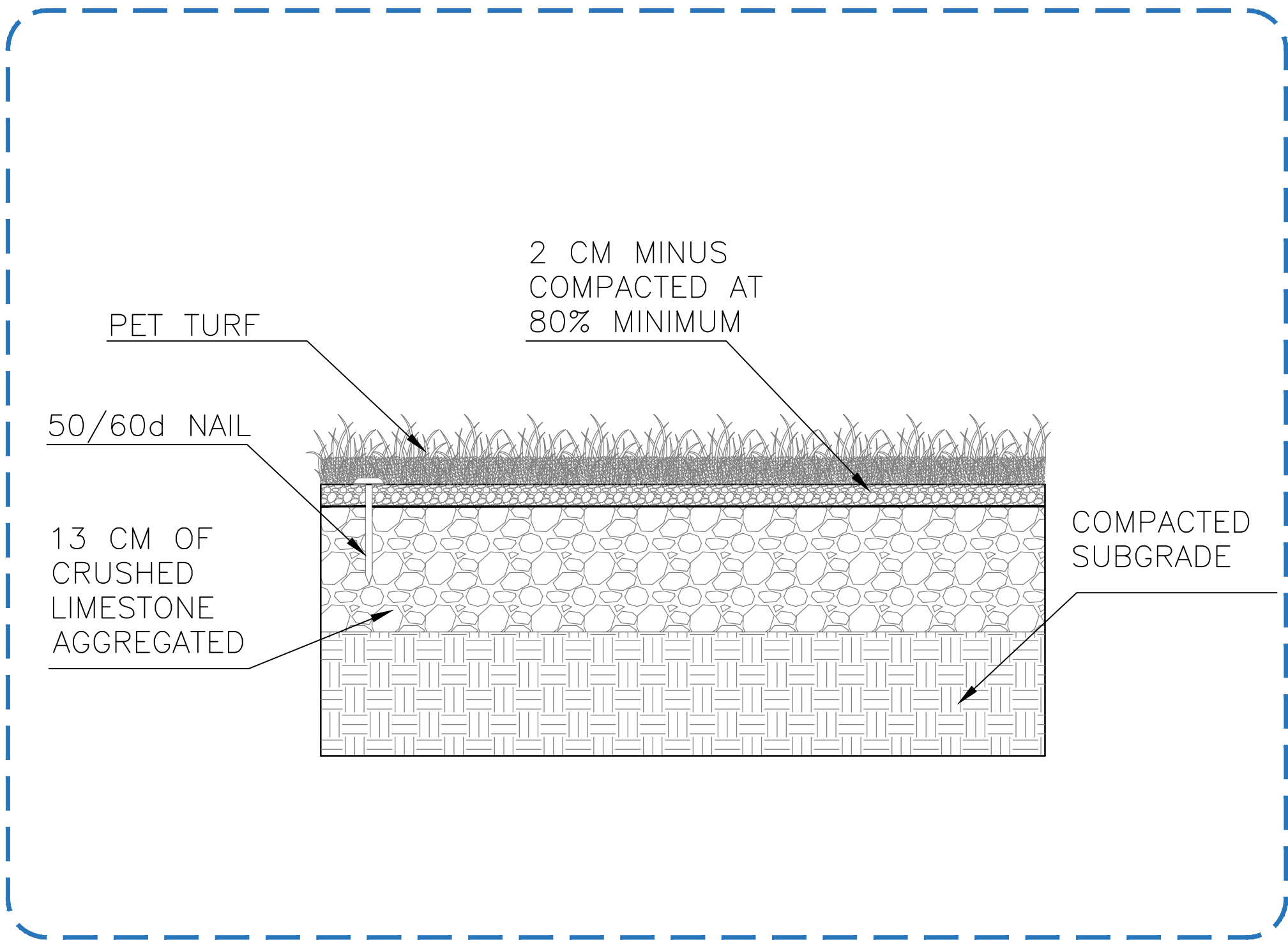
**PUBLIC WORKS CONTRACT
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Spaces in East Jerusalem'**

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Address email Tel. Fax:

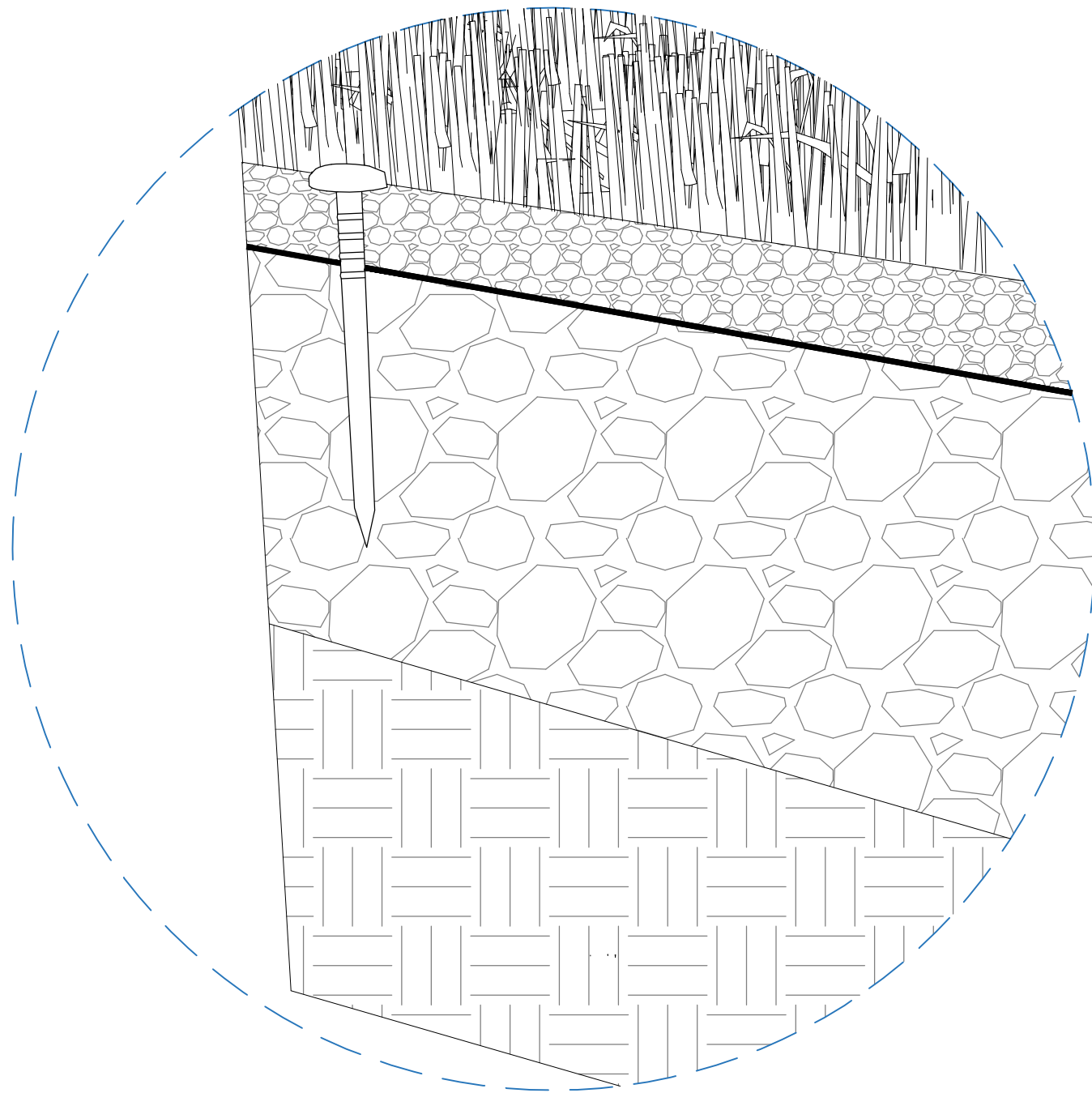
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Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D06
Approved by:	NAME	
Coordinate Manager:	NAME	



09
A

ARTIFICIAL GRASS – SECTION

Scale 1:10



09
B

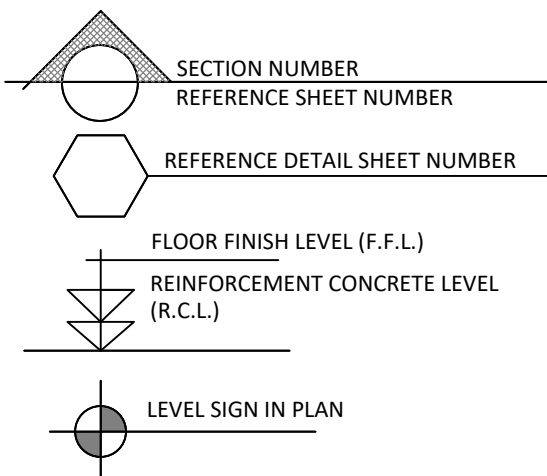
ARTIFICIAL GRASS – PERSPECTIVE

NOT TO SCALE

Notes

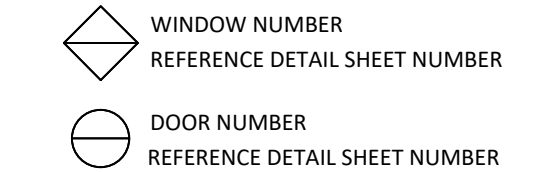
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(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA
-----------	---------------

ROOM ID



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	Water Cooler
TERRAZZO TILE	R.C.L.:REN. CONCRETE LEVEL
LOCAL MARBLE	F.F.L.:FINISH FLOOR LEVEL
Interlock	S.L. : SEA LEVEL

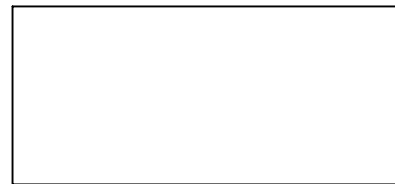
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NO.	DRAWINGS	DATE
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Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

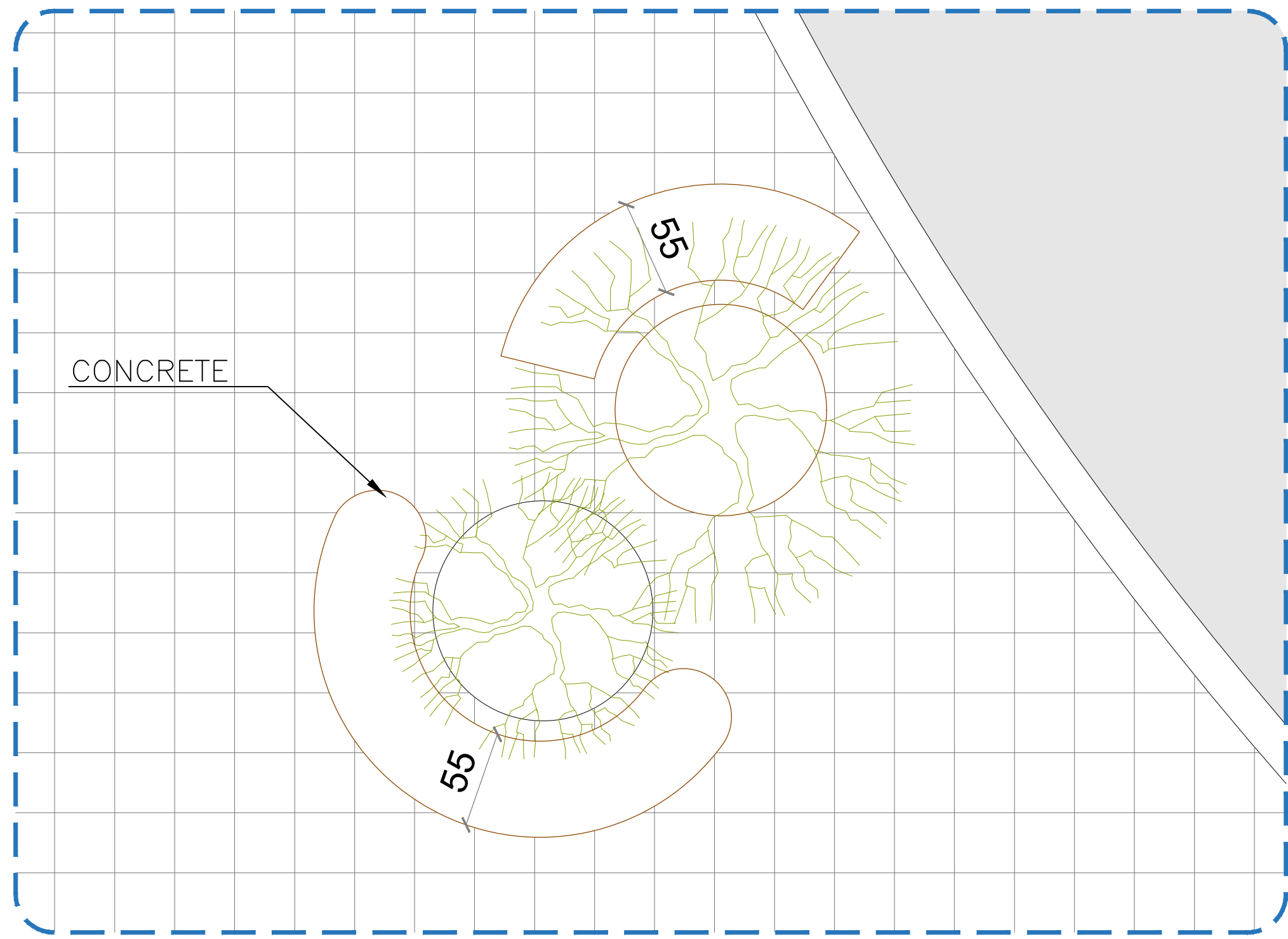
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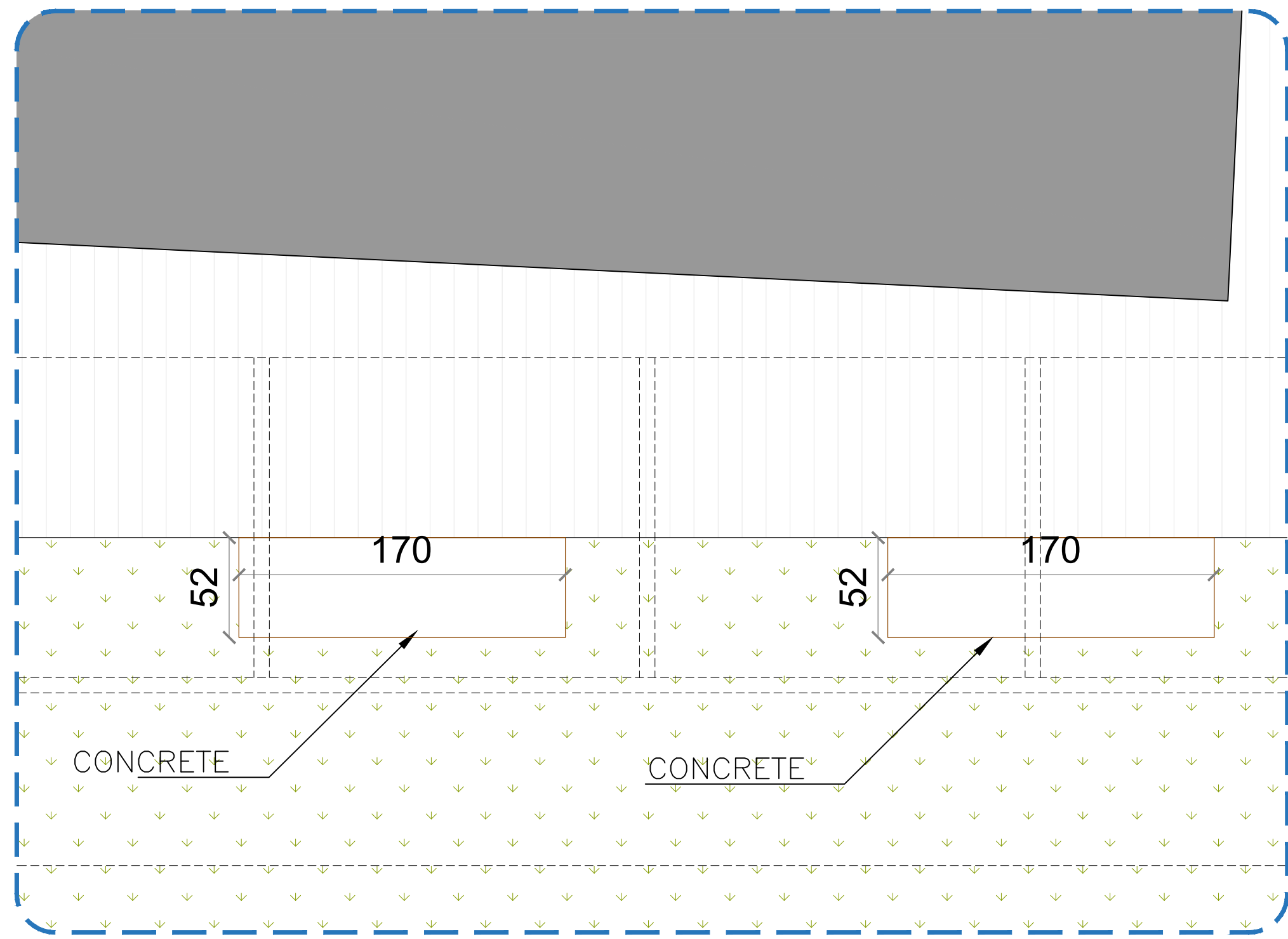
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email

Tel.
Fax:

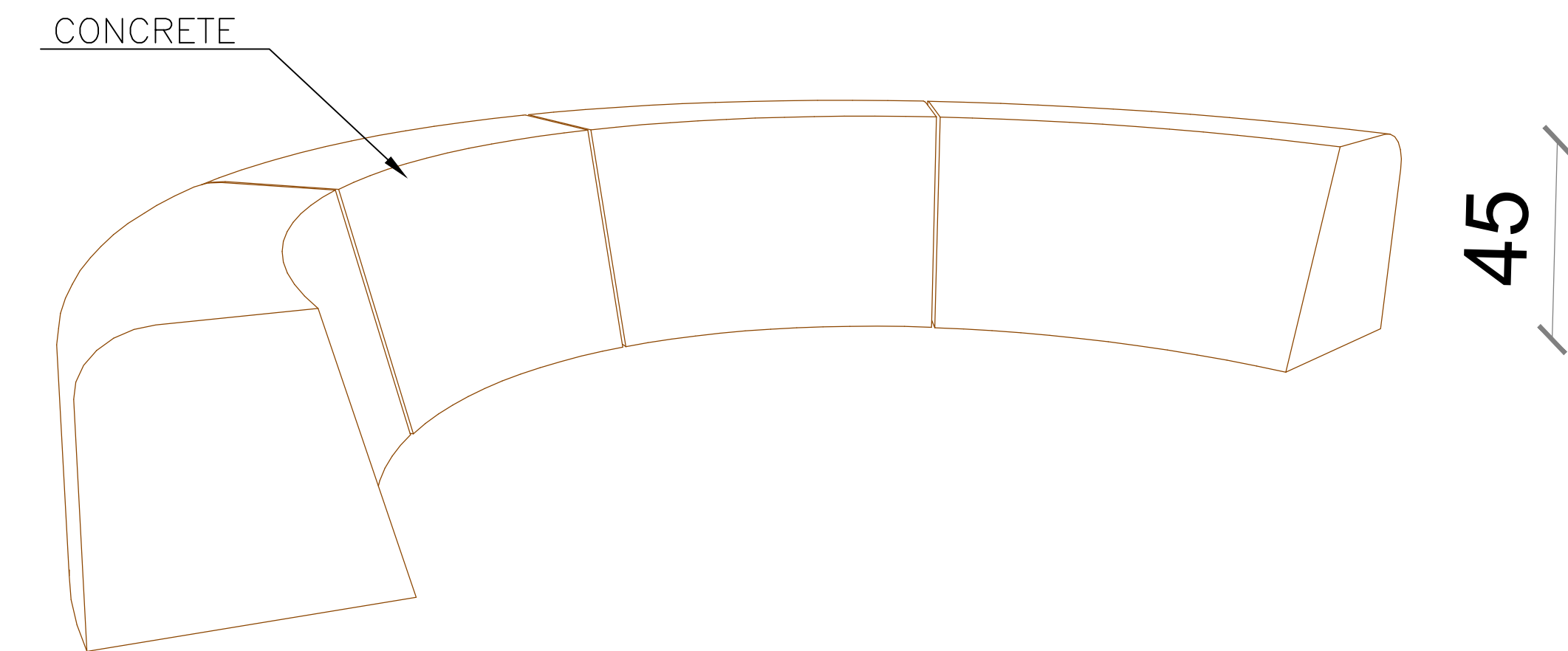
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Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D07
Approved by:	NAME	
Coordinate Manager:	NAME	



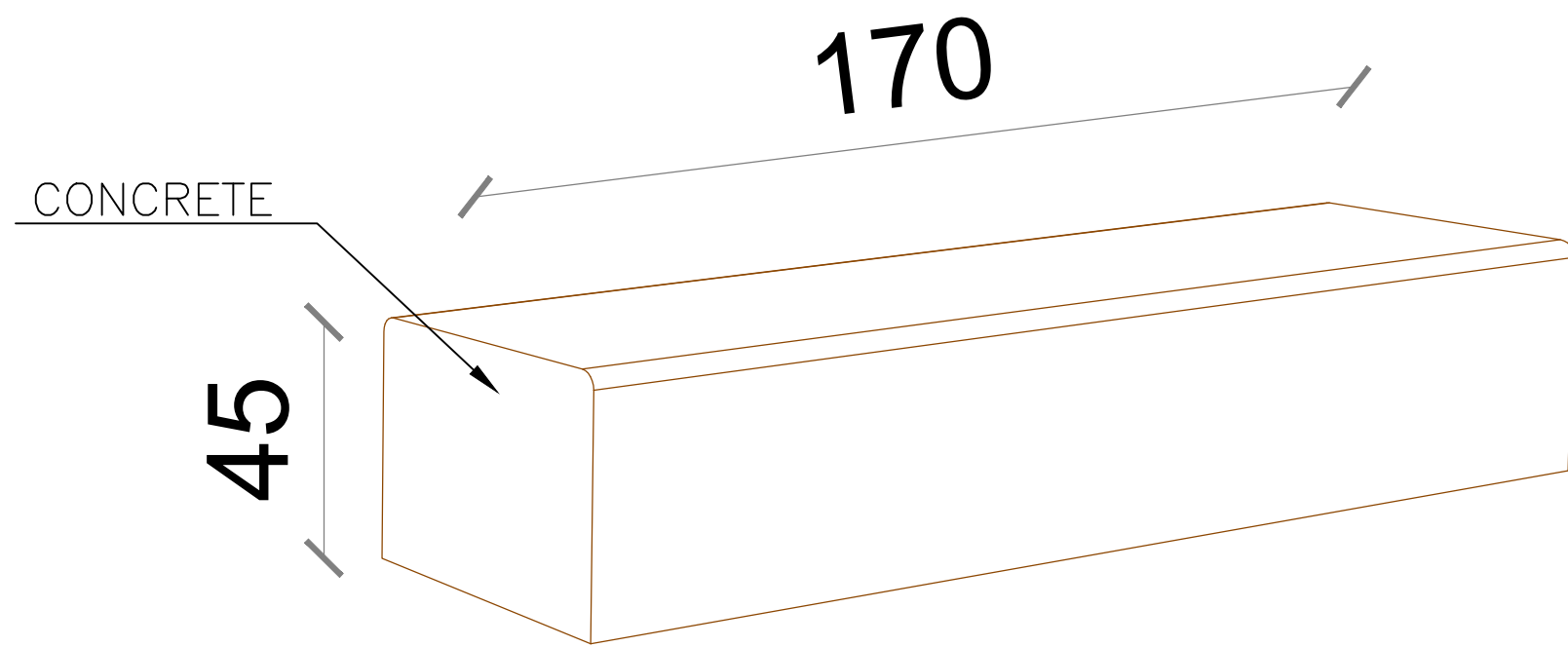
10
A
ARC CONCRETE BENCH – PLAN
Scale 1:50



11
A
RECTANGULAR CONCRETE BENCH – PLAN
Scale 1:50



10
B
ARC CONCRETE BENCH – 3D
NOT TO SCALE

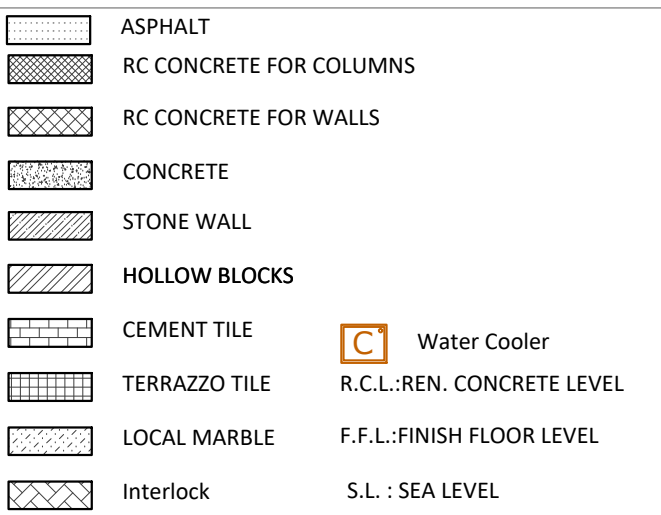
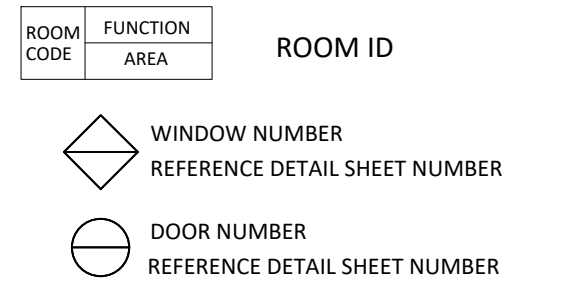
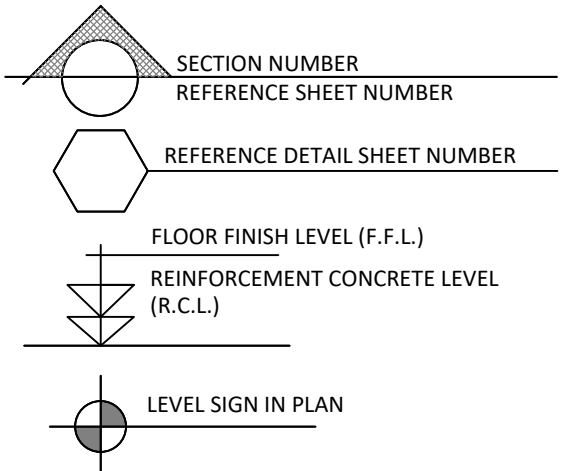


11
B
RECTANGULAR CONCRETE BENCH – 3D
NOT TO SCALE

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS

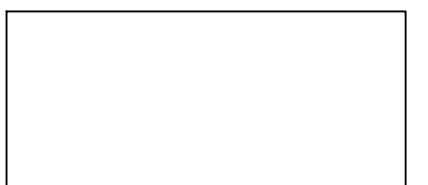
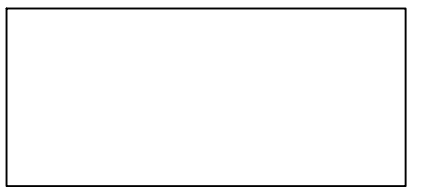
NO.	DRAWINGS	DATE
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(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

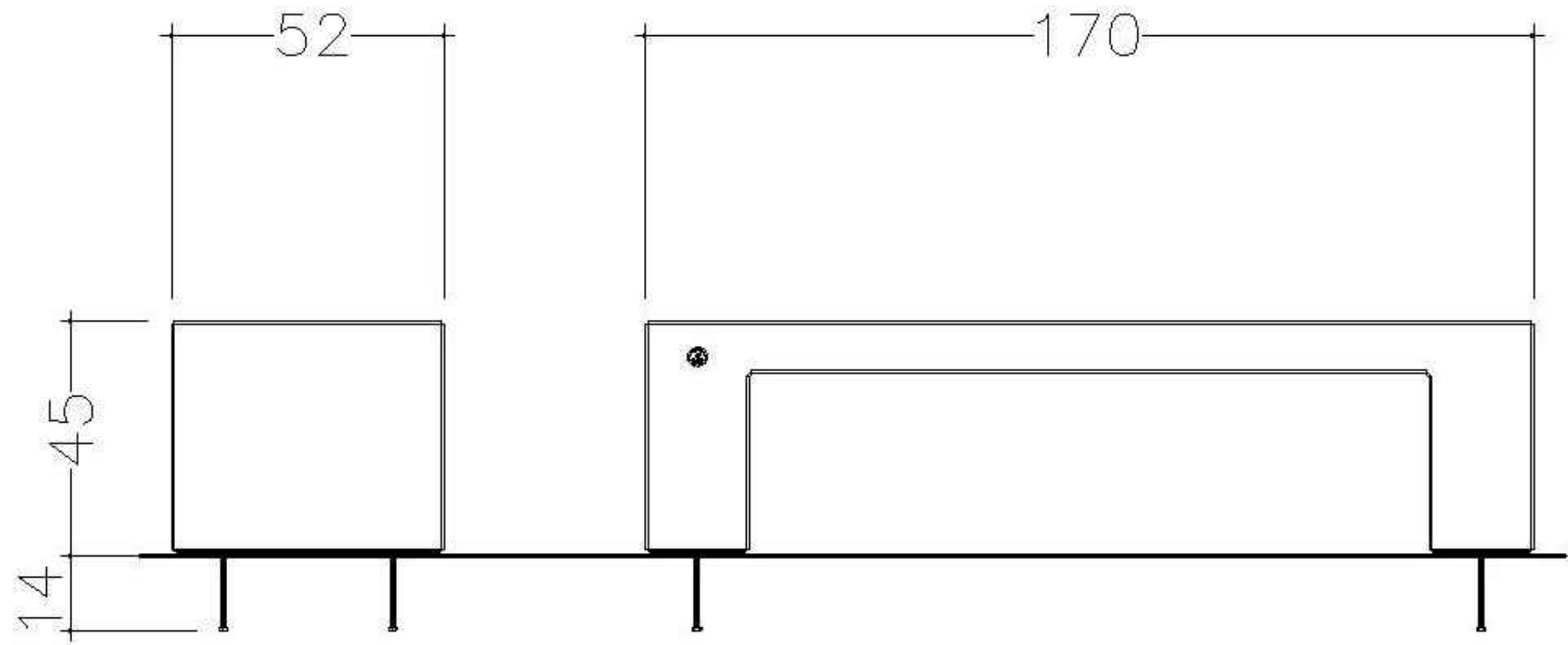
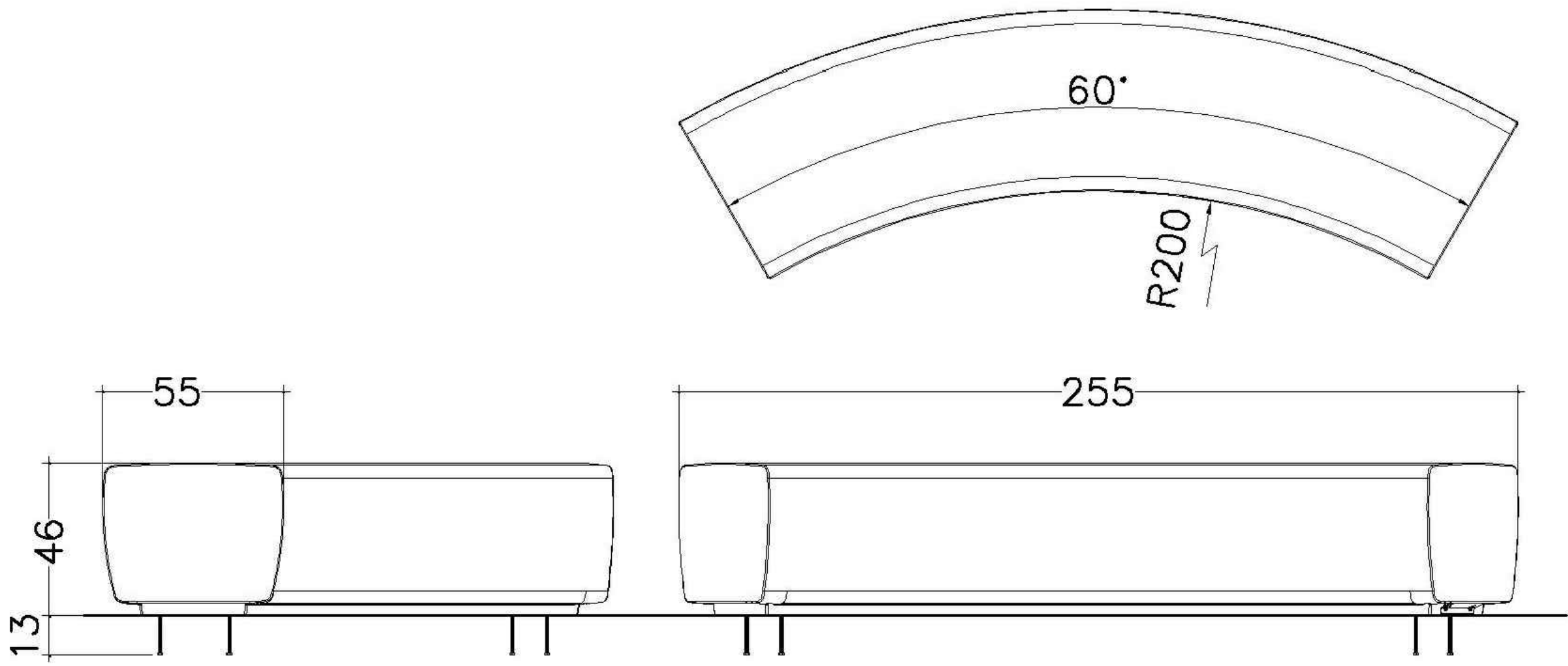
Reference No.: PZA170421T-10029

Designed by:

Address
email

Tel.
Fax:

Sheet Name:	CONCRETE BENCH	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D08
Approved by:	NAME	
Coordinate Manager:	NAME	



10
C

ARC CONCRETE BENCH

NOT TO SCALE

11
C

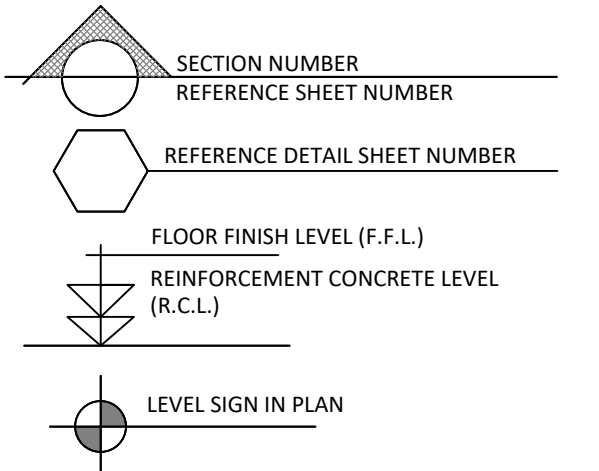
RECTANGULAR CONCRETE BENCH

NOT TO SCALE

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA	ROOM ID

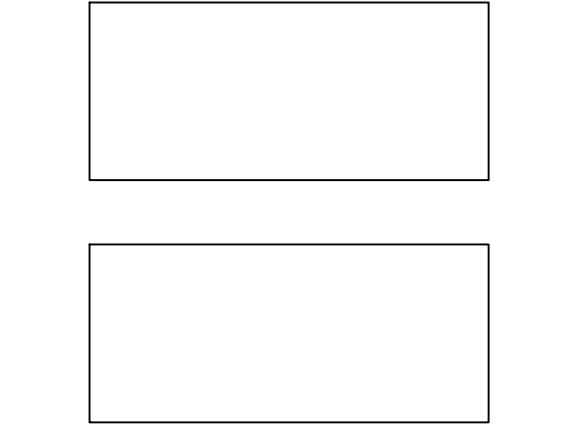
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	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
	TERRAZZO TILE
	LOCAL MARBLE
	Interlock
	Water Cooler
	R.C.L.:REN. CONCRETE LEVEL
	F.F.L.:FINISH FLOOR LEVEL
	S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Funded By:



Project Title:

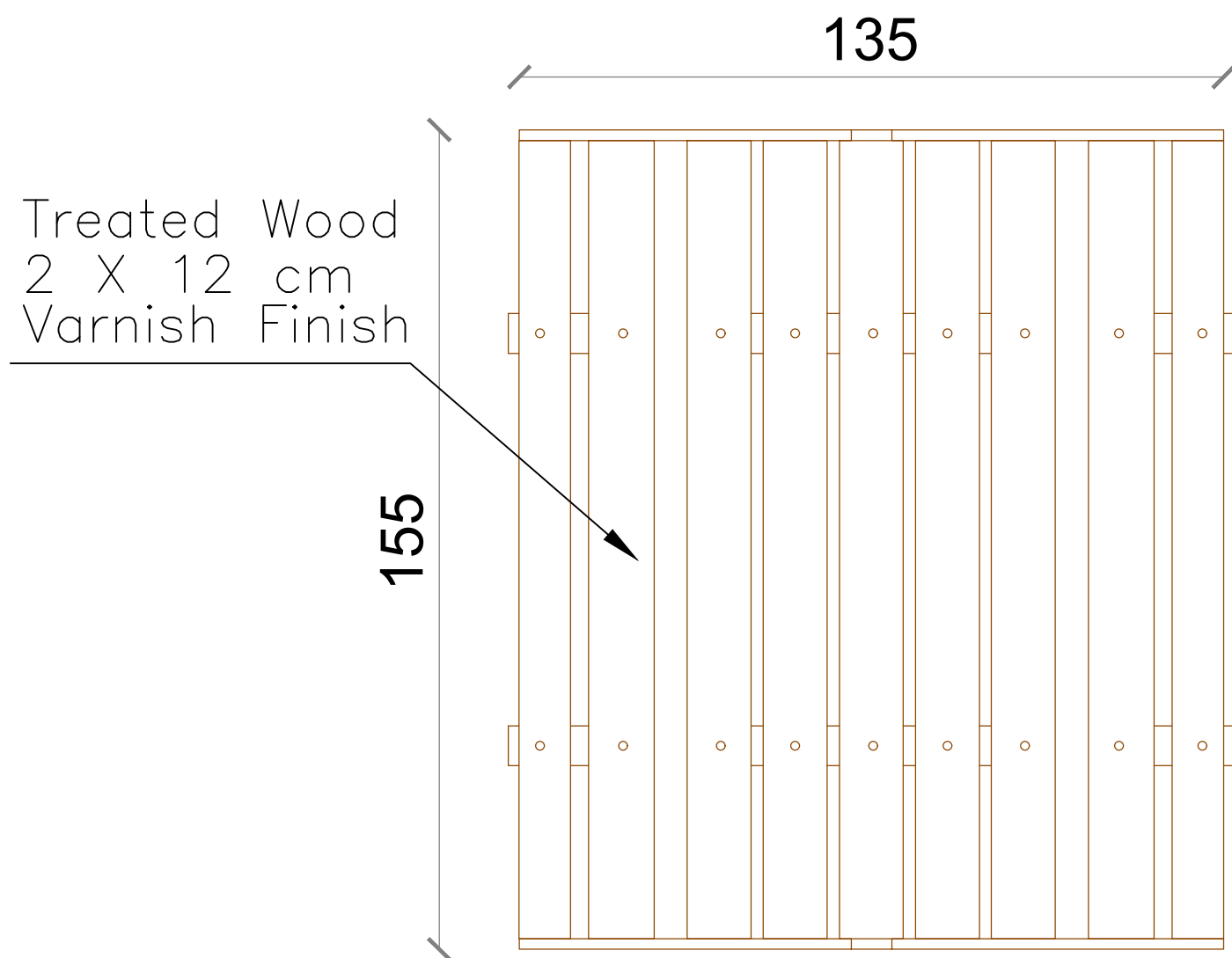
PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Address email Tel. Fax:

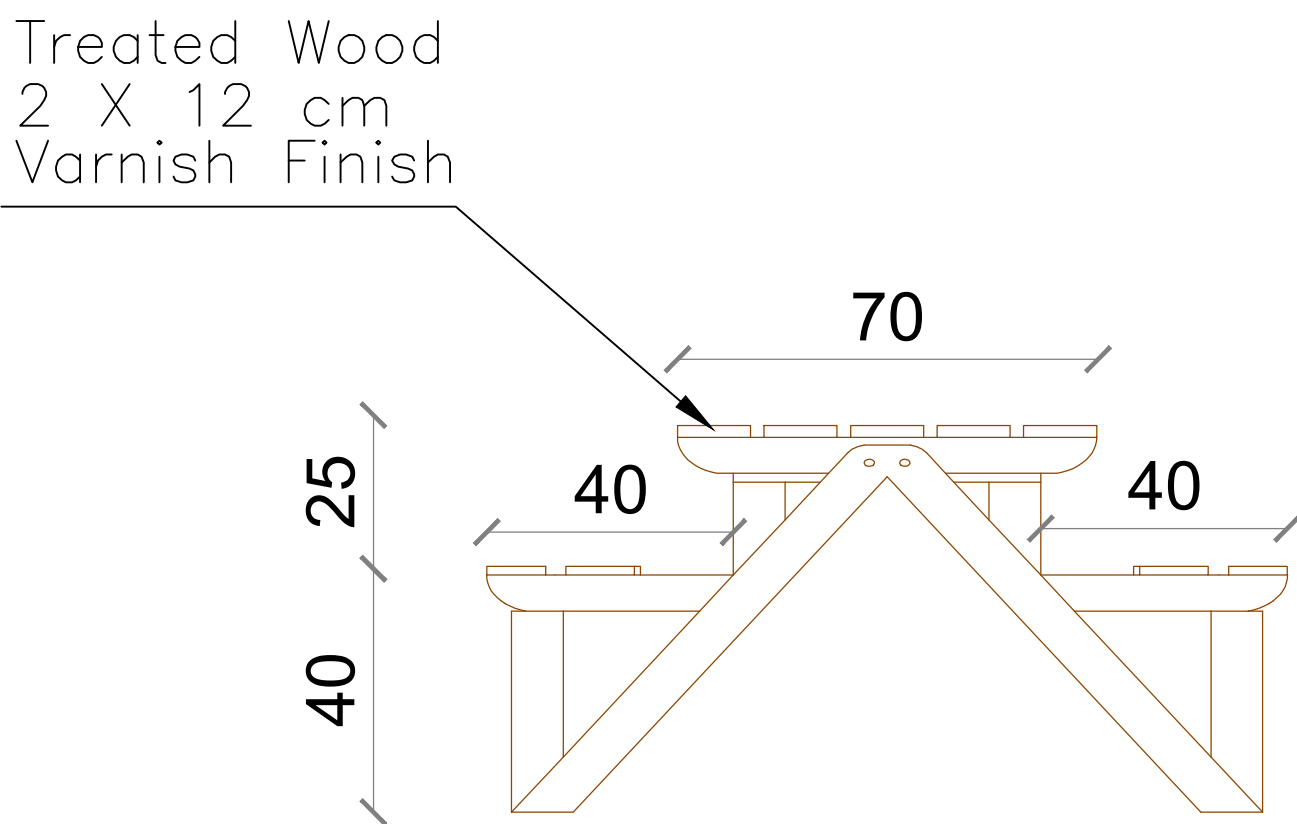
Sheet Name:	CONCRETE BENCH	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Scale: 1:100
Checked by:	NAME M.Arch. Ibrahim Alhindi	Drawing No: D09
Approved by:	NAME	
Coordinate Manager:	NAME	



12
A

WOODEN PICNIC TABLE – PLAN

Scale 1:25



12
B

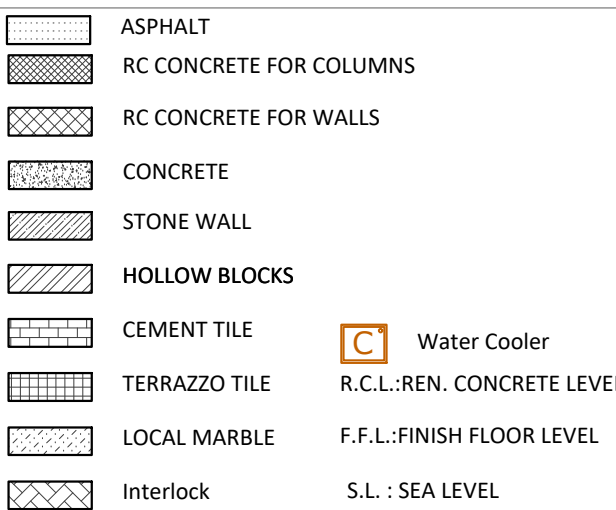
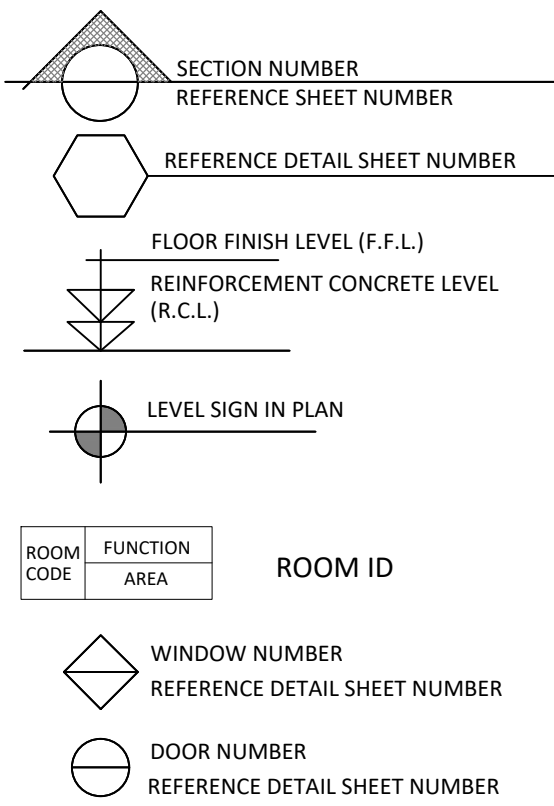
WOODEN PICNIC TABLE – ELEVATION

Scale 1:25

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



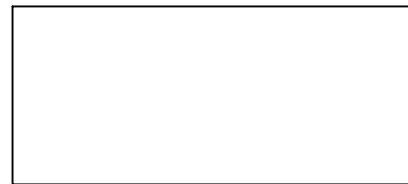
REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

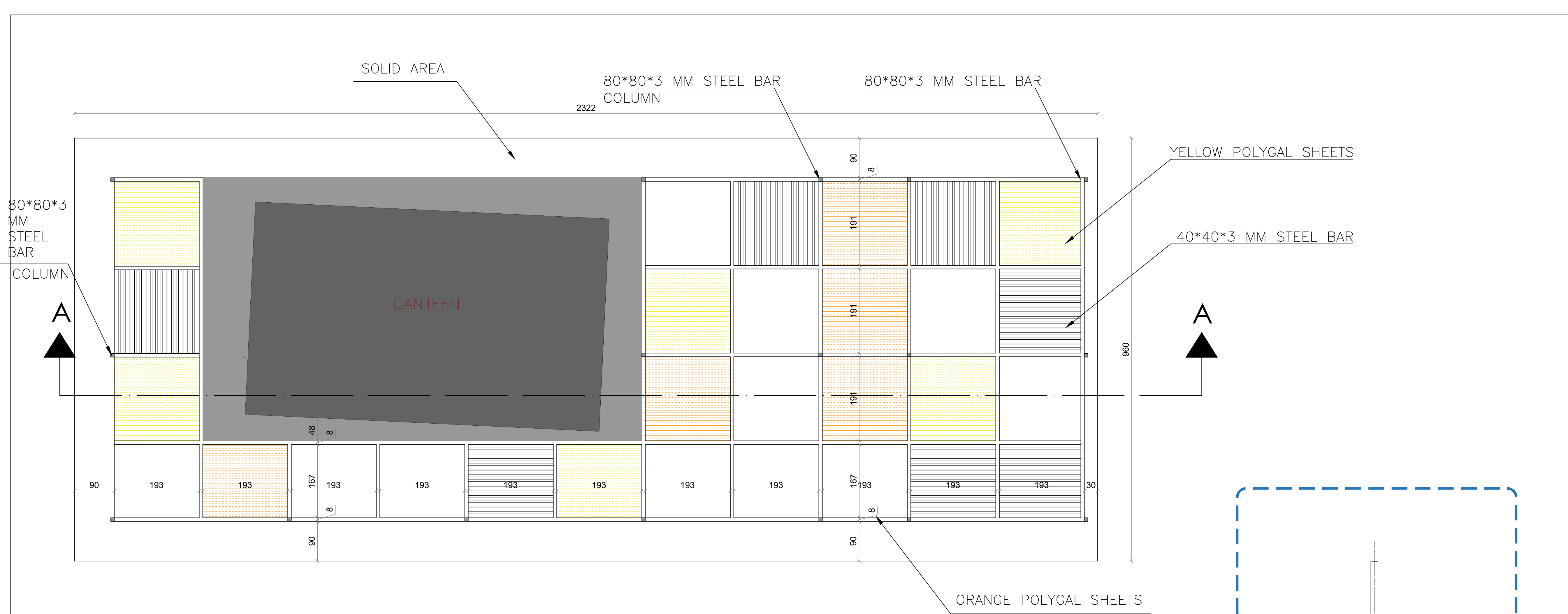
**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

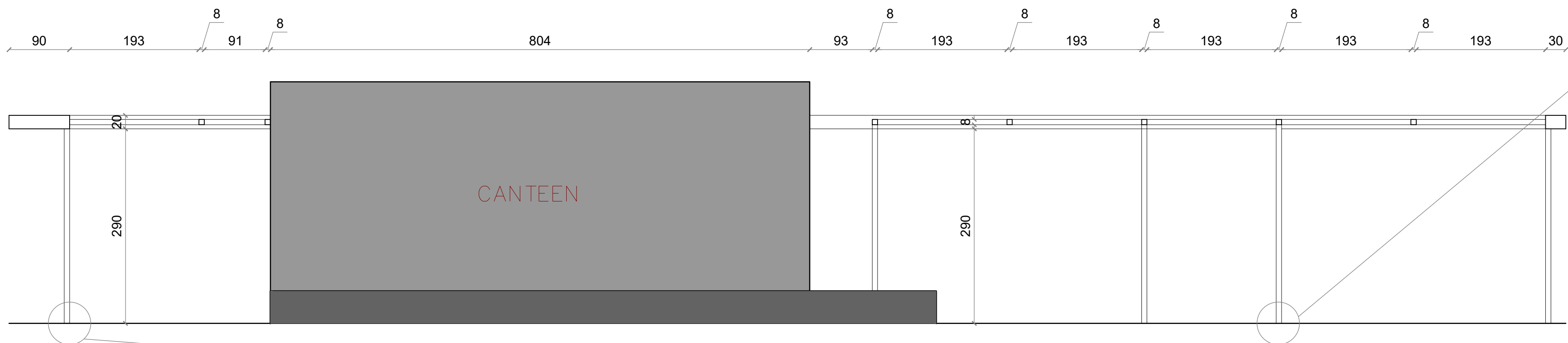
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Address email Tel. Fax:

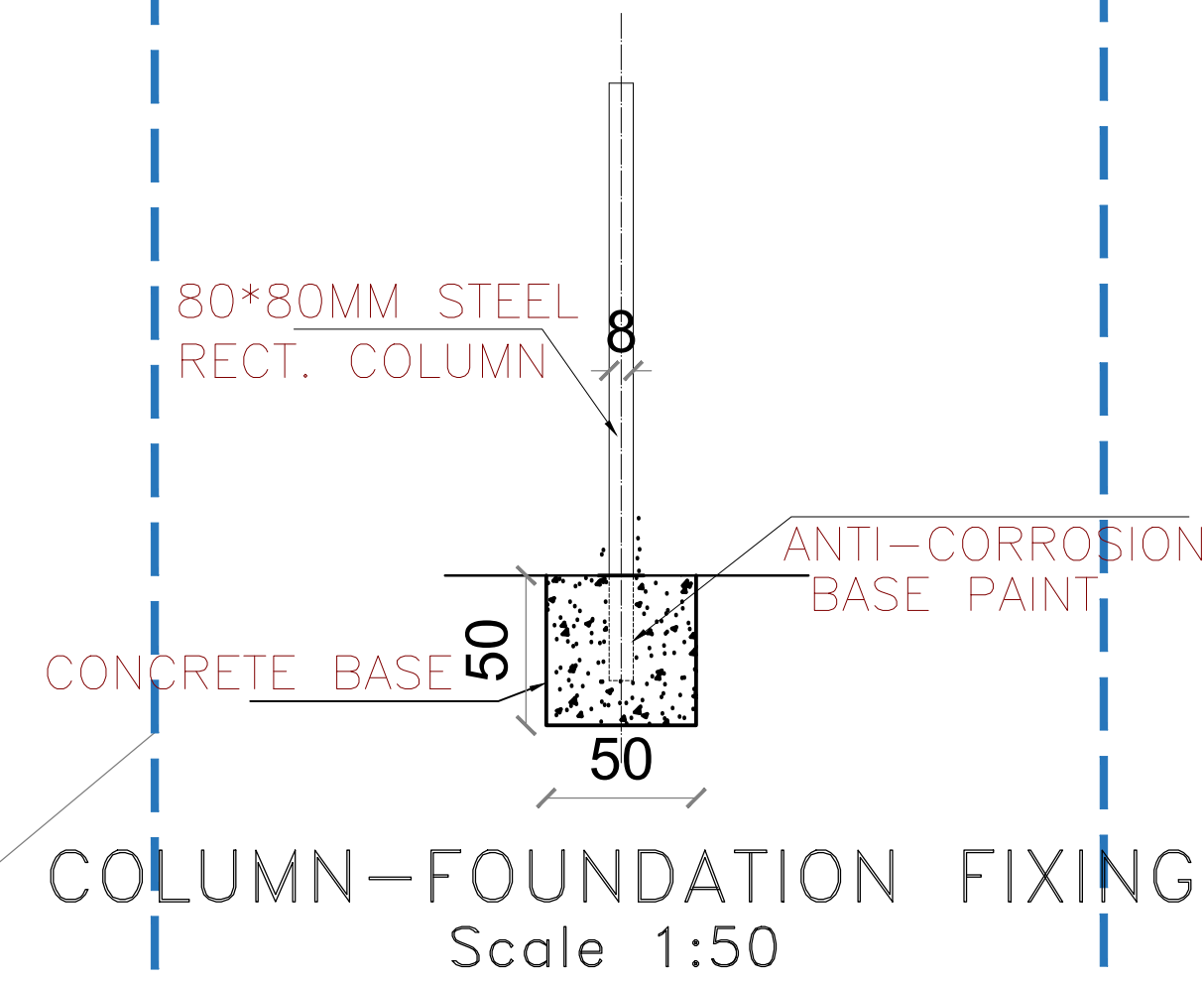
Sheet Name:	WOODEN PICNIC TABLE	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D10
Approved by:	NAME	
Coordinate Manager:	NAME	



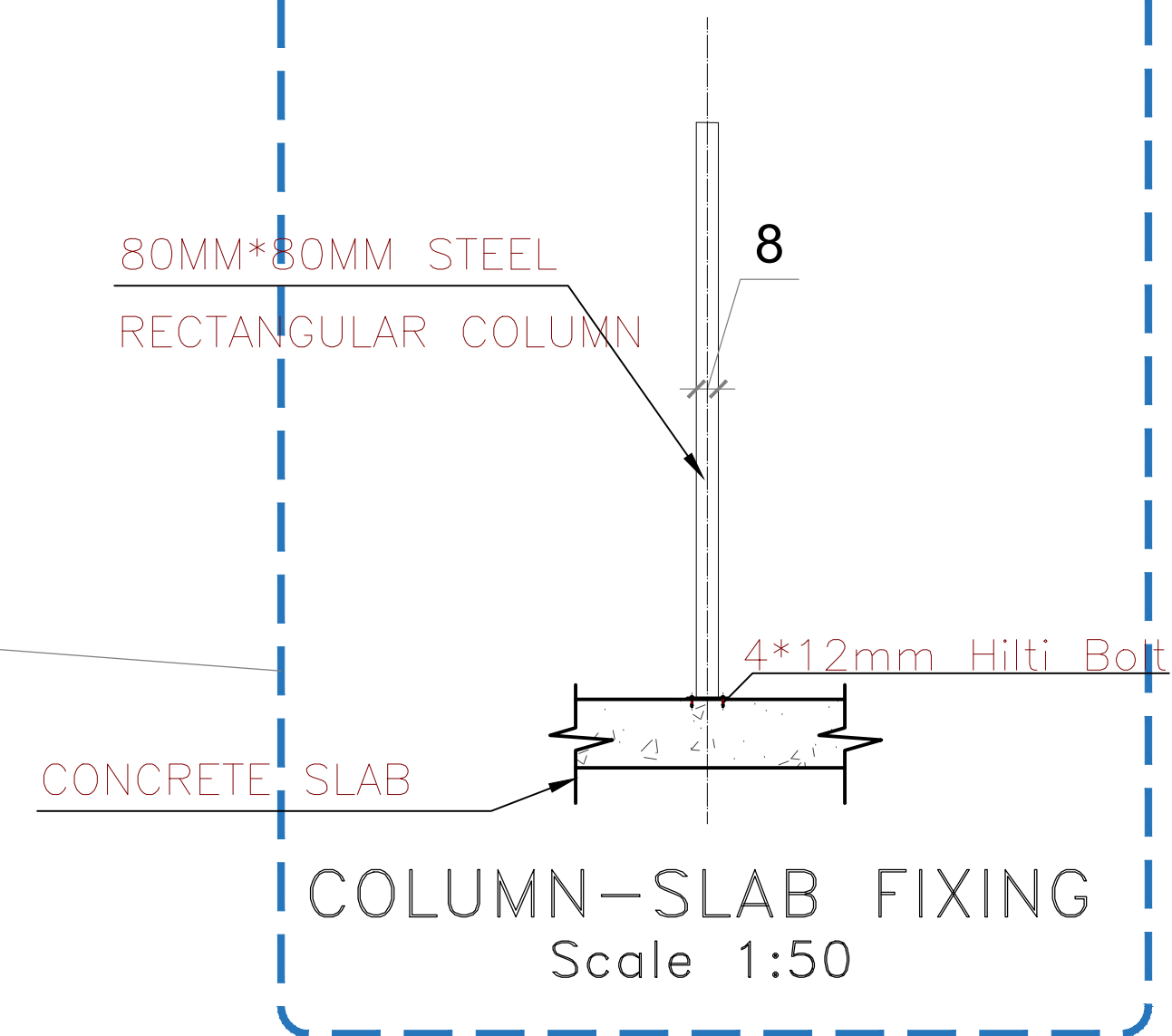
13
A
MAIN PERGOLA – PLAN
Scale 1:100



13
B
MAIN PERGOLA – SECTION A-A
Scale 1:100



COLUMN-Foundation Fixing
Scale 1:50

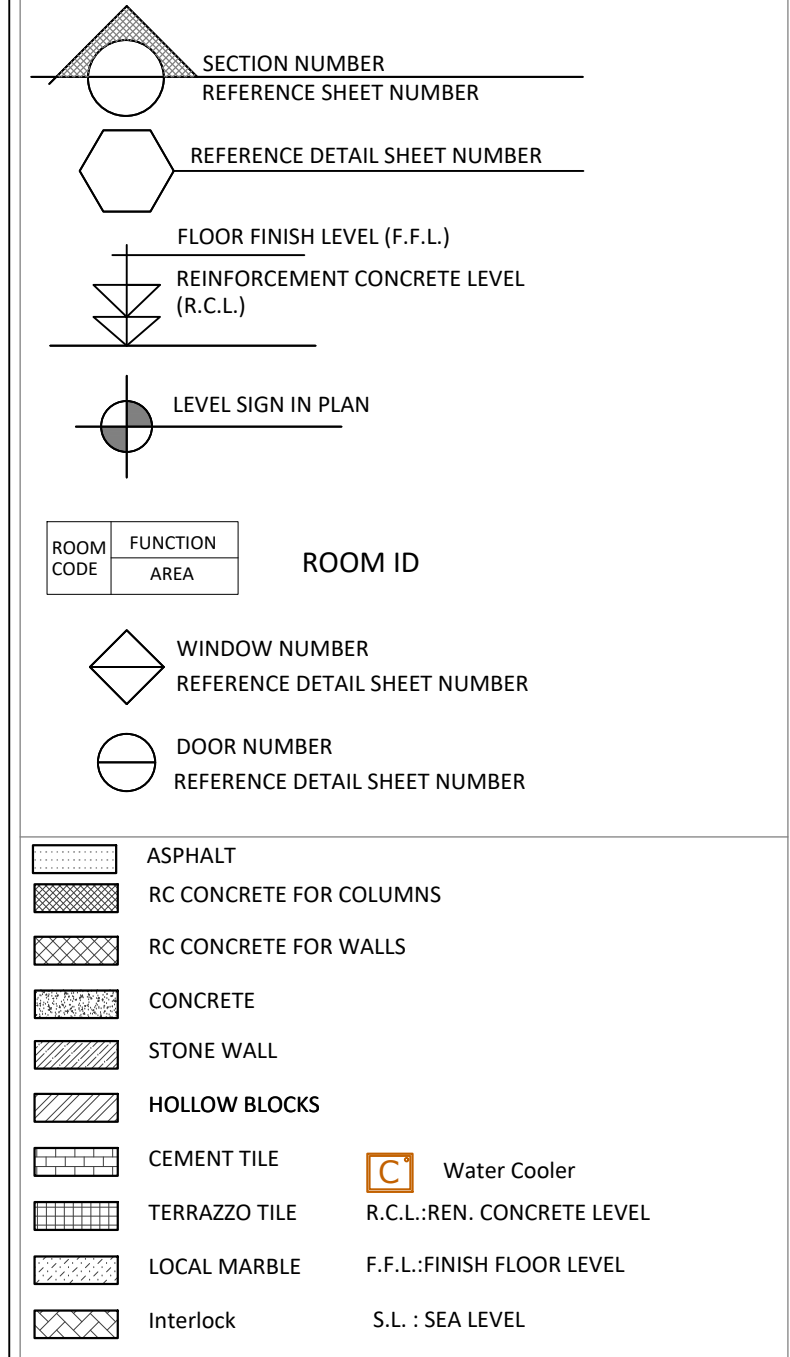


COLUMN-Slab Fixing
Scale 1:50

Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:

Project Title:

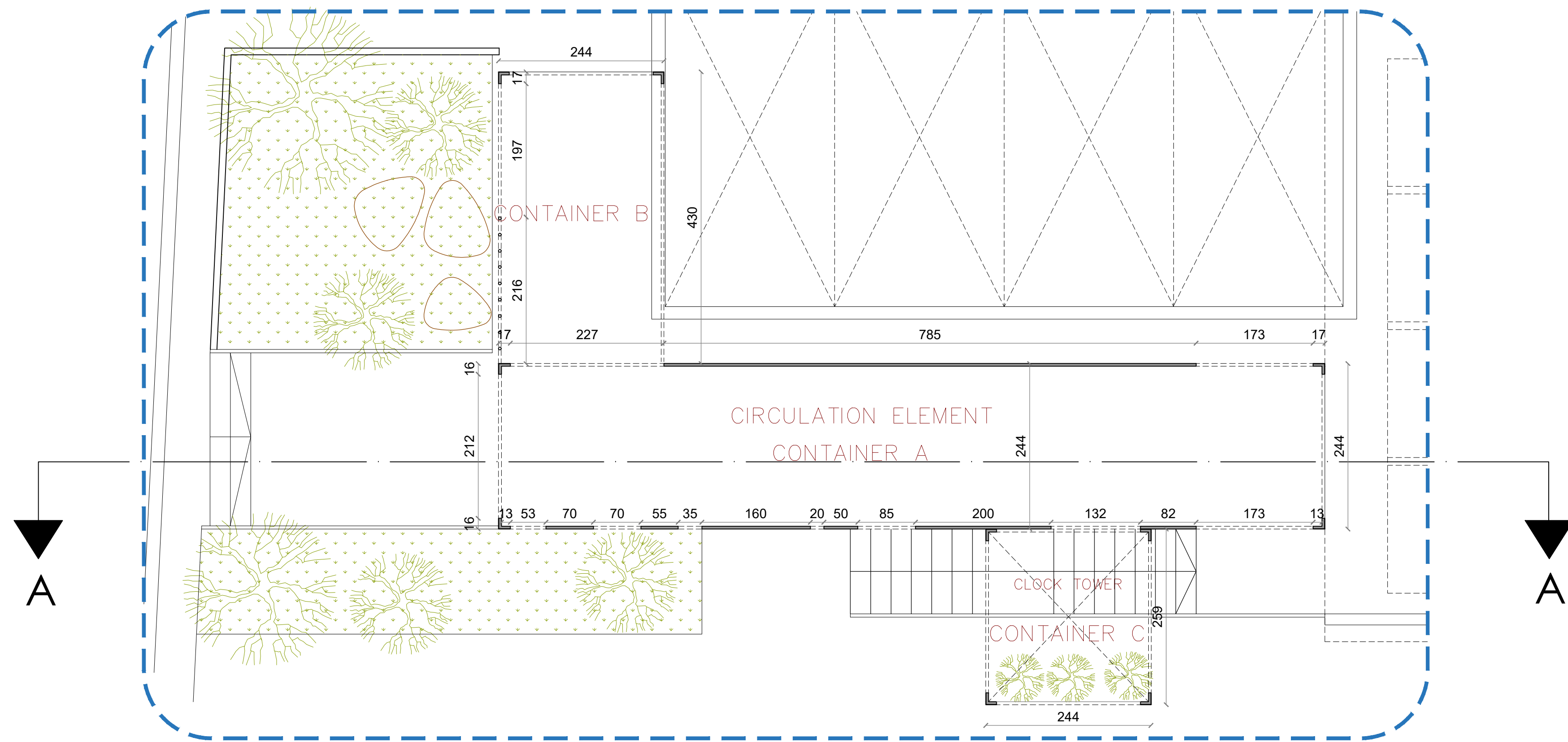
PUBLIC WORKS CONTRACT
for the Development of Semi-Public Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Address email Tel. Fax:

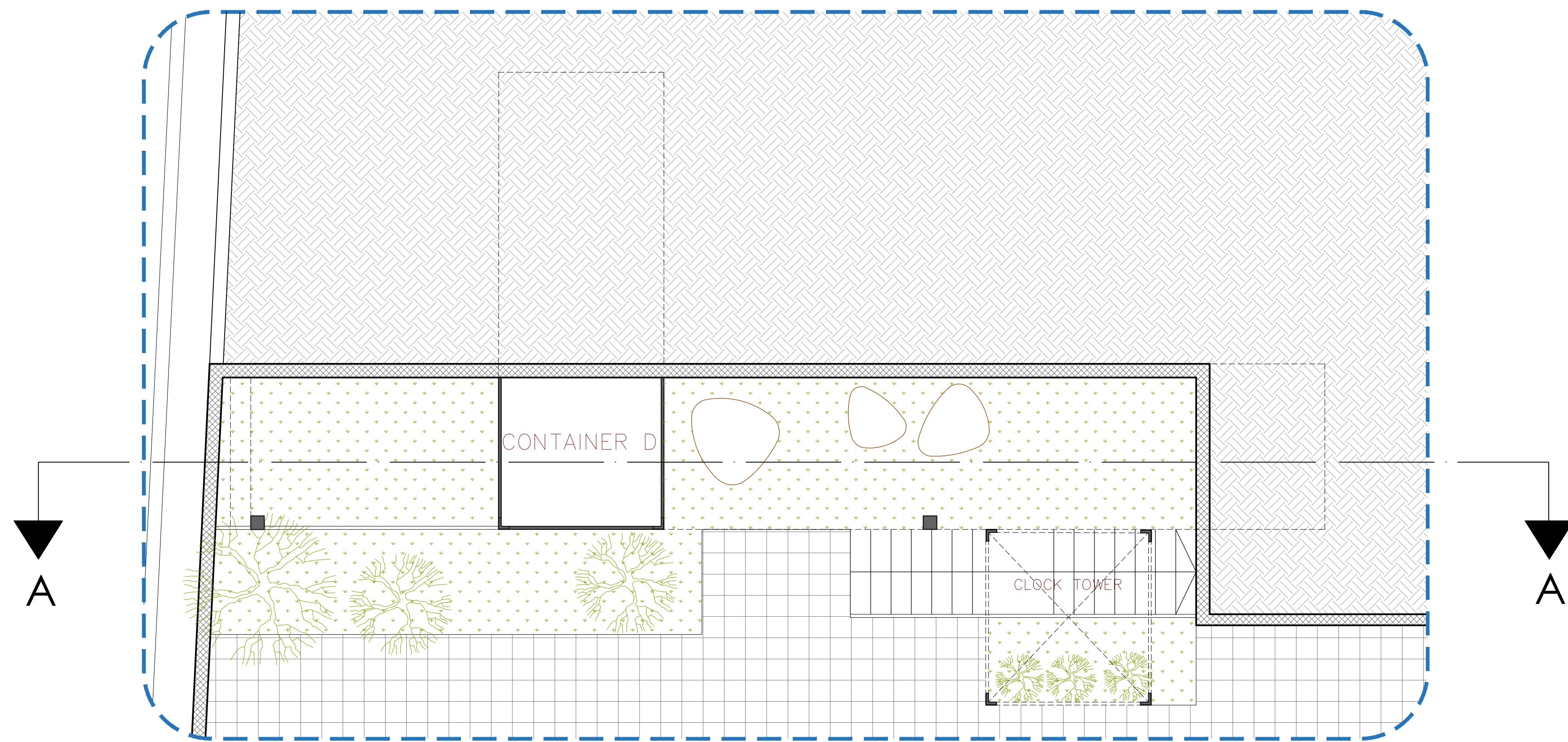
Sheet Name:	MAIN PERGOLA	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D11
Approved by:	NAME	
Coordinate Manager:	NAME	



14
A

CIRCULATION ELEMENT CONTAINER – PLAN FIRST FLOOR

Scale 1:100



14
B

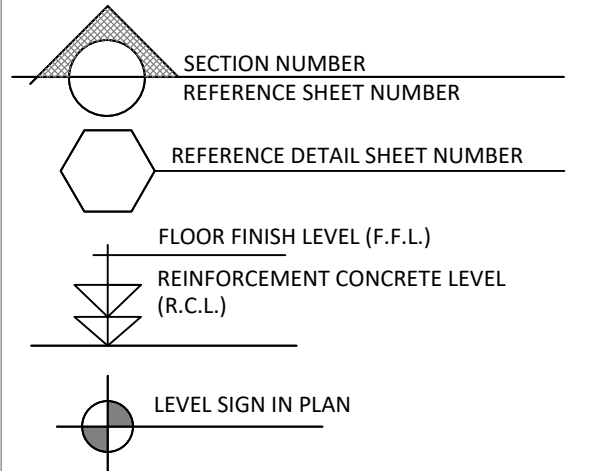
CIRCULATION ELEMENT CONTAINER – PLAN GROUND FLOOR

Scale 1:100

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA	ROOM ID

	ASPHALT
	RC CONCRETE FOR COLUMNS
	RC CONCRETE FOR WALLS
	CONCRETE
	STONE WALL
	HOLLOW BLOCKS
	CEMENT TILE
	TERRAZZO TILE
	LOCAL MARBLE
	Interlock
	Water Cooler
	R.C.L.:REN. CONCRETE LEVEL
	F.F.L.:FINISH FLOOR LEVEL
	S.L. : SEA LEVEL

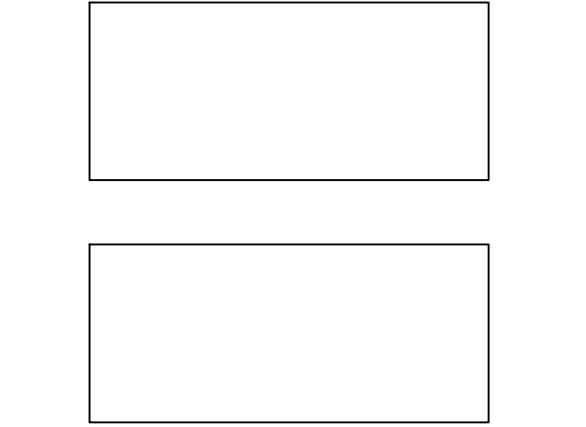
REVISIONS

NO.	DRAWINGS	DATE
(1)		
(2)		
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Contracting Authority:



Funded By:



Project Title:

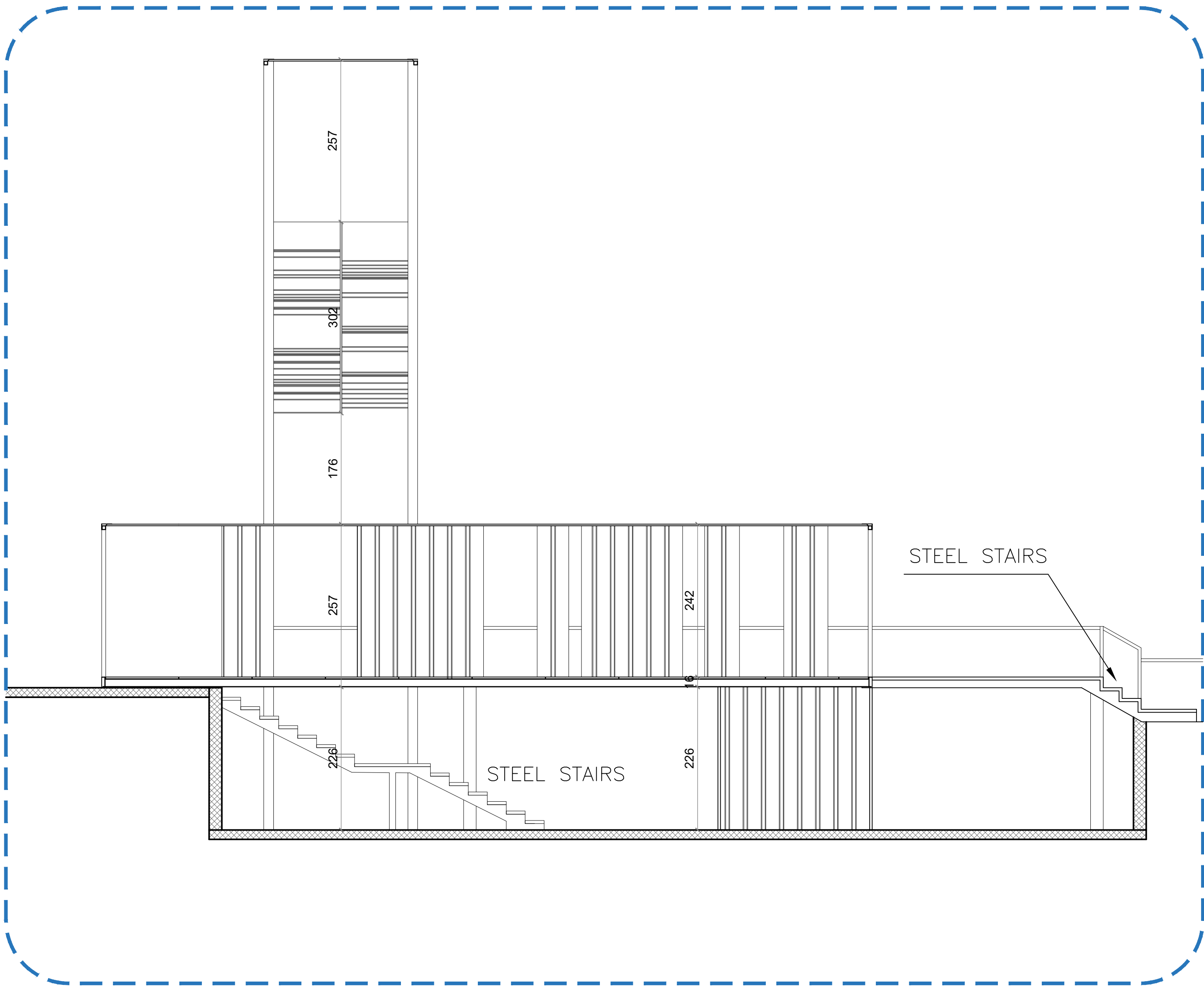
PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Address email Tel. Fax:

Sheet Name:	CIRCULATION ELEMENT	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D12
Approved by:	NAME	
Coordinate Manager:	NAME	



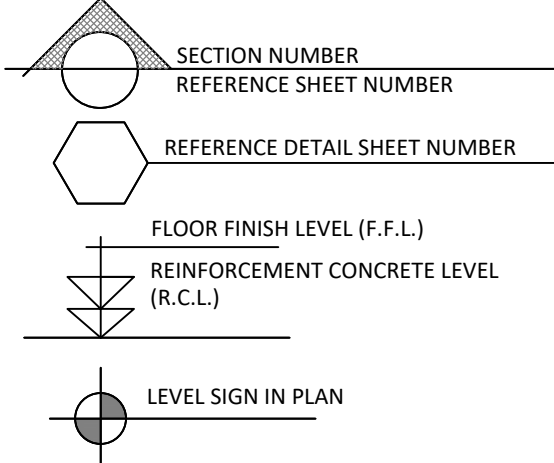
14
C

CIRCULATION ELEMENT CONTAINER – SECTION A–A
Scale 1:100

Notes

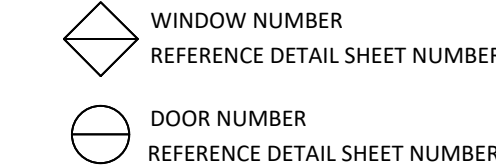
- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA
-----------	---------------

ROOM ID



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	TERRAZZO TILE
LOCAL MARBLE	Interlock
Water Cooler	R.C.L.:REN. CONCRETE LEVEL
F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL

REVISIONS

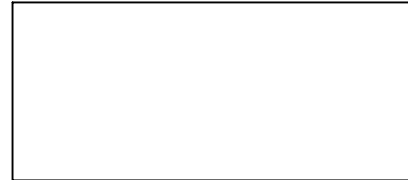
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

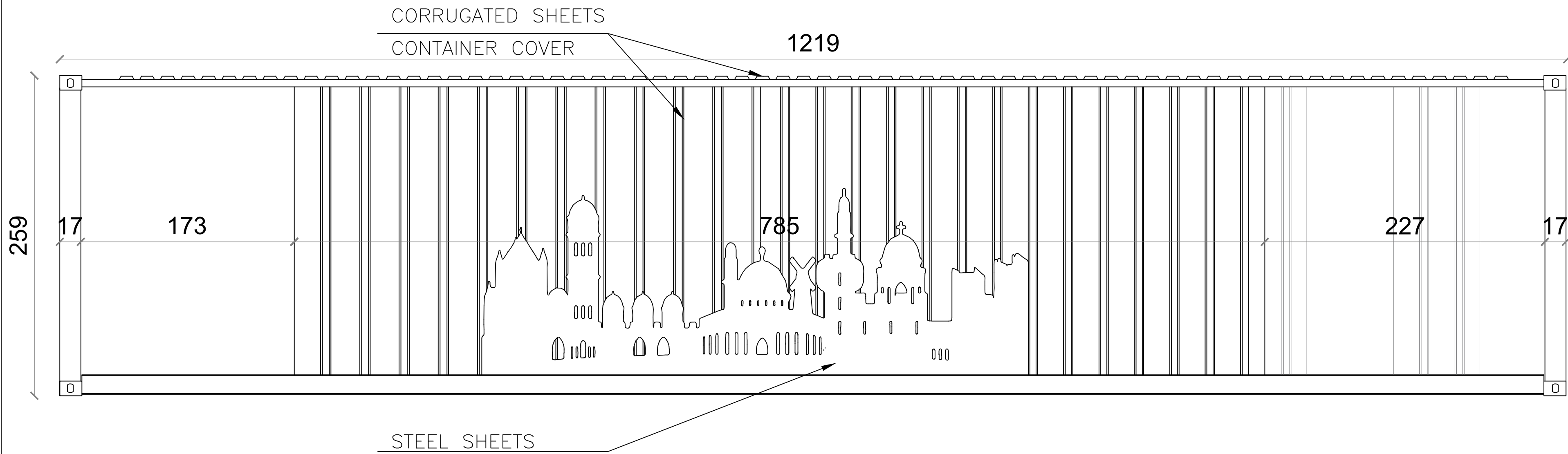
Designed by:

Address
email

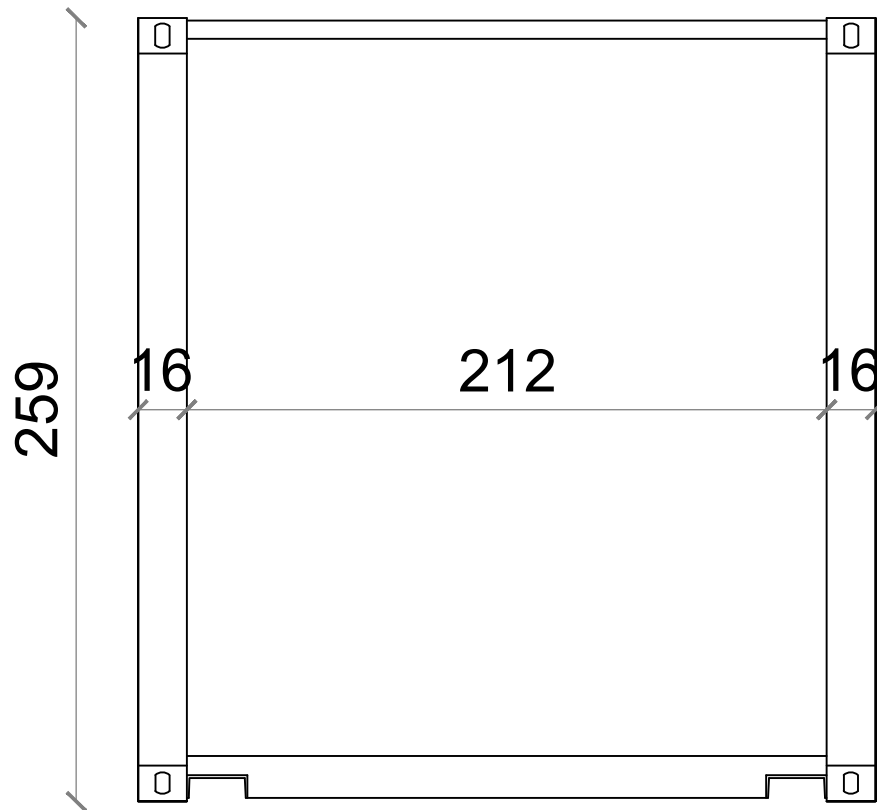
Tel.
Fax:

Sheet Name:	CIRCULATION ELEMENT	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D13
Approved by:	NAME	
Coordinate Manager:	NAME	

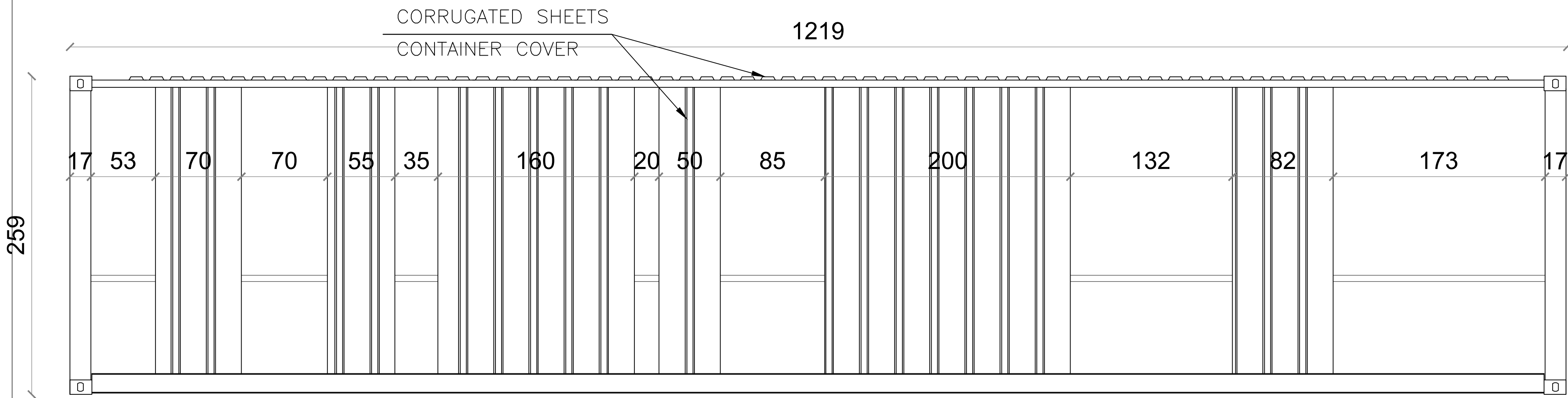
DD15 CONTAINER A (40FT)



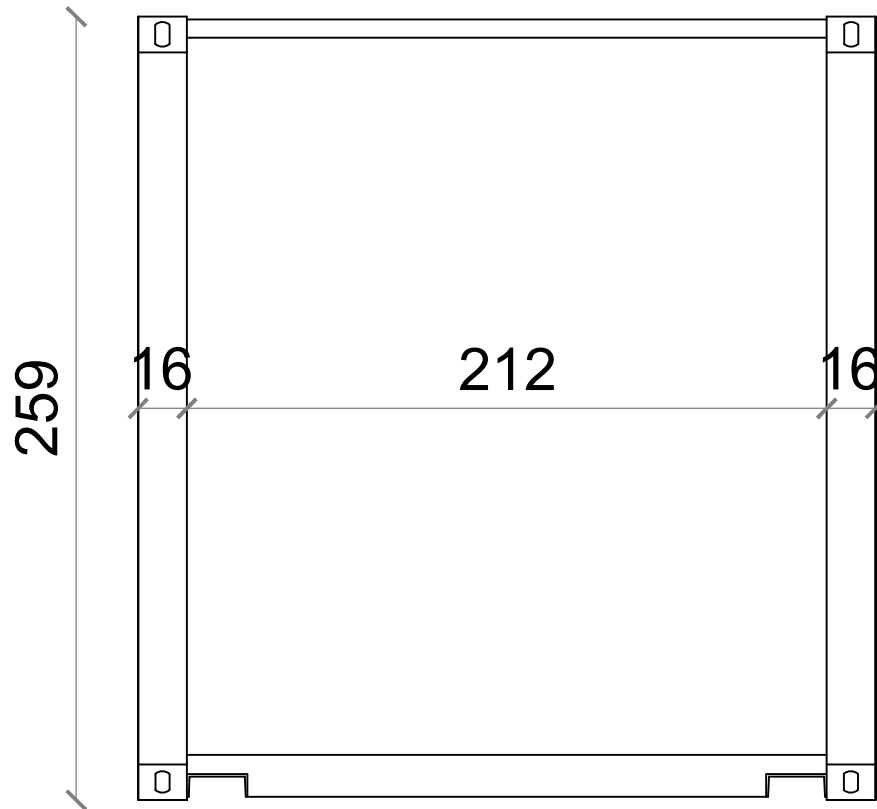
15
A
CONTAINER A – ELEVATION 1
Scale 1:50



15
C
CONTAINER A – ELEVATION 3
Scale 1:50



15
B
CONTAINER A – ELEVATION 2
Scale 1:50

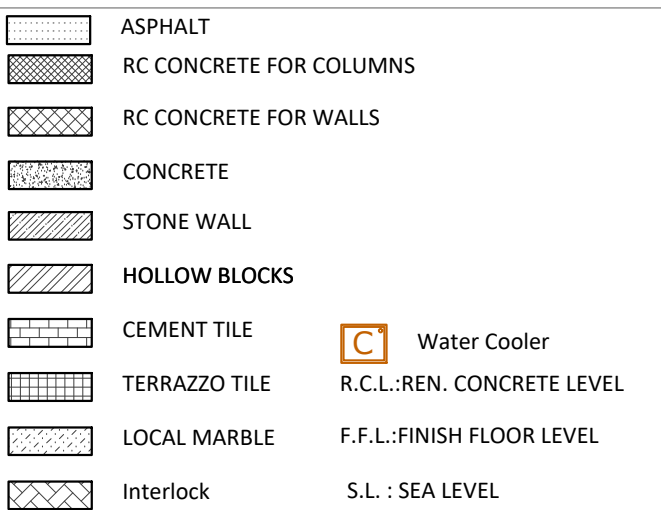
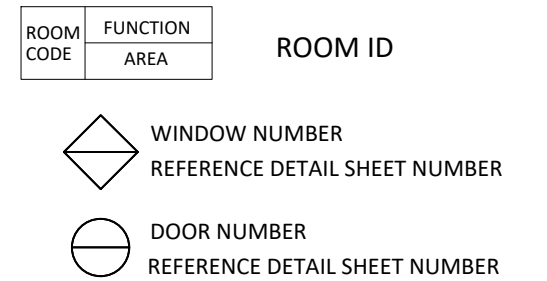
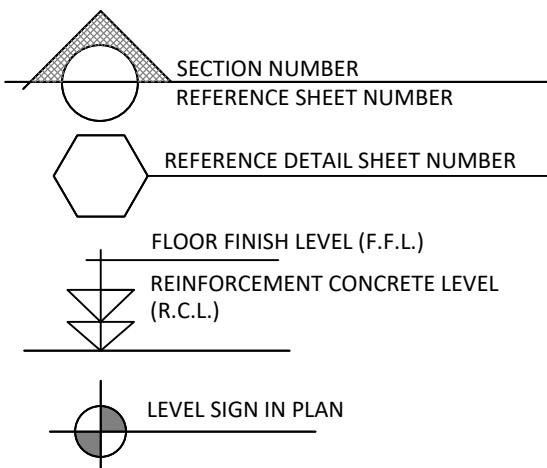


15
D
CONTAINER A – ELEVATION 4
Scale 1:50

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

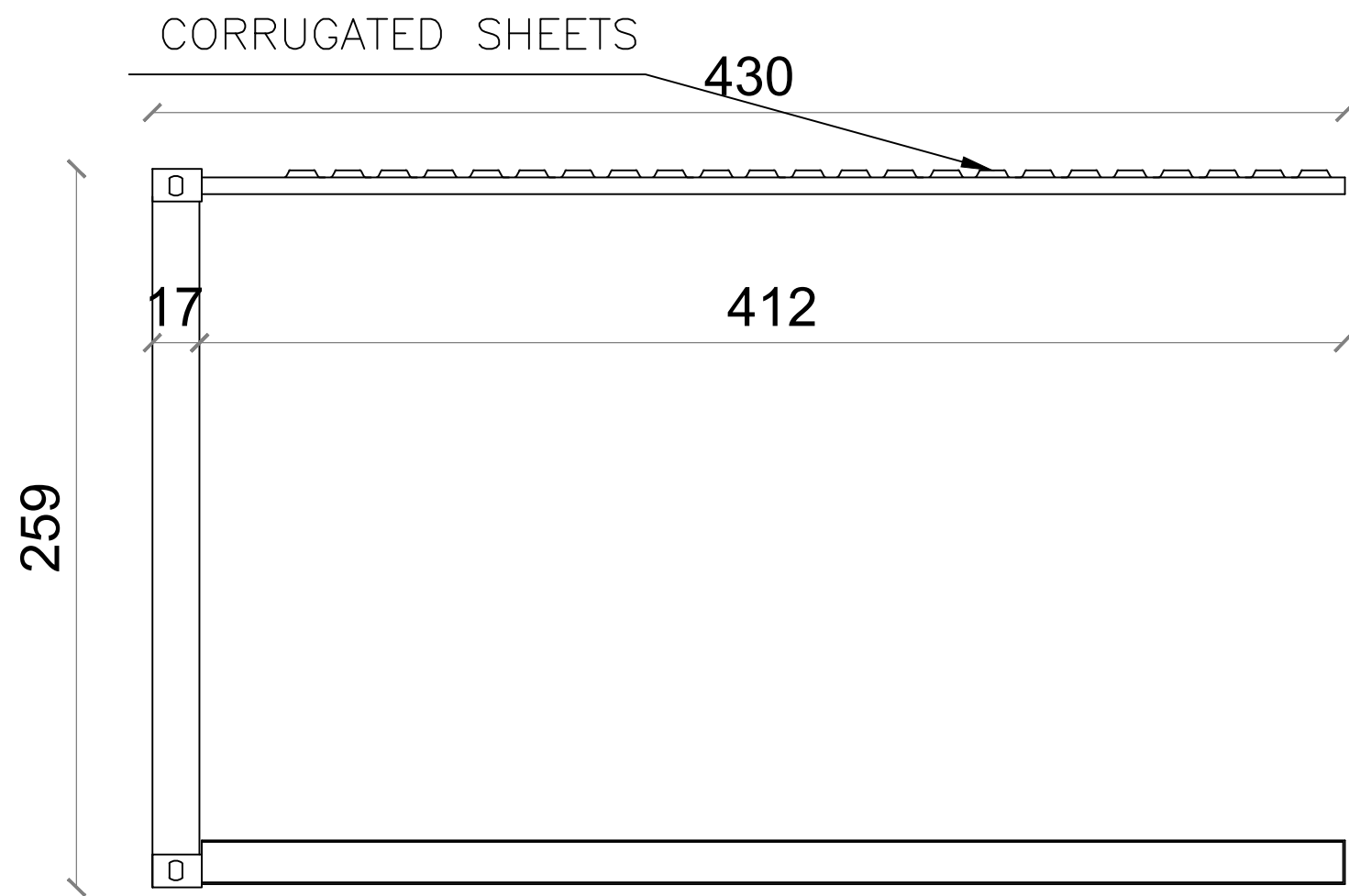
Designed by:

Address
email

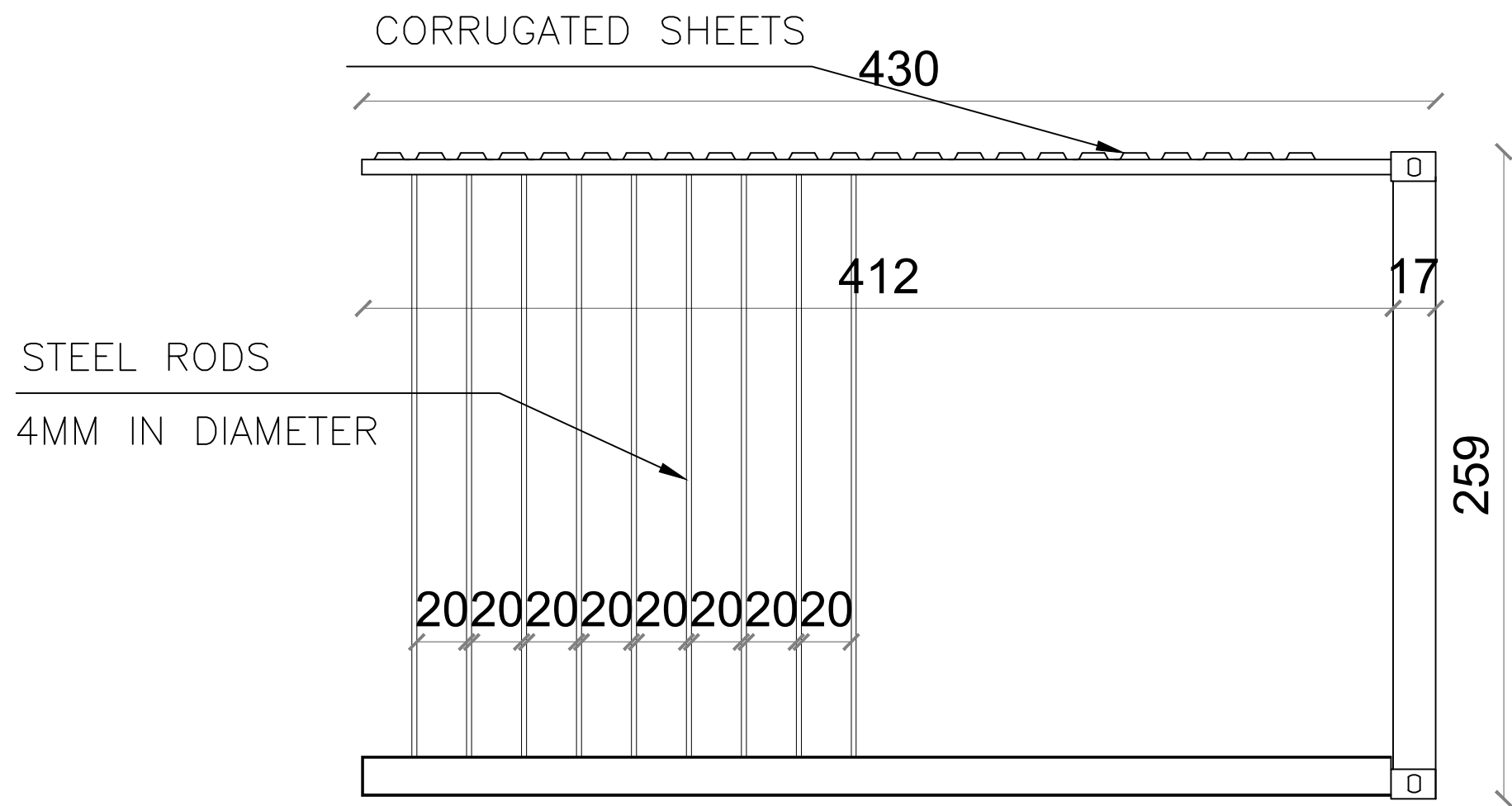
Tel.
Fax:

Sheet Name:	CONTAINER A	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D14
Approved by:	NAME	
Coordinate Manager:	NAME	

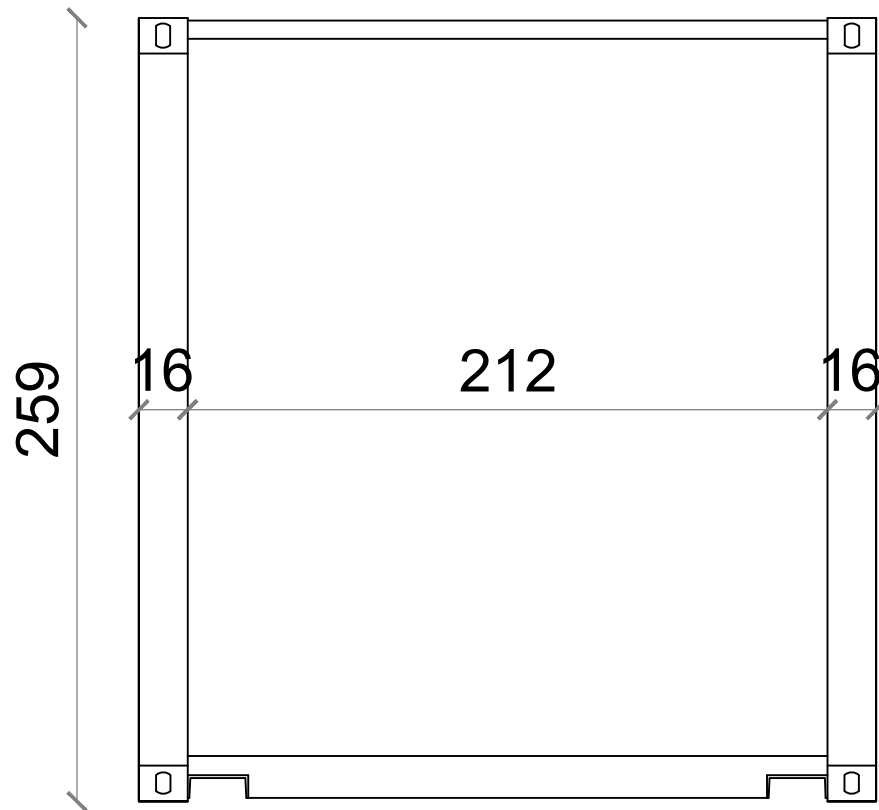
DD16 CONTAINER B (40FT/HALF)



16 CONTAINER B – ELEVATION 1
A Scale 1:50



16 CONTAINER A – ELEVATION 2
B Scale 1:50

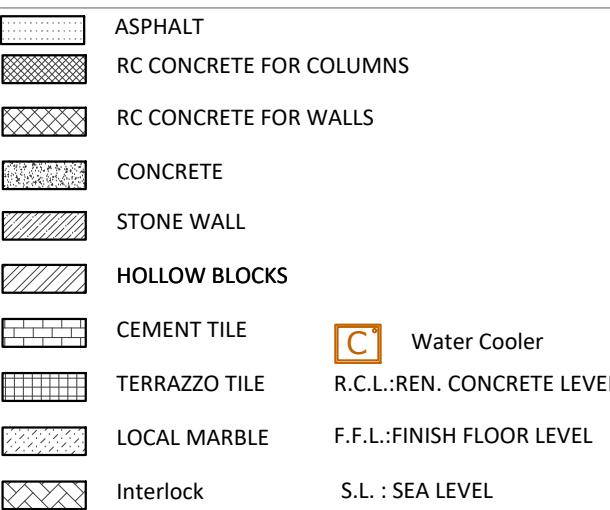
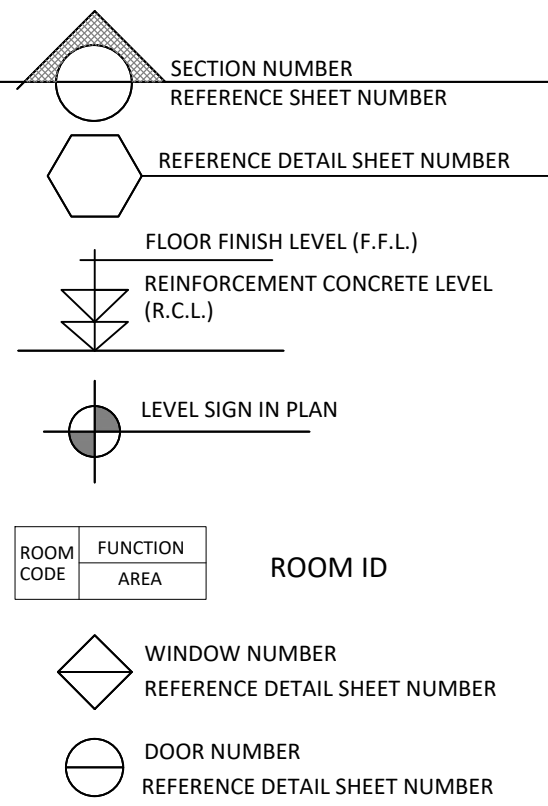


16 CONTAINER B – ELEVATION 3
C Scale 1:50

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

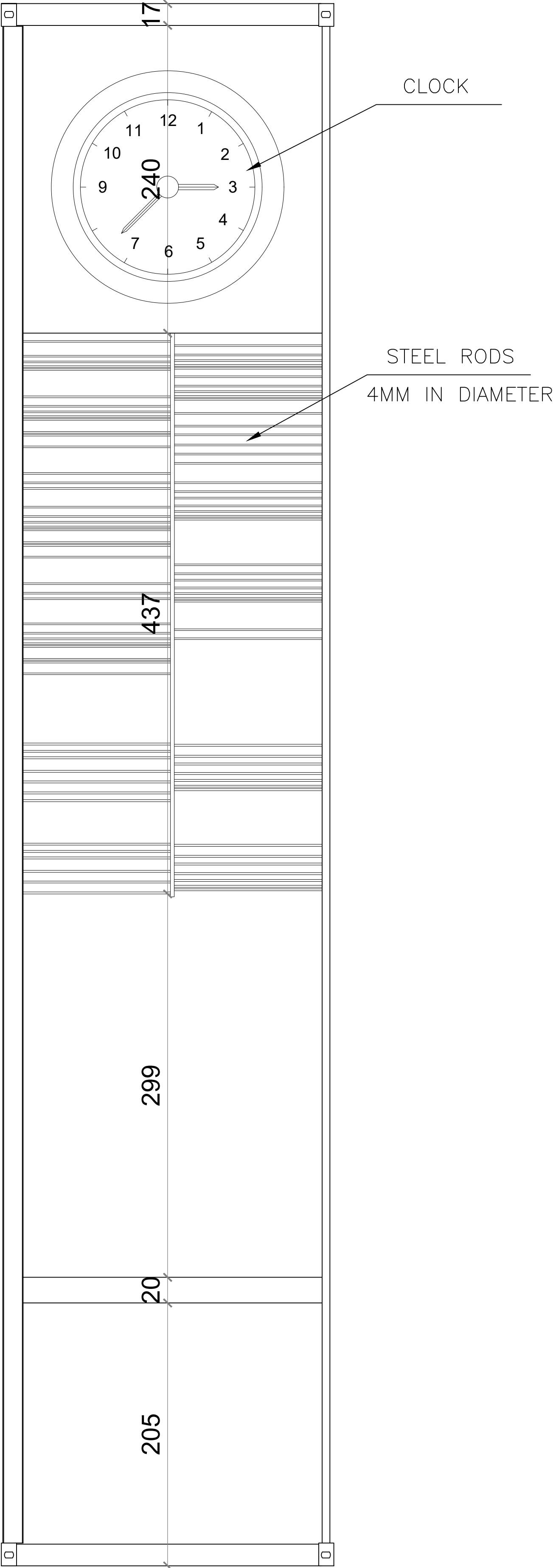
Designed by:

Address
email

Tel.
Fax:

Sheet Name:	CONTAINER B	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D15
Approved by:	NAME	
Coordinate Manager:	NAME	

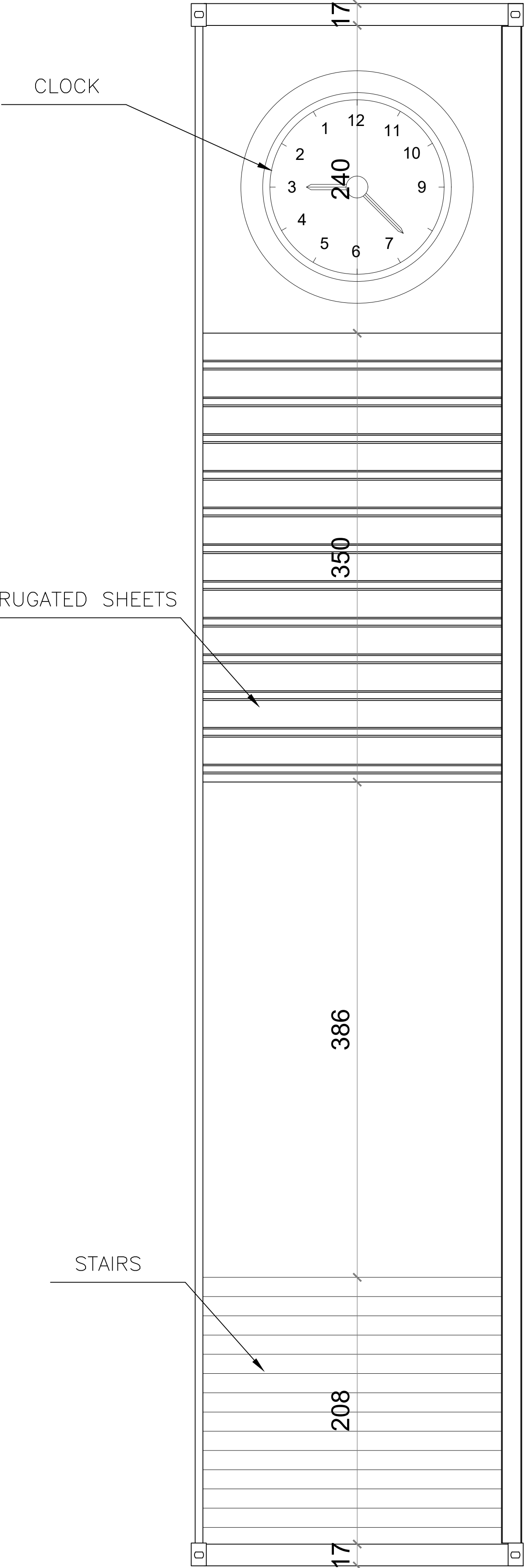
DD17 CONTAINER C CLOCK TOWER (40FT)



17
A

CONTAINER C – ELEVATION 1

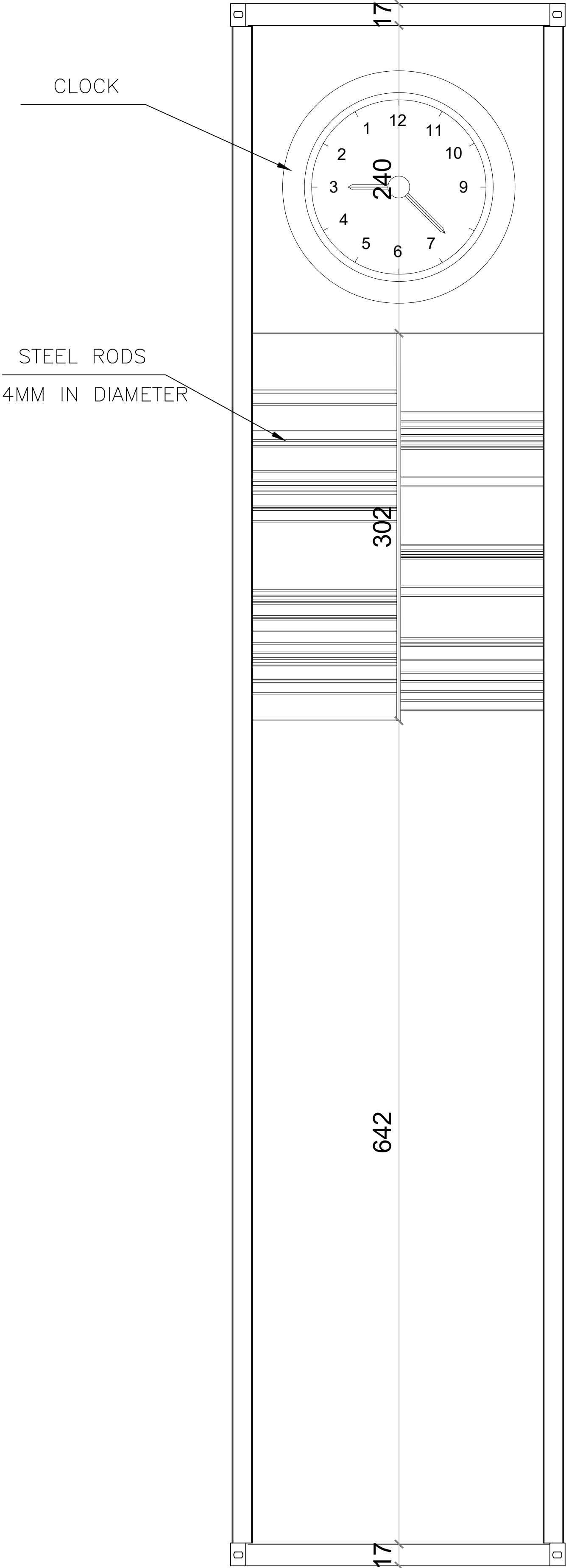
Scale 1:50



17
B

CONTAINER C – ELEVATION 2

Scale 1:50



17
C

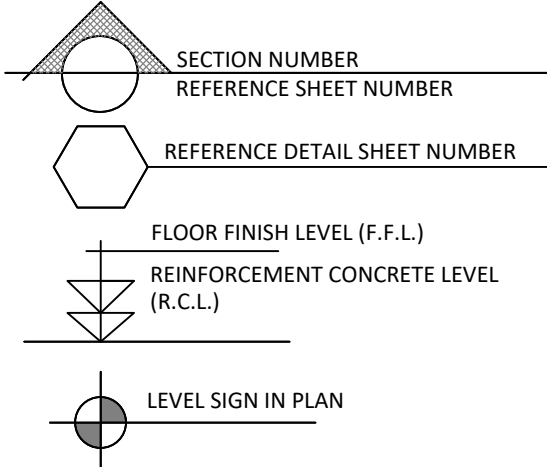
CONTAINER C – ELEVATION 3

Scale 1:50

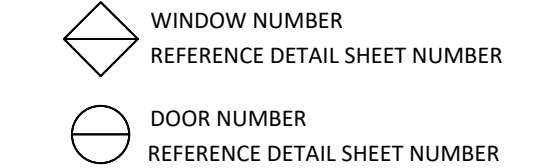
Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA	ROOM ID
-----------	---------------	---------



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	TERRAZZO TILE
LOCAL MARBLE	Interlock
Water Cooler	R.C.L.:REN. CONCRETE LEVEL
F.F.L.:FINISH FLOOR LEVEL	S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

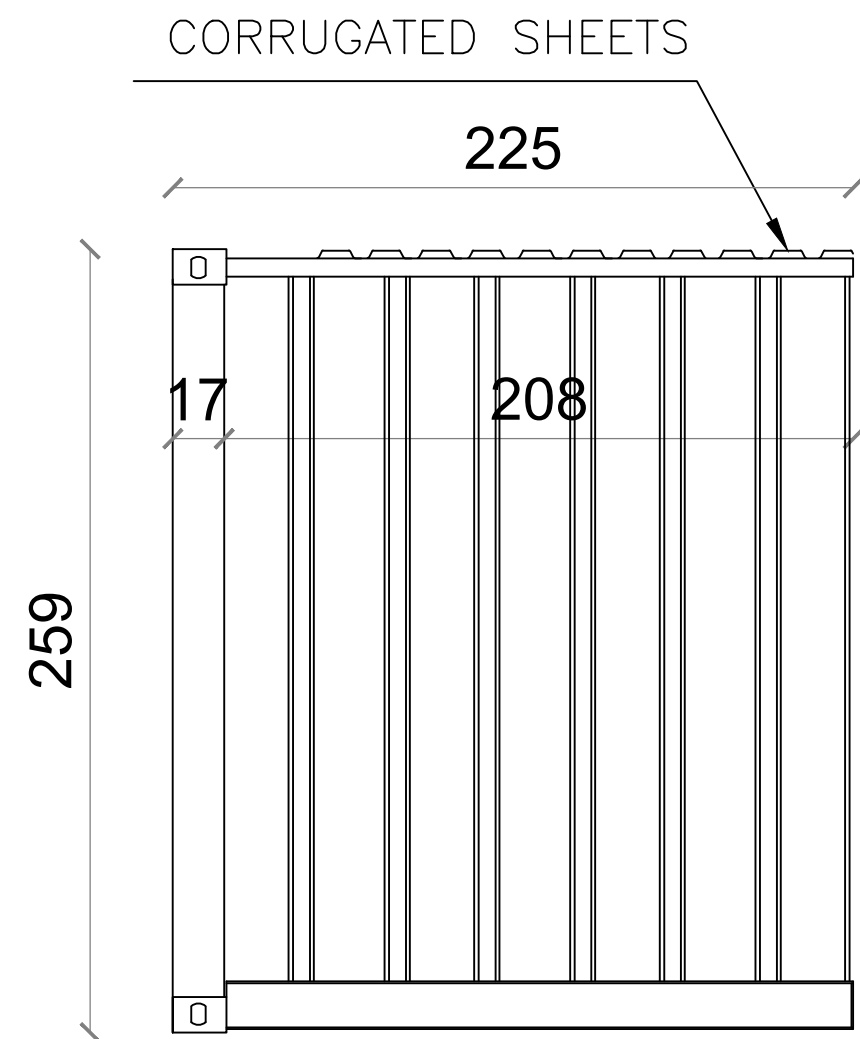
**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Address email	Tel. Fax:	Date: Jan 2023
Sheet Name:	CONTAINER C	
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D16
Approved by:	NAME	
Coordinate Manager:	NAME	

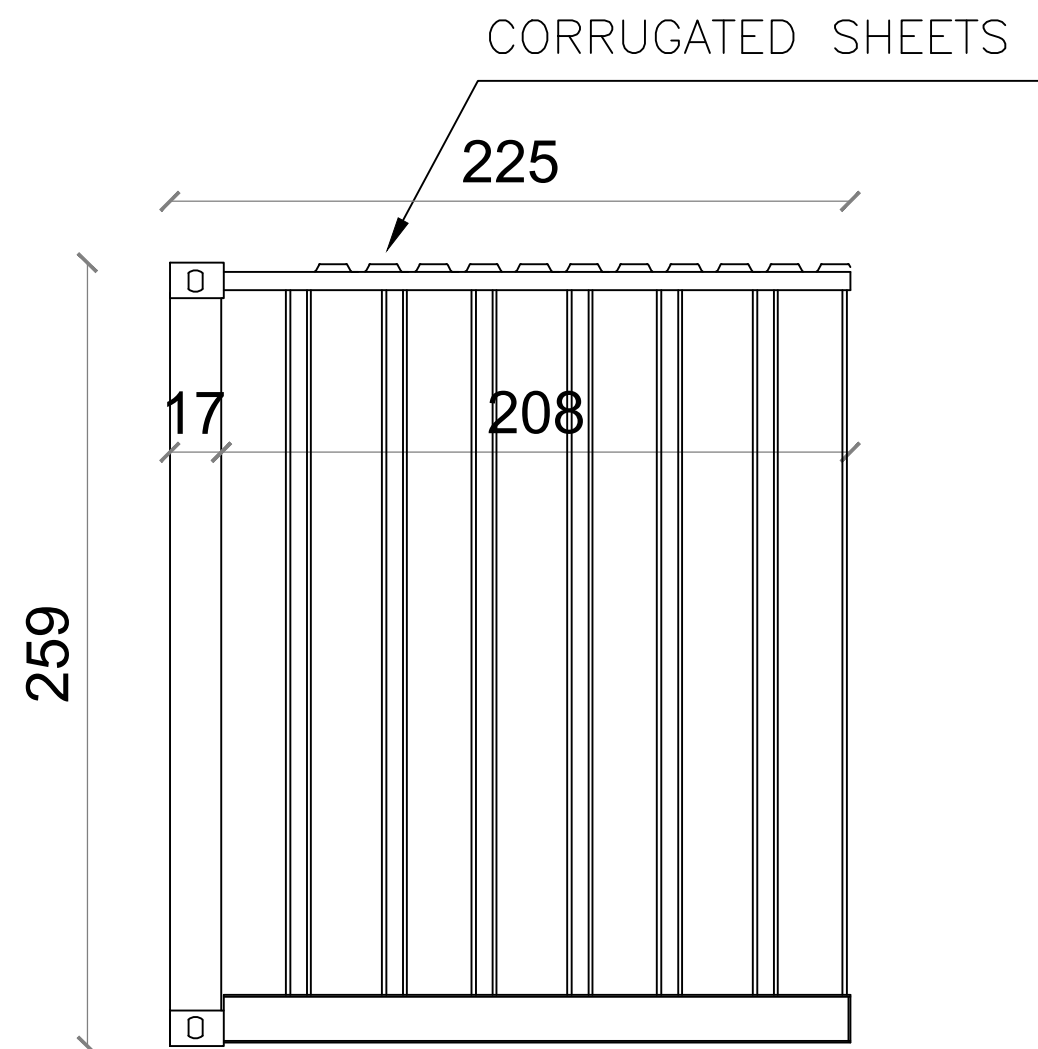
DD18 CONTAINER D (40FT/HALF)



18
A

CONTAINER D – ELEVATION 1

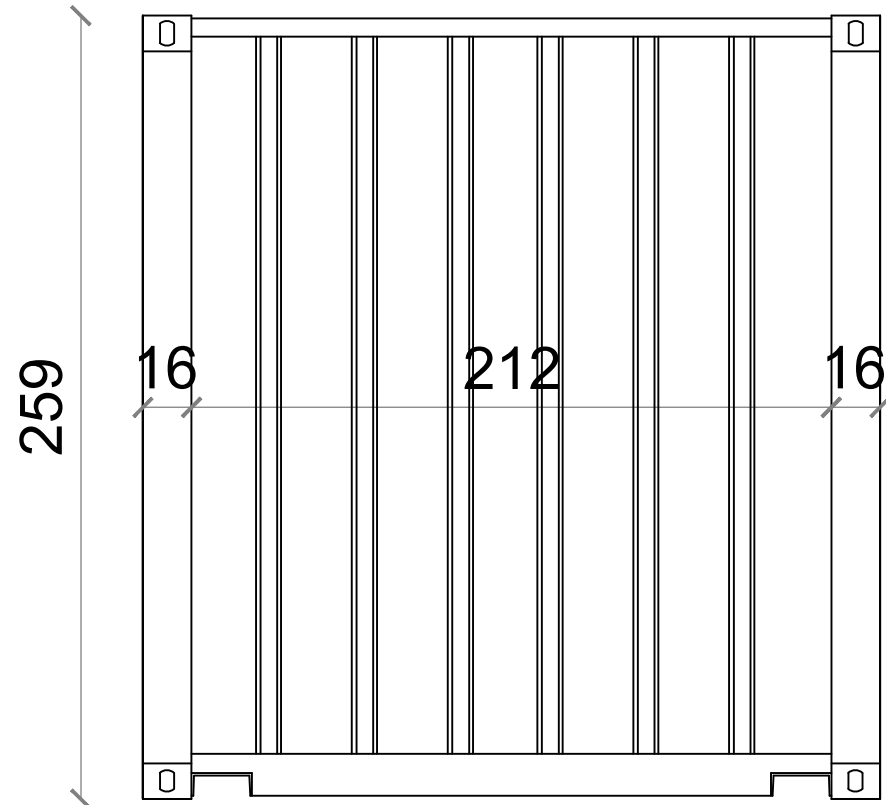
Scale 1:50



18
B

CONTAINER D – ELEVATION 2

Scale 1:50



18
C

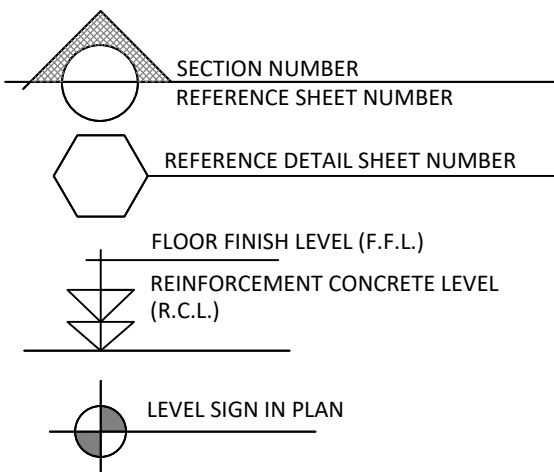
CONTAINER D – ELEVATION 3

Scale 1:50

Notes

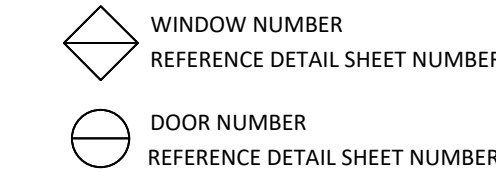
- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ROOM CODE	FUNCTION AREA
-----------	---------------

ROOM ID



ASPHALT	RC CONCRETE FOR COLUMNS	Water Cooler
RC CONCRETE FOR WALLS	CONCRETE	R.C.L.:REN. CONCRETE LEVEL
STONE WALL	HOLLOW BLOCKS	F.F.L.:FINISH FLOOR LEVEL
CEMENT TILE	TERRAZZO TILE	S.L. : SEA LEVEL
LOCAL MARBLE	Interlock	

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

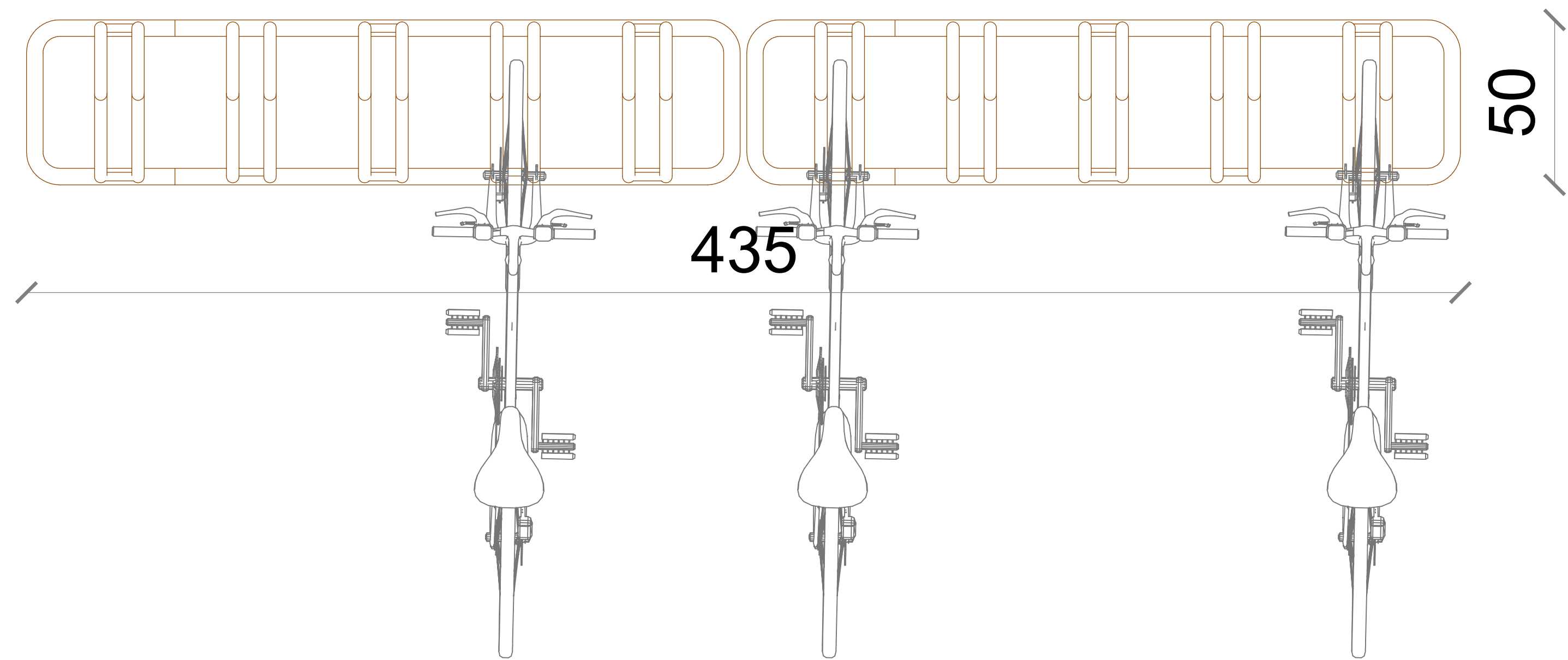
Reference No.: PZA170421T-10029

Designed by:

Address
email

Tel.
Fax:

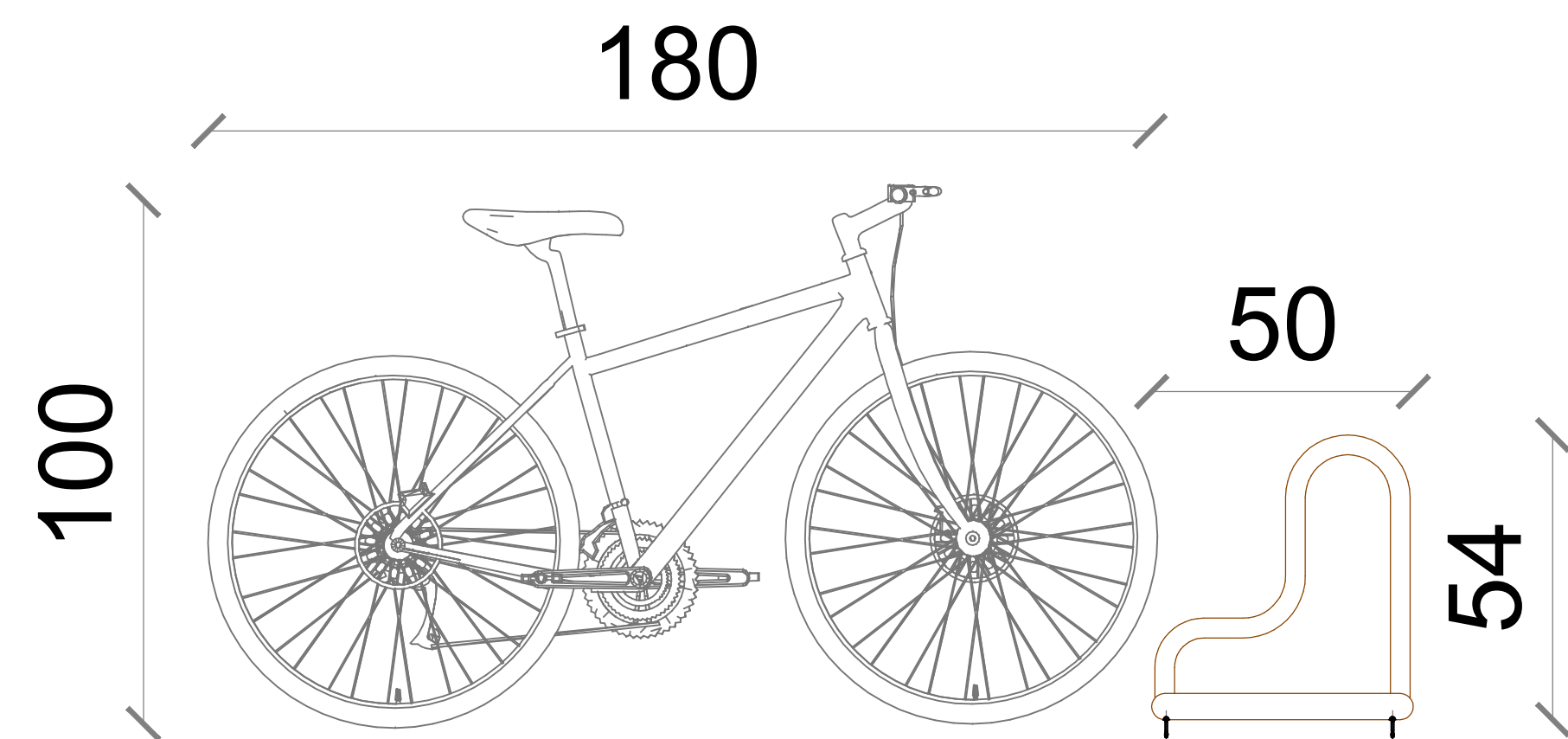
Sheet Name:	CONTAINER D	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D17
Approved by:	NAME	
Coordinate Manager:	NAME	



19
A

BIKE PARKING—PLAN

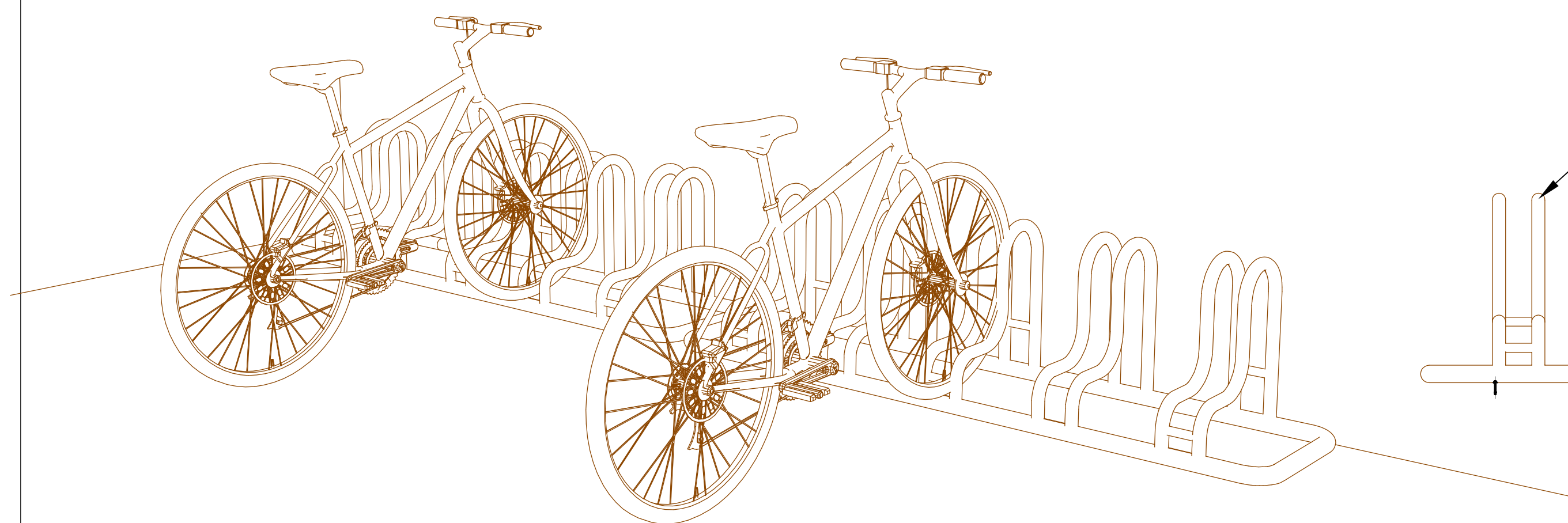
Scale 1:25



19
B

BIKE PARKING—SIDE ELEVATION

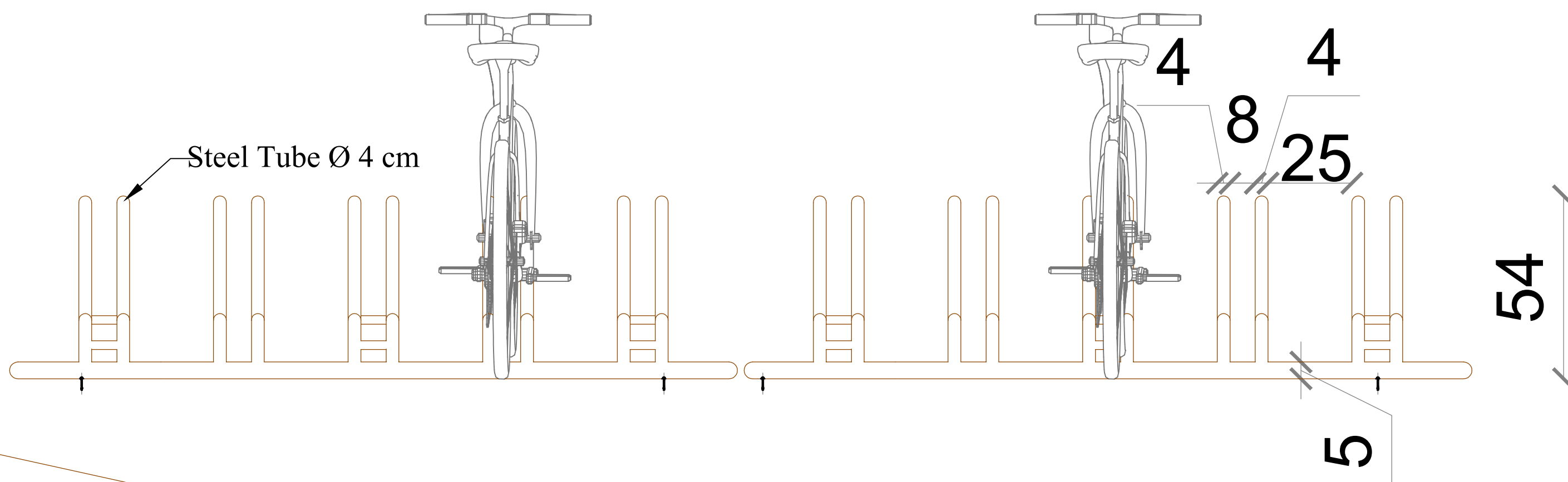
Scale 1:25



19
C

BIKE PARKING—3D

NOT TO SCALE



19
D

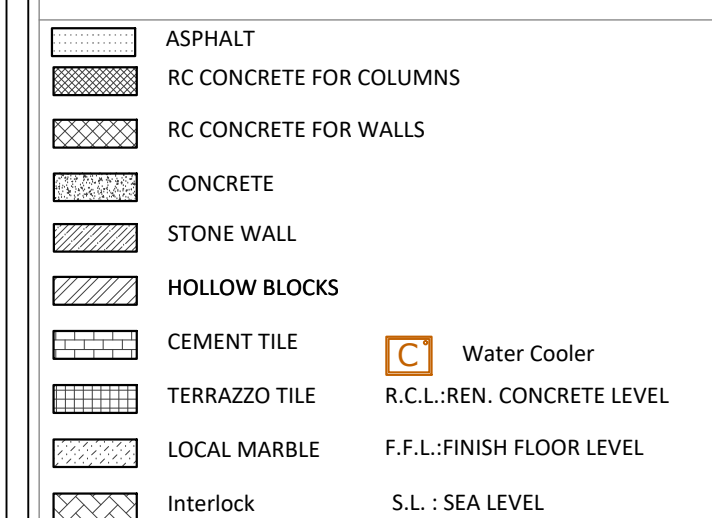
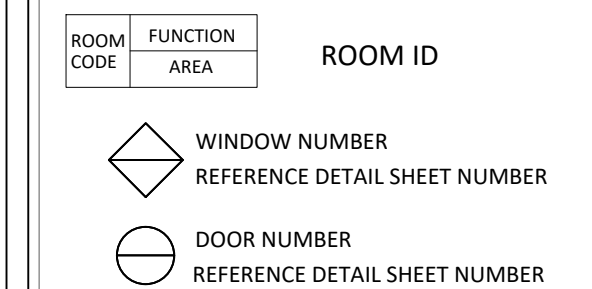
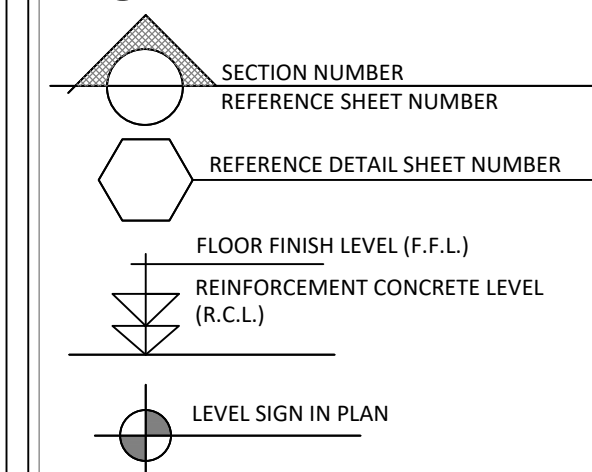
BIKE PARKING— FRONT ELEVATION

Scale 1:25

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Address
email

Tel.
Fax:

Sheet Name:	BIKES PARKING	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D18
Approved by:	NAME	
Coordinate Manager:	NAME	

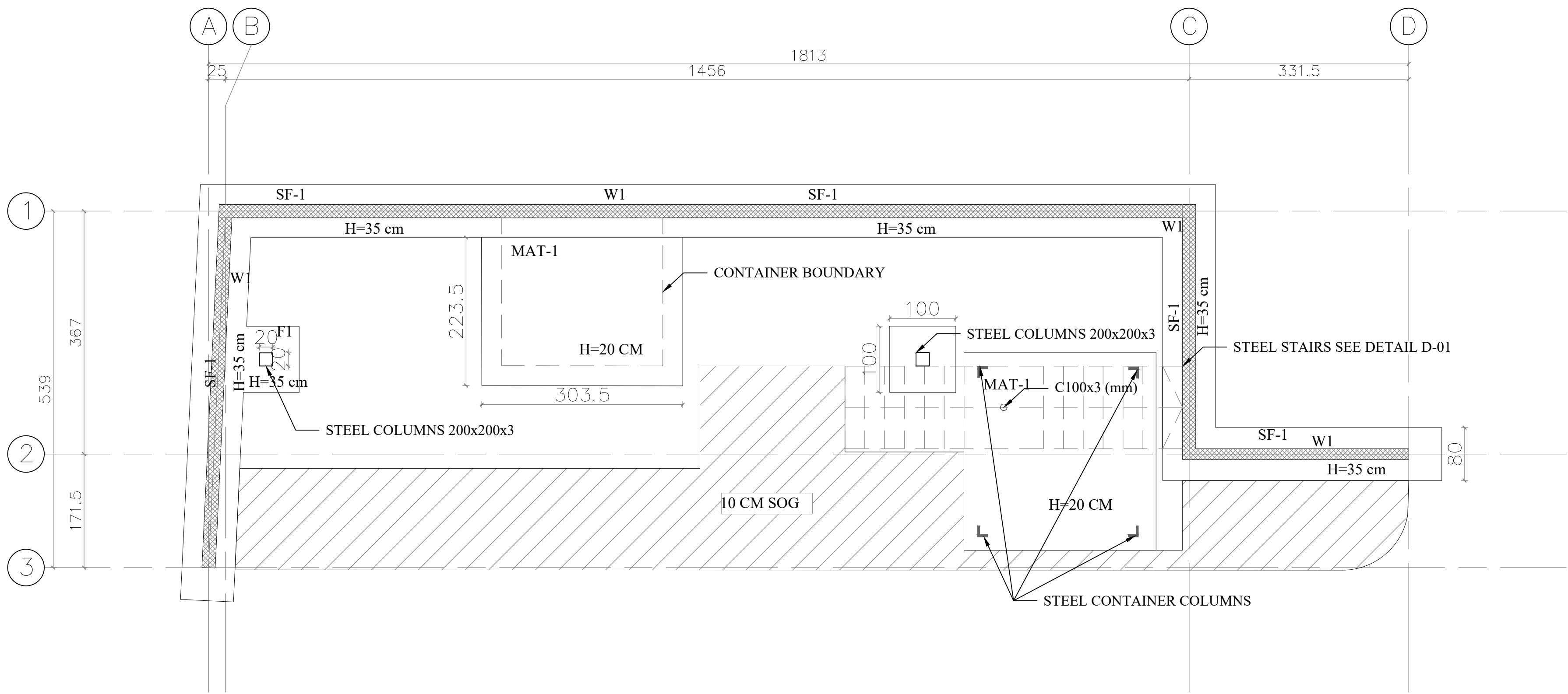
Design data:
1– The Concrete must be of quality B300
2– Cast iron with a tensile strength of 400
3– The foundation layer must be a solid layer, and in the absence of nearby rock, a soil replacement is made by placing the base course in two layers with a thickness of 50 cm, with a compaction work of 98%.
4– A nylon layer is placed under the sub-floor

20

A

DESIGN DATA

NOT TO SCALE



20

B

WALL FOOTING – PLAN

Scale 1:100

Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION AREA

ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L.:REN. CONCRETE LEVEL

F.F.L.:FINISH FLOOR LEVEL

S.L. : SEA LEVEL

REVISIONS

NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

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Reference No.: PZA170421T-10029

Designed by:

Address email

Tel. Fax:

Sheet Name:

STRUCTURAL DETAILS

Date: Jan 2023

Designed by:

NAME M.Arch. Ibrahim Alhindi

Checked by:

NAME M.Arch. Ibrahim Alhindi

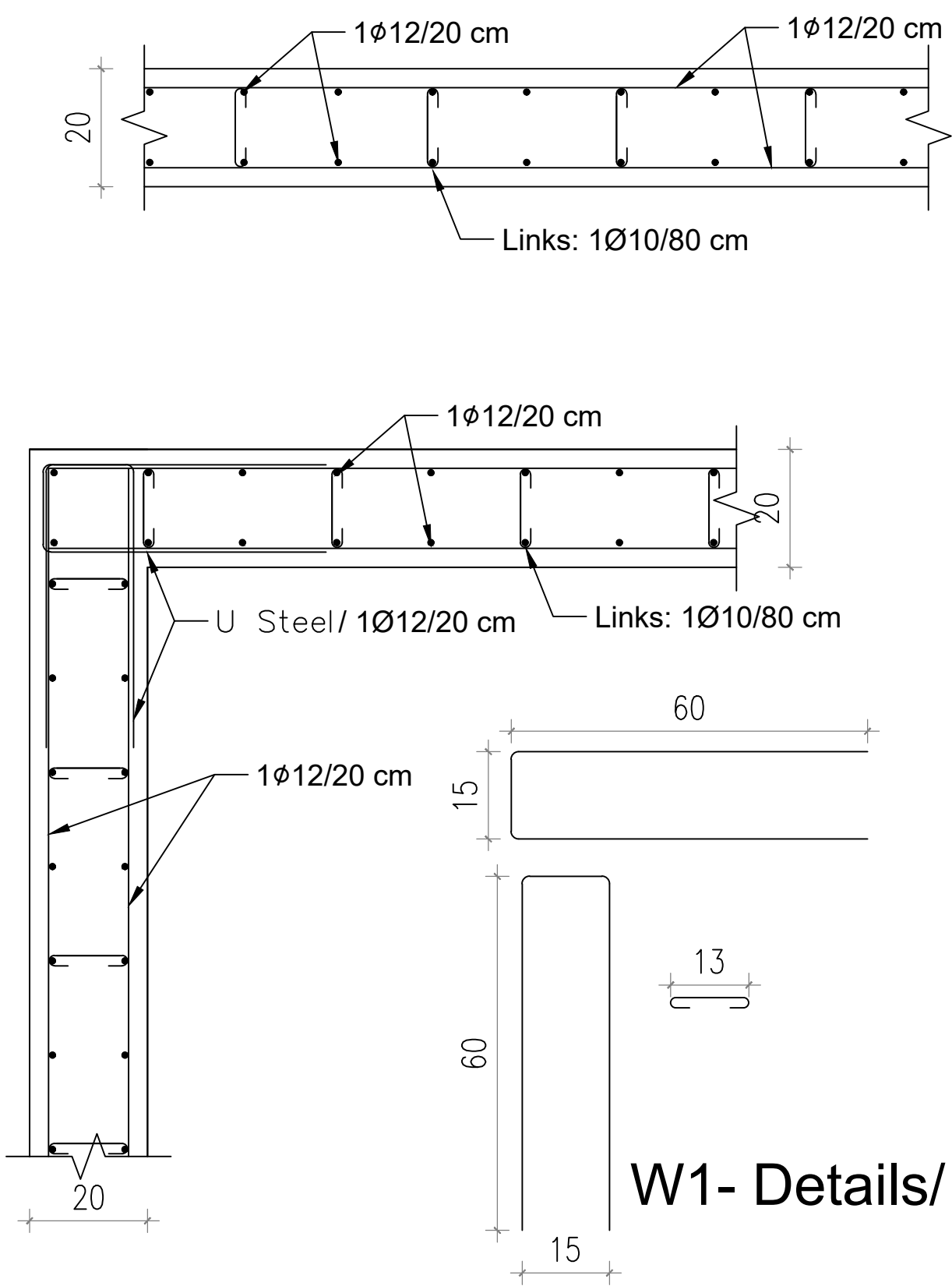
Approved by:

NAME

Coordinate Manager:

NAME

Drawing No: D19



W1- Details/ Scale: 1:20

20

C

W1 – DETAILS

Scale 1:20

20

D

WALLS SCHEDULE

Scale 1:20

WALLS SCHEDULE	
MARK	W1
DIMENSIONS	20
VERT. STEEL	V1Ø12@20/ EF
HORZ. STEEL	H1Ø12@20/ EF

- Notes
- (1) All Dimensions Are In Cm.

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Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION AREA

ROOM ID

WINDOW NUMBER

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REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

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R.C.L.:REN. CONCRETE LEVEL

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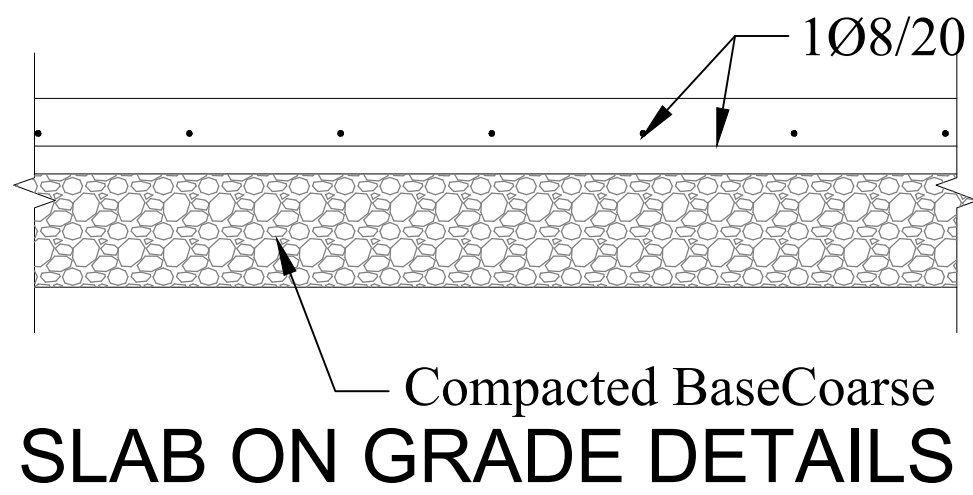
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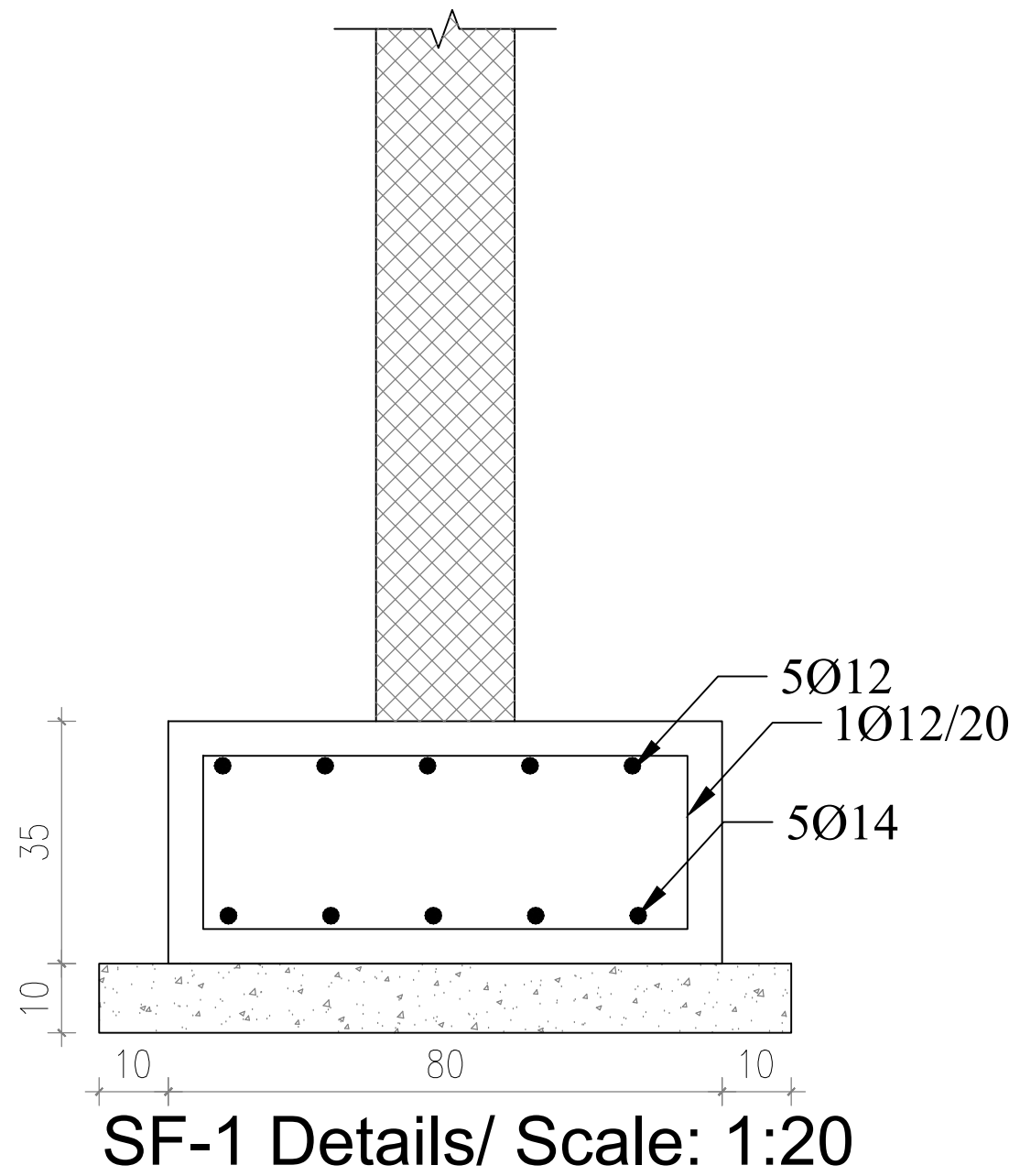
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Sheet Name:	STRUCTURAL DETAILS	Date: Jan 2023
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Checked by:	NAME M.Arch. Ibrahim Alhindi	D20
Approved by:	NAME	
Coordinate Manager:	NAME	



20
E

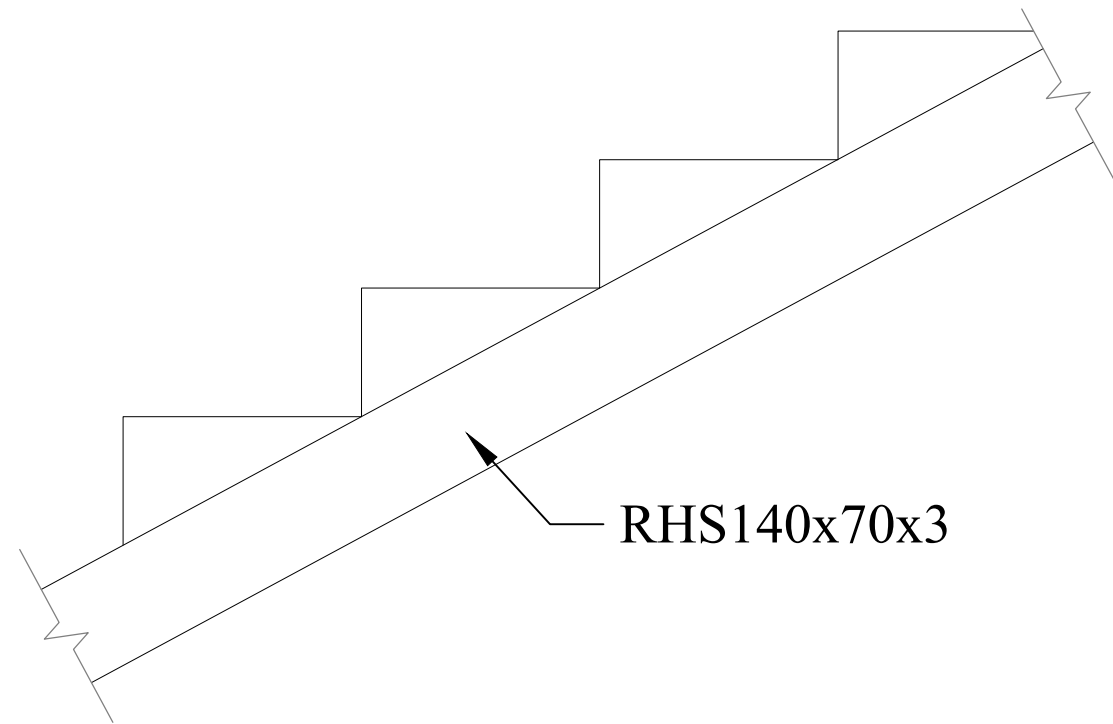
SLAB ON GRADE DETAILS



20
F

SF-1 DETAILS

Scale 1:20



20
G

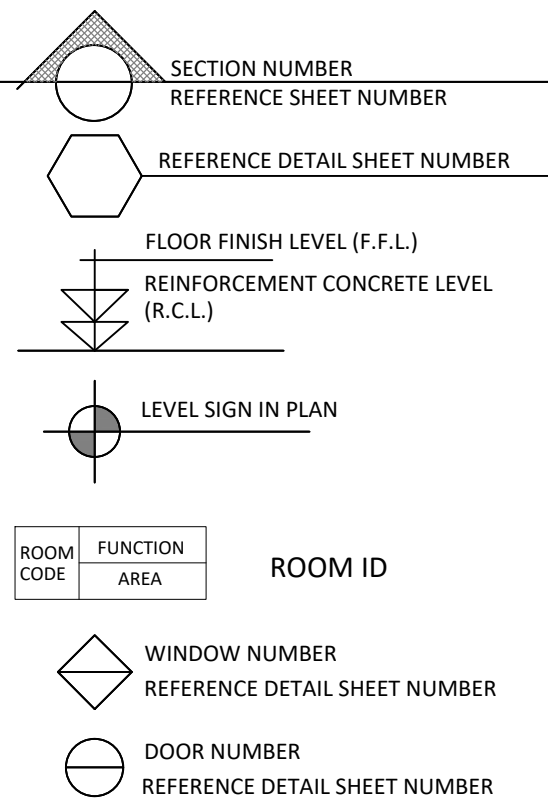
STAIRS DETAIL

FOUNDATION TABLE - 1					
	B(cm)	W(cm)	H (cm)	SHORT STEEL (cm)	LONG STEEL (cm)
F1	100	100	35	20 6Ø14 L=125 85 20	20 6Ø14 L=125 85 20
MAT-1	SEE PLAN		20	B 1Ø12/20	B 1Ø12/20

Notes

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Legend:



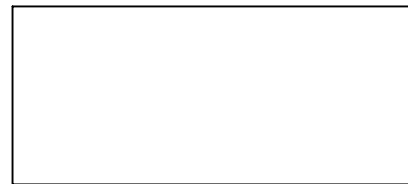
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Sheet Name:	STRUCTURAL DETAILS	Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No:
Checked by:	NAME M.Arch. Ibrahim Alhindi	D21
Approved by:	NAME	
Coordinate Manager:	NAME	

Structural Design Criteria And Construction Requirements

1) Code of Practice :

- For estimating gravity vertical loads and wind loads (DL, LL, WL): ACI Code
- For the design and construction requirements of structural steel buildings **AISC 360-10 Code.**
- For the design and construction requirements of structural concrete **ACI 318-14 Code.**

2) Concrete & Reinforced Concrete :

- Concrete grading and specification shall be in accordance with Palestinian Standards (PS 45,55) .
- Concrete Grades are:
 - B300 for Footings and Slab on Grade and Reinforced Wall.

- Reinforcing steel bars denoted by the symbol $\emptyset$ shall be deformed high grade steel having a minimum yield strength of 420 MPa

4) Structural Steel Construction :

a. Steel Sections:

- Angle Structural Shapes : GRADE S275
- Hollow Structural Tubes : GRADE S275

- Steel Plates : grade 50 with minimum yielding strength = 345 MPa

- Anchor Bars and Bolts : (High Strength Black Bolts Grade 5.8 for all bolts)

- Reinforcement Grade $F_y=400$ MPa

e. Welding :

- welding process according to American Welding Society (AWS)
- welding type used Shielded Metal Arc Welding Process (SMAW)
- welding electrodes :
 - welding electrodes are of steel ASTM/A572
 - welding electrodes strength E60

- Structural steel painting : the painting consist of four layers :

- two layers of red leads 50micron each layer
- two layers of epoxy paints

5) Protection of Substructure :

Smoothing the surface by a mortar of cement and sand and painting two coat of Nitoproof 30 with thickness 500micron for each layer or equivalent waterproof product

6) Concrete cover to steel reinforcement :

minimum clear concrete cover to steel reinforcement shall be as shown on drawings. where not shown , it shall be as follows :

- 50mm , when in contact with water
- 50mm , when exposed to earth or weather

7) Loads

- Wind Load is calculated based on **ASCE7-10 code.**
- According to Local Maps wind speed at site is around 27 m/sec
- Wind Pressure computed using recommended wind speed is compared with a minimum of 0.77 kN/m²
- If wind pressure computed using wind speed is below minimum then minimum value will control design
- Earthquake Load according to UBC97.

- 8) For steel reinforcement : The contractor shall prepare full bar bending schedule and shop drawings for engineer approval.

- 9) For structural steel sections : The contractor shall prepare detailed shop drawings and erection drawing for engineer approval.

10) Loads :

a-Gravity loads and wind loads estimation are in accordance of **ASCE7-10**

b- Design Load Combinations:

Load Combination No. 1=1.4D.L

Load Combination No. 2=1.2D+1.6L.L

Load Combination No. 3=1.2D+1.4W.L

Load Combination No. 4=1.0D+1.0E.L

*D.L= Dead Load; L.L=Live Load; W.L=Wind Load; E.L=Earthquake Load

- 11) Lap splice lengths of reinforcement bars shall be as shown on the drawings but not less than 60 bars diameter.

Table for Lap splice lengths of reinforcement bars

Bar Diameter $\emptyset$	Lap splice length (cm)
$\emptyset 10$	60cm
$\emptyset 12$	75cm
$\emptyset 14$	85cm
$\emptyset 16$	100cm
$\emptyset 18$	110cm
$\emptyset 20$	120cm
$\emptyset 25$	150cm

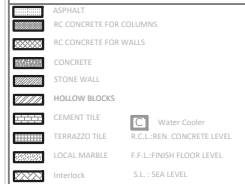
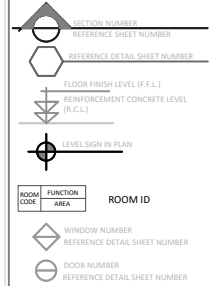
- 12) All reinforcing bars anchoring two different structural elements shall be ended with 90 hook as shown on drawings but not less than the following :



Notes

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Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
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Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Design Data

Address	Tel.	Date: Jan 2023
email	Fax:	Scale: 1:100
Sheet Name:	Designed by: NAME M.Arch. Ibrahim Alhadi	Drawing No: S01
Checked by: NAME M.Arch. Ibrahim Alhadi	Approved by: NAME	
Coordinate Manager: NAME		

Containers Analysis and Design Criteria

1) Introduction

The Project is composed of many structural elements; one of these elements is shipping containers. Shipping containers are designed based on specific standards. In this section standards of containers will be presented taking in consideration that contractor is supposed to supply the containers that satisfy mentioned standards.

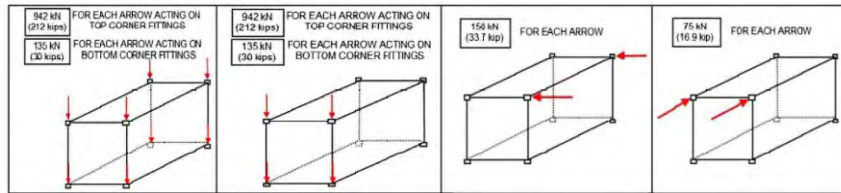
2) Global Standard

Below Tables show specifications of containers

		20' container		40' container		40' high-cube container		45' high-cube container	
		imperial	metric	imperial	metric	imperial	metric	imperial	metric
external dimensions	length	20' 0"	6.096 m	40' 0"	12.192 m	40' 0"	12.192 m	45' 0"	13.716 m
	width	8' 0"	2.438 m	8' 0"	2.438 m	8' 0"	2.438 m	8' 0"	2.438 m
	height	8' 6"	2.591 m	8' 6"	2.591 m	9' 6"	2.896 m	9' 6"	2.896 m
interior dimensions	length	18' 8 ¹³ / ₁₆ "	5.710 m	39' 5 ⁴⁵ / ₆₄ "	12.032 m	39' 4"	12.000 m	44' 4"	13.556 m
	width	7' 8 ¹⁹ / ₃₂ "	2.352 m	7' 8 ¹⁹ / ₃₂ "	2.352 m	7' 7"	2.311 m	7' 8 ¹⁹ / ₃₂ "	2.352 m
	height	7' 9 ⁵⁷ / ₆₄ "	2.385 m	7' 9 ⁵⁷ / ₆₄ "	2.385 m	8' 9"	2.650 m	8' 9 ¹⁵ / ₁₆ "	2.698 m
door aperture	width	7' 8 ¹ / ₈ "	2.343 m	7' 8 ¹ / ₈ "	2.343 m	7' 6"	2.280 m	7' 8 ¹ / ₈ "	2.343 m
	height	7' 5 ³ / ₄ "	2.280 m	7' 5 ³ / ₄ "	2.280 m	8' 5"	2.560 m	8' 5 ⁴⁹ / ₆₄ "	2.585 m
internal volume		1,169 ft ³	33.1 m ³	2,385 ft ³	67.5 m ³	2,660 ft ³	75.3 m ³	3,040 ft ³	86.1 m ³
max. gross weight		66,139 lb	30,400 kg	66,139 lb	30,400 kg	68,008 lb	30,848 kg	66,139 lb	30,400 kg
empty weight		4,850 lb	2,200 kg	8,380 lb	3,800 kg	8,598 lb	3,900 kg	10,580 lb	4,800 kg
net load		61,289 lb	28,200 kg	57,759 lb	26,600 kg	58,598 lb	26,580 kg	55,559 lb	25,600 kg

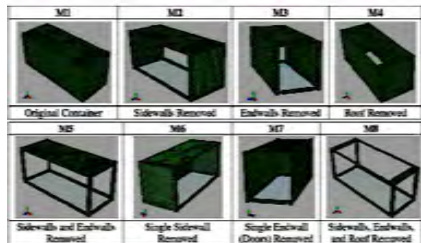
[Reference: Moore, C. M., Yildirim, S. G., & Baur, S. W. (2015). Educational Adaptation of Cargo]
Container Design Features. *ASEE Zone III Conference*.

Shipping Containers follow ISO specifications. Figure below shows tests applied on containers to ensure strength.



[Reference: Moore, C. M., Yildirim, S. G., & Baur, S. W. (2015). Educational Adaptation of Cargo]
Container Design Features. *ASEE Zone III Conference*.

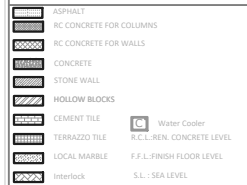
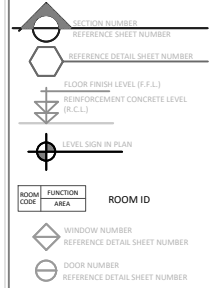
–Evaluation, modeling, and analysis of shipping container building structures is an article that studies effect of changes applied on containers. Figure below shows scenarios of modification that study covers.



Notes

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Legend:



REVISIONS		
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(1)		
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Reference No.: PZA170421T-10029

Designed by:

Containers Analysis and Design Criteria-1

Address	Tel.	Date: Jan 2023
email	Fax:	Scale: 1:100
Sheet Name:		
Designed by:	NAME: M.Arch. Ibrahim Alhadi	
Checked by:	NAME: M.Arch. Ibrahim Alhadi	
Approved by:	NAME:	
Coordinate Manager:	NAME:	
		Drawing No: S02

–Each case of the 8 cases was tested for 5 scenarios using finite element software

–The loading scenarios incorporate the effect of gravity and lateral loading, and the computer simulations demonstrate the effectiveness of the container walls and roof to resist the loads. Having used the computer programs SolidWorks, Hypermesh, and Abaqus.

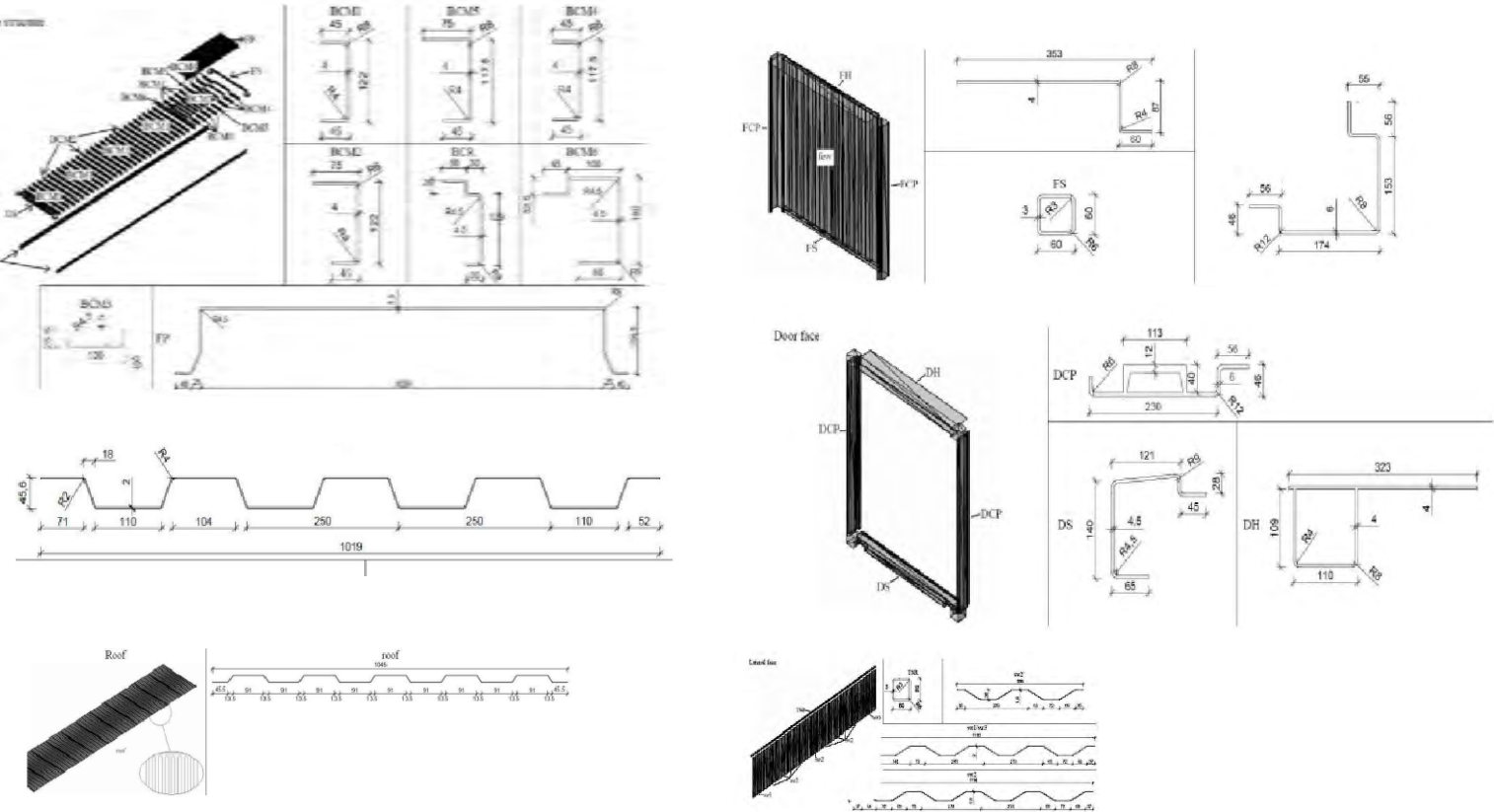
Loading Scenario 1	Loading Scenario 2	Loading Scenario 3	Loading Scenario 4	Loading Scenario 5
Compressive Point Loading (4 corner fittings)	Compressive Point Loading (2 corner fittings short side)	Compressive Point Loading (2 corner fittings long side)	Transverse Point Loading (Inward)	Longitudinal Point Loading (Inward)

–For all loading scenarios, the calculated maximum elastic load for the complete model (M1) reached or exceeded the corresponding loads specified in ISO 1496–1 2015. With the exception of the roof removed model (M4) in Loading Scenario 5, the maximum resisting load for almost all the modified containers was either close or less than the ISO 1496–1 specified loads. Therefore, it is likely that yielding may occur in modified containers before reaching the capacity required in ISO 1496– 1. As long as the container structure stacks the containers similar to transportation methods, the ISO loading scenarios should applicable.

[Reference: Girmann, K., Sauer, H. & Dupuis, R. B. (2015) Evaluation, modeling, and analysis of shipping container building structures. *Engineering Structures*, 43, 48-57.]

3) Containers Specifications

–Shipping containers have same specifications when having same dimensions. Figure below shows details of 40’ container.



Notes

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Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION

AREA

ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L. - REN. CONCRETE LEVEL

F.F.L. - FINISH FLOOR LEVEL

S.L. - SEA LEVEL

REVISIONS

NO.	DRAWINGS	DATE
(1)		
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Contracting Authority:

Enabel - Belgian Development Agency

Funded By:

Belgium
partner in development

This Project is Funded by
EUROPEAN UNION

Project Title:

PUBLIC WORKS CONTRACT
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Reference No.: PZA170421T-10029

Designed by:

Containers Analysis and Design Criteria-2

Address email

Tel. Fax:

Sheet Name:

Jan 2023

Scale: 1:100

Designed by: NAME M.Arch. Ibrahim Alhadi

Checked by: NAME M.Arch. Ibrahim Alhadi

Approved by: NAME

Coordinate Manager: NAME

Drawing No: S03

4) Containers' Connection Details

–Container will be connected to structural footing through base plate. The underside of the base plate has reinforcing bars (anchor bolts) of varying lengths. The anchor bolts are welded onto the underside of the plate and are cast into the concrete foundations or grout while it is still wet. Once the concrete or grout is hardened, the base plate is anchored into the foundations. there are multiple options for connecting containers to other containers or transporting devices presented in ISO 3874 (ISO3874, 1997). The connection devices lock the containers together by attaching through the top or bottom openings on corner fittings. Twist locks and latch–locks are connection devices securing two containers at the corner fittings during stacking, transporting, or lifting empty container situations. Stacking fittings or stacking cones secure containers only horizontally during stacking or transporting and are always used in junction with other securing devices. The connection –devices can support lateral and gravity loads only under normal shipping operations (150 kN tensile strength and 850 kN compressive strength). Depending on the container structure's application. [Reference:DESIGN OF A TWO STORY ISO SHIPPING CONTAINER BUILDING, Master's Thesis by Mohammad IAUTCB, Tehran, Iran]



5) Containers' Footing System

- Footing system supporting container's depend on loads; since loadings are low based on the fact that the structural system it self is light; two types of footings may be applicable:
 - a– Treating Footings as Raft
 - b– Treating supporting system as Slab on Grade

–Cargo container homes require a foundation system just as any other residential dwelling would. While the design parameters for shipping container homes are constantly evolving due to the relatively young age of the technology, there seem to be two major methodologies in regards to a foundation system. Most cargo container homes utilize either a slab–on–grade foundation or a concrete pile foundation. A basement is possible with either of those two types of foundations, but because the cargo containers are intermodal containers (and thus can be moved easily) a basement would not be practical. Moving the containers would leave a large void that would be wasted. While a basement is possible, the scope of this paper will cover foundation systems for cargo container homes that do not have a basement.[Reference:Educational Adaptation of Cargo Container Design Features]

- In this Project Mat foundation (raft) will be used beneath containers to avoid settlements issues that may occur through the life of structure.

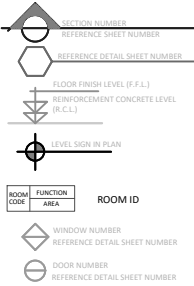
6) Summary

- After reviewing available information about shipping containers following points may summarize how to deal with such projects
 - a– shipping containers worldwide follows global standard; these standards ensure safe structural system against variable loading scenarios.
 - b– it is common to do changes on containers; reviewing one of the articles shows that even when removing all sides the container still satisfy standards.
 - c– Containers are light structures; therefore, applied loads on ground is not that much, and a supporting system of Slab on Grade is enough; However, Rafts of 30 cm is suggested to overcome any suspected issues of settlements.
 - d– If two containers need to be connected using plates with welding will be enough (refer to point 4 for illustration).
- e–based on previous points; it is clear that suggested changes on containers (if the provided is shipping) will still make the structure safe. However; in the next section modeling will ensure safety by applying loadings on real structure.

Notes

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Legend:



	ASPHALT		Water Cooler
	RC CONCRETE FOR COLUMNS		R.C.L. REIN. CONCRETE LEVEL
	RC CONCRETE FOR WALLS		F.F.L. FINISH FLOOR LEVEL
	CONCRETE		INTERLOCK
	STONE WALL		
	HOLLOW BLOCKS		
	CEMENT TILE		
	TERRAZZO TILE		
	LOCAL MARBLE		
	S.L. : SEA LEVEL		

REVISIONS		
NO.	DRAWINGS	DATE
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Designed by:

Containers Analysis and Design Criteria-3

Address: email: Tel: Fax:

Sheet Name:		Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhadi	Scale: 1:100
Checked by:	NAME M.Arch. Ibrahim Alhadi	Drawing No: S04
Approved by:	NAME	
Coordinate Manager:	NAME	

7) Modeling

- In this section two containers will be modeled using ETABS software, with the application of variable load cases.
- Since Containers are not provided yet; the check will be for assumed specifications where these specifications will be the minimum to ensure higher safety factors.
- Figure below shows the rendered views of both models.

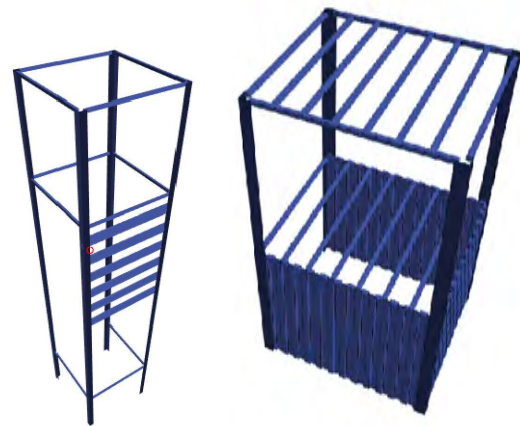


Figure: Models built using ETABS

- Model's assumption:
- Columns are lines with section property of angle; the section of the side columns are RHS100x150x4.7 mm
- Supporting beams are SHS120x120x4.5
- Wind load value is controlled by minimum pressure value 0.77 kN/m2
- Earthquake loads based on UBC97 with two load cases: Eqx; and Eeq
- Value of Ct=0.035
- Figures below show application of point loads for the both wind load case and Earthquake load cases, and the application of clock weight as a line load

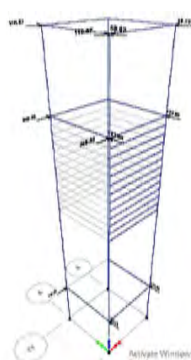


Figure: Wind Load Case 1

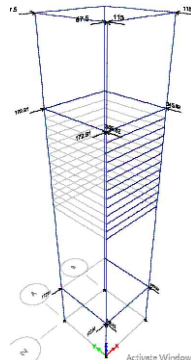


Figure: Wind Load Case 2



Figure: Auto-Seismic Earthquake load (x)



Figure: Auto-Seismic Earthquake load (y)

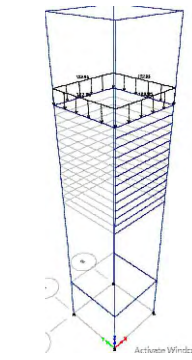
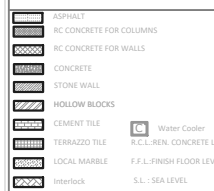
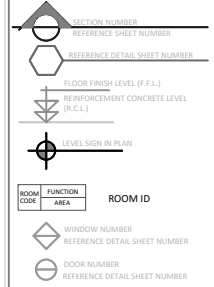


Figure: Clock weight

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA1704217-10029

Designed by:

Containers Analysis and Design Criteria-4

Address: email: Tel: Fax:

Sheet Name:		Date: Jan 2023
Designed by: NAME M.Arch. Ibrahim Alhadi		Scale: 1:100
Checked by: NAME M.Arch. Ibrahim Alhadi		Drawing No: S05
Approved by: NAME		
Coordinate Manager: NAME		

– Figures below show response of structure to various types of loads

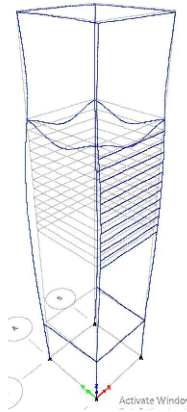


Figure: Deformed Shape due to self-Weight



Figure: Deformed Shape due to Wind x

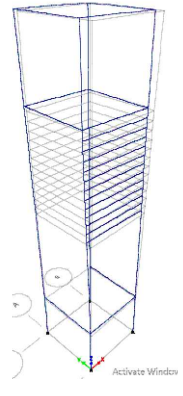


Figure: Deformed Shape due to Wind y

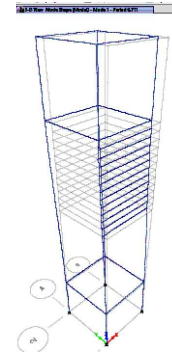


Figure: Fundamental Period

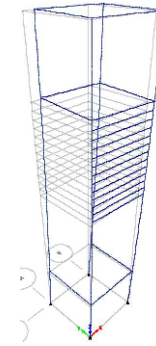


Figure: Eqx case

– Figures below show Design outputs for the inspected containers

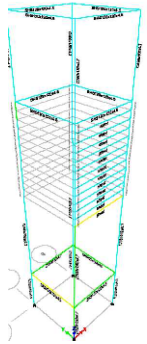


Figure: Design check outputs

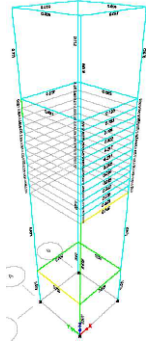
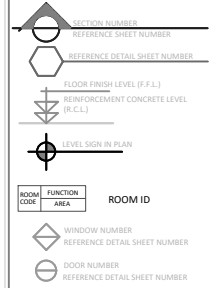


Figure: Design check outputs (Ratio (demand/capacity))

Notes

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- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ASPHALT	Water Cooler
RC CONCRETE FOR COLUMNS	R.C.L.-REN. CONCRETE LEVEL
RC CONCRETE FOR WALLS	F.F.L.-FINISH FLOOR LEVEL
CONCRETE	S.L.-SEA LEVEL
STONE WALL	
HOLLOW BLOCKS	
CEMENT TILE	
TERRAZZO TILE	
LOCAL MARBLE	
Interlock	

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



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Funded By:



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**PUBLIC WORKS CONTRACT
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Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Containers Analysis and Design Criteria-5

Address	Tel.	Date
email	Fax:	Jan 2023
Sheet Name:	Scale:	1:100
Designed by:	NAME	M.Arch. Ibrahim Alhadi
Checked by:	NAME	M.Arch. Ibrahim Alhadi
Approved by:	NAME	
Coordinate Manager:	NAME	
		Drawing No:
		S06

Structural Design of Steel Stair

1) Introduction

In this section design of steel structure will be illustrated

2) Structural Modeling

Figure below shows 3D model built using ETABS software



Figure: 3D Model –Stair–ETABS

Figure below shows deformed shape of stair

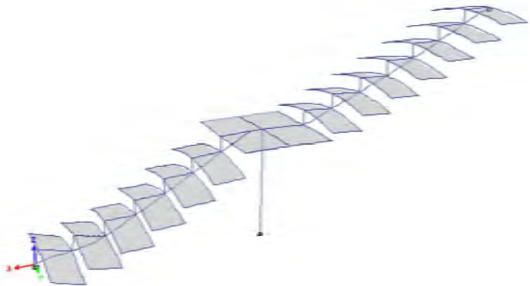


Figure: Deformed Shape of Stair

Figure below shows design output of Stair

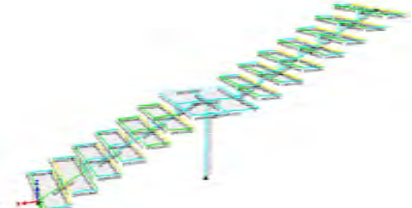
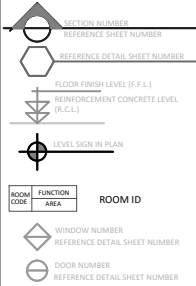


Figure: Deformed Shape of Stair

Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



ASPHALT	RC CONCRETE FOR COLUMNS
RC CONCRETE FOR WALLS	CONCRETE
STONE WALL	HOLLOW BLOCKS
CEMENT TILE	Water Cooler
TERRAZZO TILE	R.C.L.-REN. CONCRETE LEVEL
LOCAL MARBLE	F.F.L.-FINISH FLOOR LEVEL
Interlock	S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Structural Design of Steel Stair

Address
email

Tel.
Fax:

Sheet Name:		Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhadi	Scale: 1:100
Checked by:	NAME M.Arch. Ibrahim Alhadi	Drawing No: S07
Approved by:	NAME	
Coordinate Manager:	NAME	

Structural Design of Retaining Wall

1) Introduction

In this section design of retaining wall will be illustrated, the design is done using two software: ETABS, and PROKON

2) Design Assumptions

Following are the design assumptions:

- 1) Most of Wall is supported from two points; footing and upper level slab.
- 2) Footings are supported on hard layer; if no rock is near, a soil replacement is needed and the bearing capacity is assumed to be 2.0 kg/cm².
- 3) Wall is designed against over turning and against sliding.
- 4) Backfilling materials are supposed to be selected with unit weight of 18 kN/m³
- 5) Angle of friction of the selected backfill is supposed to be 35 degree
- 6) Wall is designed to support both lateral loads of backfilling material and dynamic loads for the adjacent soil layer.
- 7) Concrete for both footing and wall shall be B300 ($f_{cu}=30$ Mpa; $f_c'=24$ Mpa)

3) Structural Models

Figure below shows the model built using PROKON software.

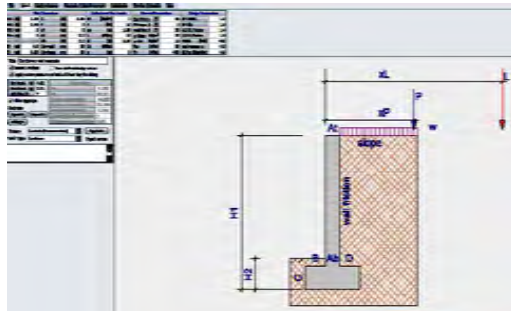


Figure: Input Data for retaining wall

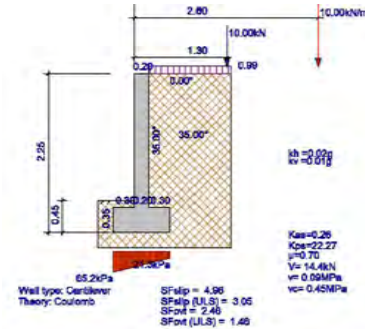


Figure: Design check

Figure below shows ETABS 2D model.



Figure: 2D Model using ETABS

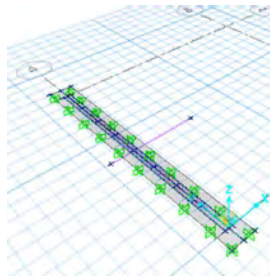


Figure: 2D Model using SAFE for Footing Figure: Soil Pressure under Footing

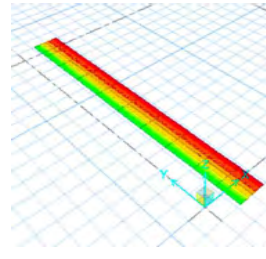


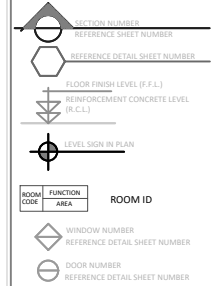
Figure: Soil Pressure under Footing

Value of Lateral load is calculated using the following formula: $F = k \cdot h \cdot \gamma_{\text{ama}}$ --> $K = 0.27$ ($\phi = 35$)

Notes

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Legend:



	ASPHALT	
	RC CONCRETE FOR COLUMNS	
	RC CONCRETE FOR WALLS	
	CONCRETE	
	STONE WALL	
	HOLLOW BLOCKS	
	CEMENT TILE	 Water Cooler
	TERRAZZO TILE	R.C.L.-REN. CONCRETE LEVEL
	LOCAL MARBLE	F.F.L.-FINISH FLOOR LEVEL
	Interlock	S.L. : SEA LEVEL

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Reference No.: PZA170421T-10029

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Structural Design of Retaining Wall

Address email	Tel. Fax:	
Sheet Name:		Date: Jan 2023 Scale: 1:100
Designed by:	NAME M.Arch. Ibrahim Alhindi	Drawing No: S08
Checked by:	NAME M.Arch. Ibrahim Alhindi	
Approved by:	NAME	
Coordinate Manager:	NAME	



Notes

(1) All Dimensions Are In Cm.
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Legend:

SECTION NUMBER
 REFERENCE SHEET NUMBER
 REFERENCE DETAIL SHEET NUMBER
 FLOOR FINISH LEVEL (F.F.L.)
 REINFORCEMENT CONCRETE LEVEL (R.C.L.)
 LEVEL SIGN IN PLAN
 ROOM CODE ROOM ID
 WINDOW NUMBER REFERENCE DETAIL SHEET NUMBER
 DOOR NUMBER REFERENCE DETAIL SHEET NUMBER

ASPHALT
 RC CONCRETE FOR COLUMNS
 RC CONCRETE FOR WALLS
 CONCRETE
 STONE WALL
 HOLLOW BLOCKS
 CEMENT TILE
 TERRAZZO TILE
 LOCAL MARBLE
 Interlock

Water Cooler
 R.C.L.-REN. CONCRETE LEVEL
 F.F.L.-FINISH FLOOR LEVEL
 S.L.-SEA LEVEL

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Belgium
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 Spaces in East Jerusalem'**

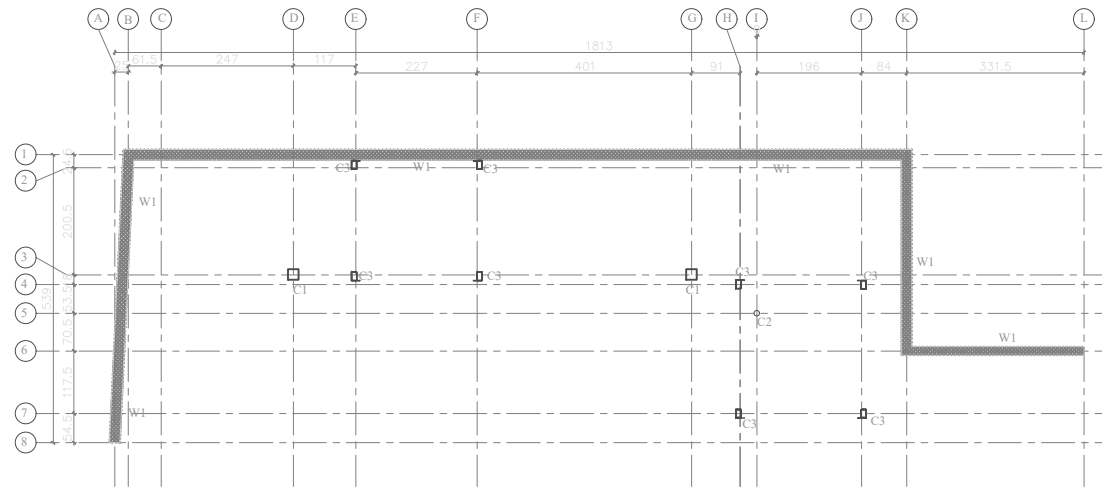
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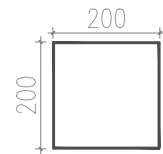
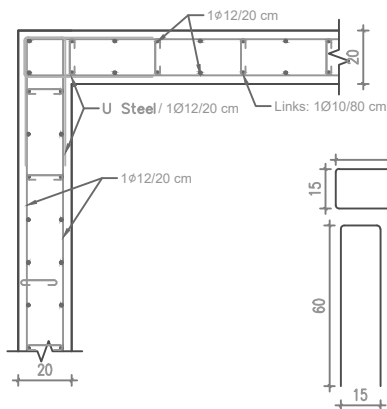
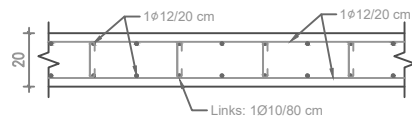
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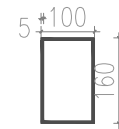
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Designed by: NAME M.Arch. Ibrahim Alhadi	Scale: 1:100	
Checked by: NAME M.Arch. Ibrahim Alhadi		
Approved by: NAME		
Coordinate Manager: NAME		
		Drawing No: S09



W1- Details/ Scale: 1:20



C1 Details
Scale: 1/10



C3 Details
Scale: 1/20



C2 Details
Scale: 1/20

Note: **C3** is the original corner column of the container before removing sides
Structural design assumed dimensions of corner column as provided in the detail.
Contractor must provide the client with the actual section, and if existing section < assumed then verification will be required from contractor

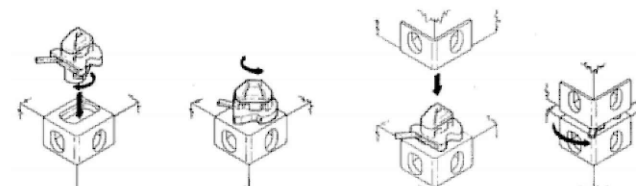
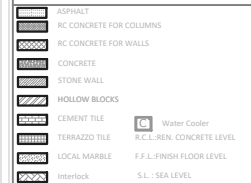
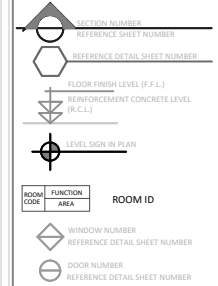


Figure: Illustration of possible locking mechanism

Notes

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Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
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(3)		

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Enabel - Belgian Development Agency

Funded By:



Project Title:

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for the Development of Semi-Public Spaces in East Jerusalem'

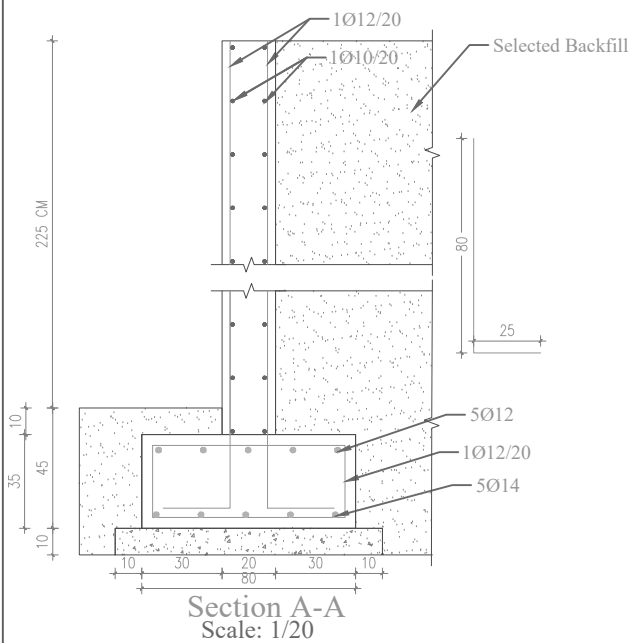
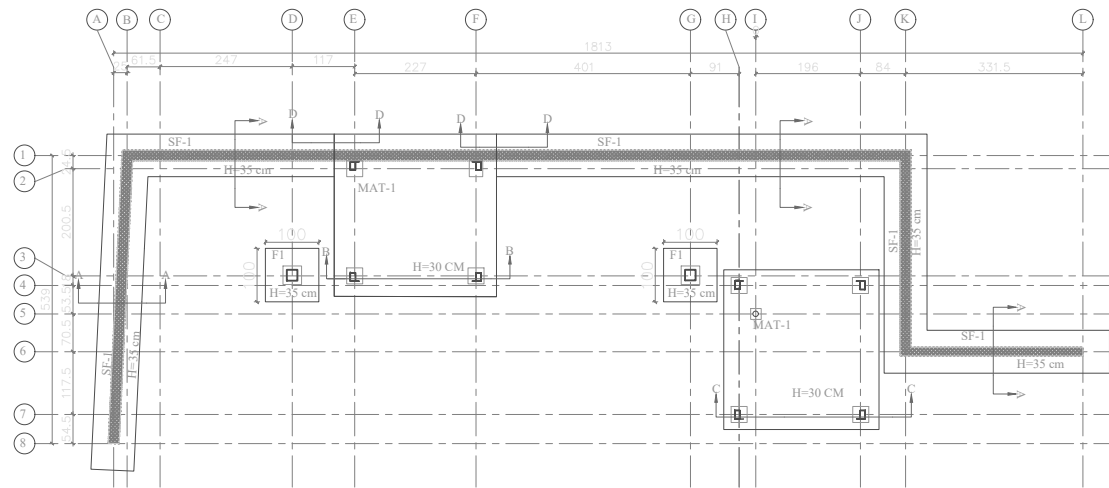
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Designed by:

Structural Elements layout and Details

Address: email: Tel: Fax:

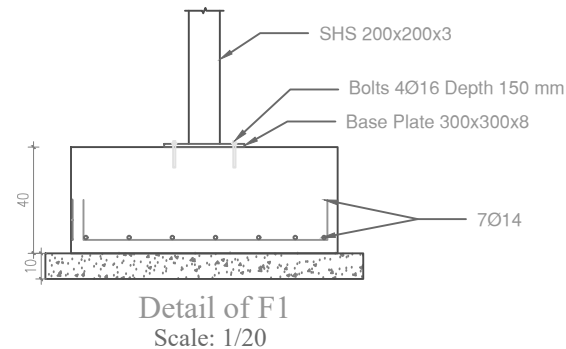
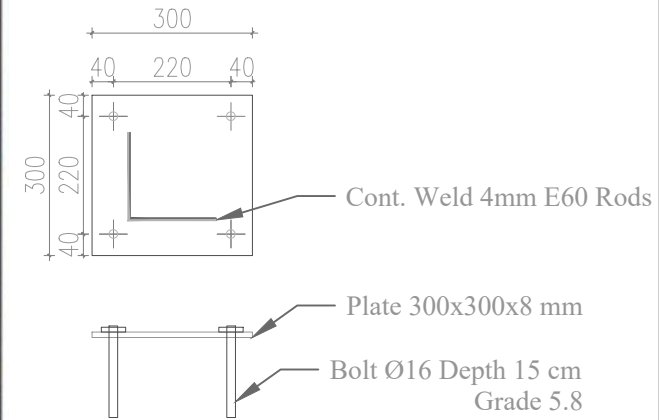
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Designed by: NAME	M.Arch. Ibrahim Alhadi	Scale: 1:100
Checked by: NAME	M.Arch. Ibrahim Alhadi	Drawing No: S10
Approved by: NAME		
Coordinate Manager: NAME		



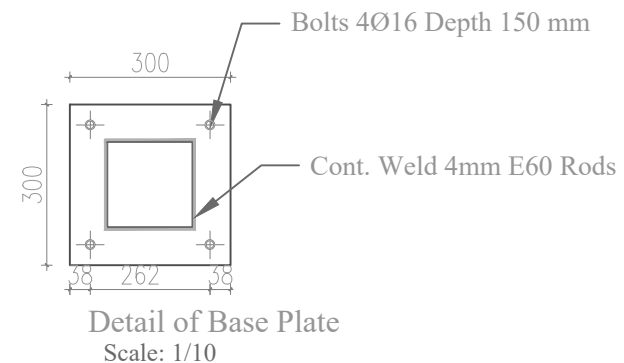
Note: SF-1 is Designed for the worst Case scenario; cantilever wall.
Indeed Wall is supported from two points
Point 1: Footing
Point 2: Slab at Upper Level



Figure: Illustration of Welding Container Column To Plate



Detail of F1
Scale: 1/20

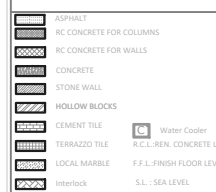
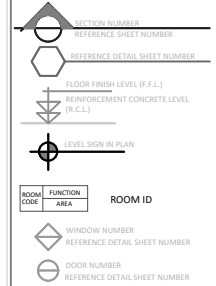


Detail of Base Plate
Scale: 1/10

Notes

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Legend:



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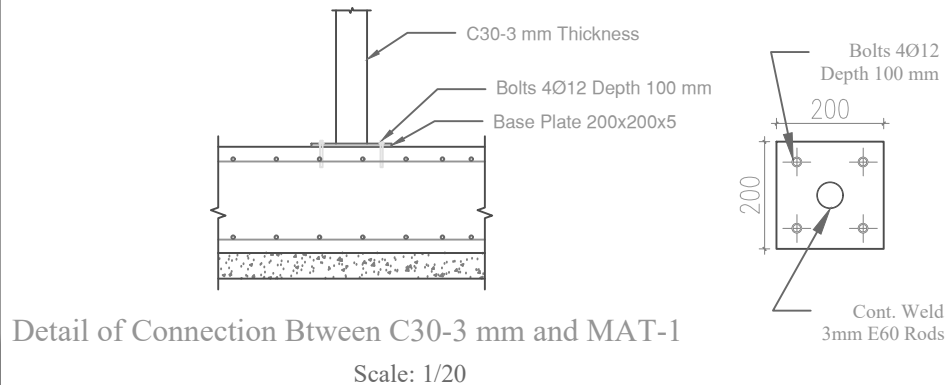
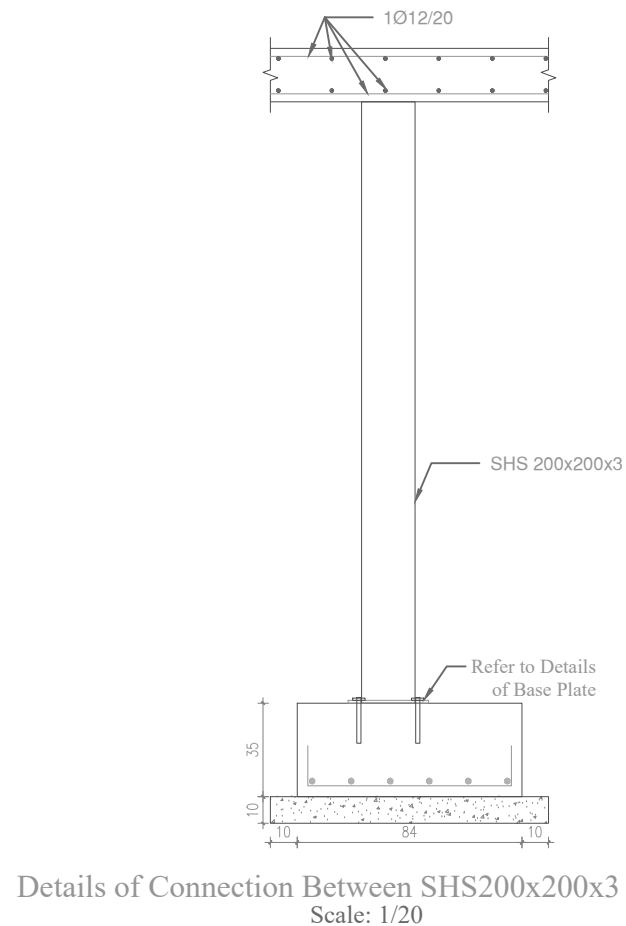
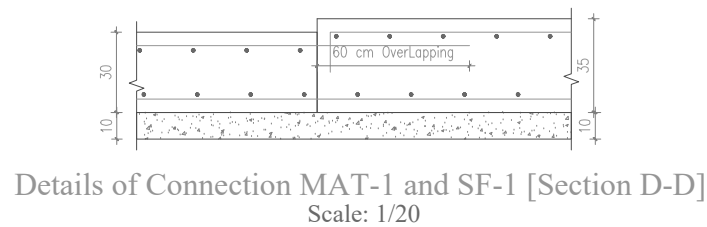
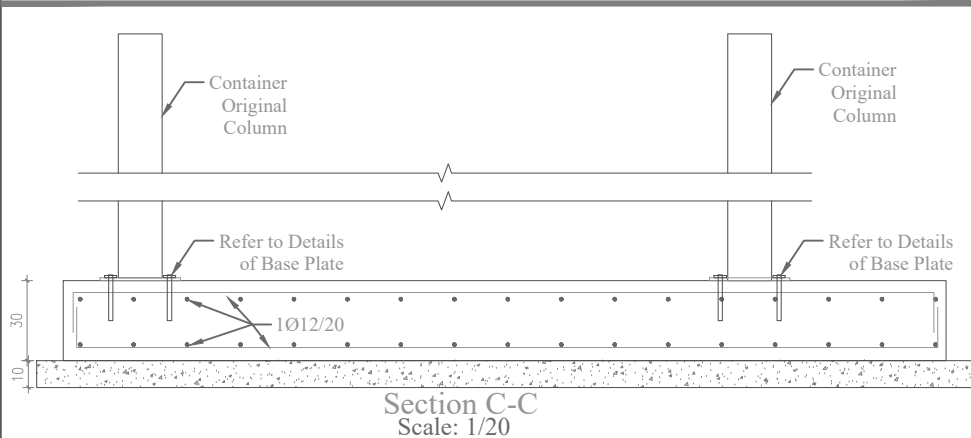
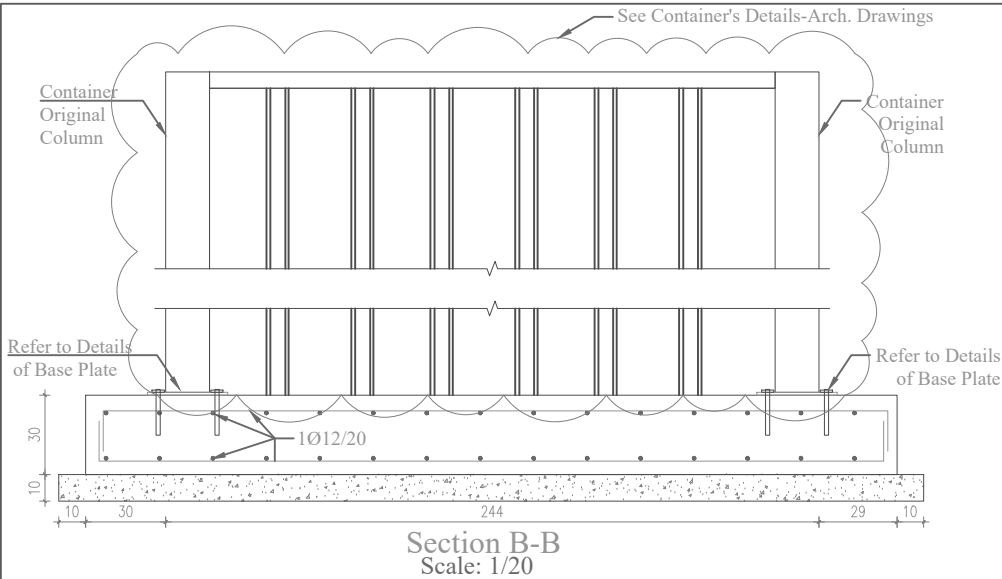
Reference No.: PZA170421T-10029

Designed by:

Structural Footings Layout+Details

Address email Tel. Fax:

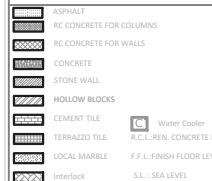
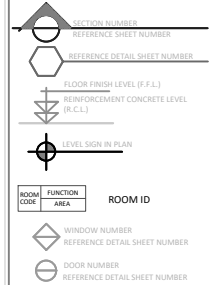
Sheet Name:		Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhadi	Scale: 1:100
Checked by:	NAME M.Arch. Ibrahim Alhadi	Drawing No: S11
Approved by:	NAME	
Coordinate Manager:	NAME	



Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
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Legend:



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Spaces in East Jerusalem'**

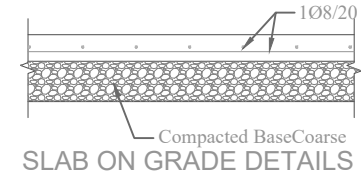
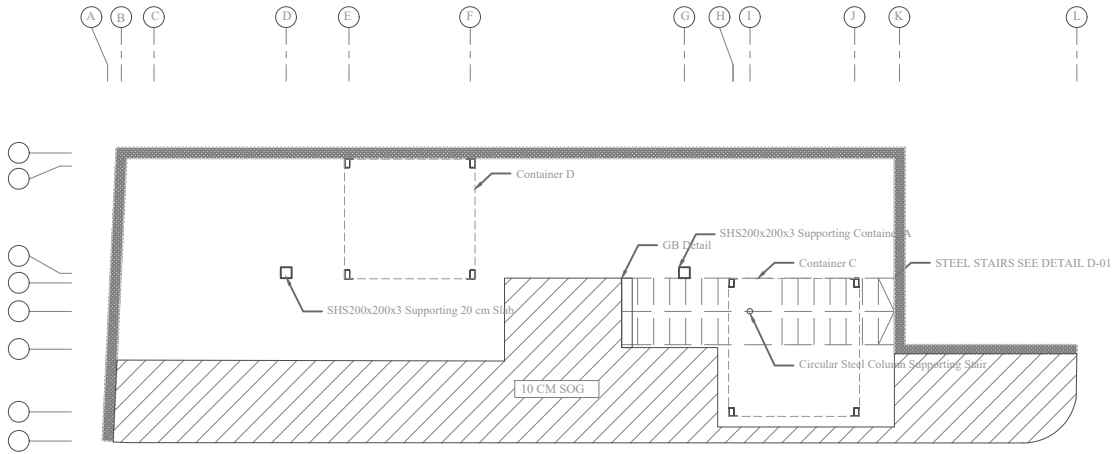
Reference No.: PZA170421T-10029

Designed by:

Footings Details

Address email Tel. Fax:

Sheet Name:		Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhadi	Scale: 1:100
Checked by:	NAME M.Arch. Ibrahim Alhadi	Drawing No: S12
Approved by:	NAME	
Coordinate Manager:	NAME	



Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved By The Supervisor.

Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION AREA

ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L.-REN. CONCRETE LEVEL

F.F.L.-FINISH FLOOR LEVEL

S.L. : SEA LEVEL

REVISIONS

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(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:

Belgium

partner in development

This Project is Funded by

EUROPEAN UNION

Project Title:

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for the Development of Semi-Public Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Slab on Grade Layout and Details

Address email

Tel. Fax:

Sheet Name:

NAME

M.Arch. Ibrahim Alhindi

Designed by:

NAME

M.Arch. Ibrahim Alhindi

Checked by:

NAME

M.Arch. Ibrahim Alhindi

Approved by:

NAME

Coordinate Manager:

NAME

Date:

Jan 2023

Scale:

1:100

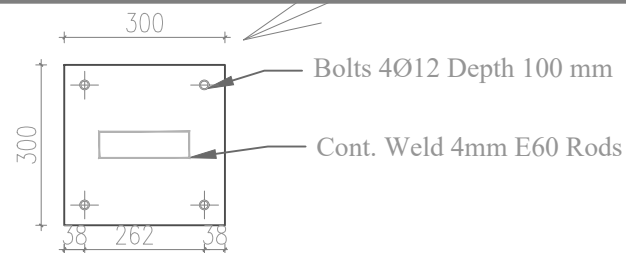
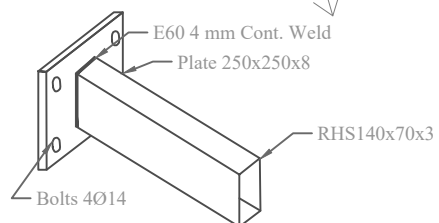
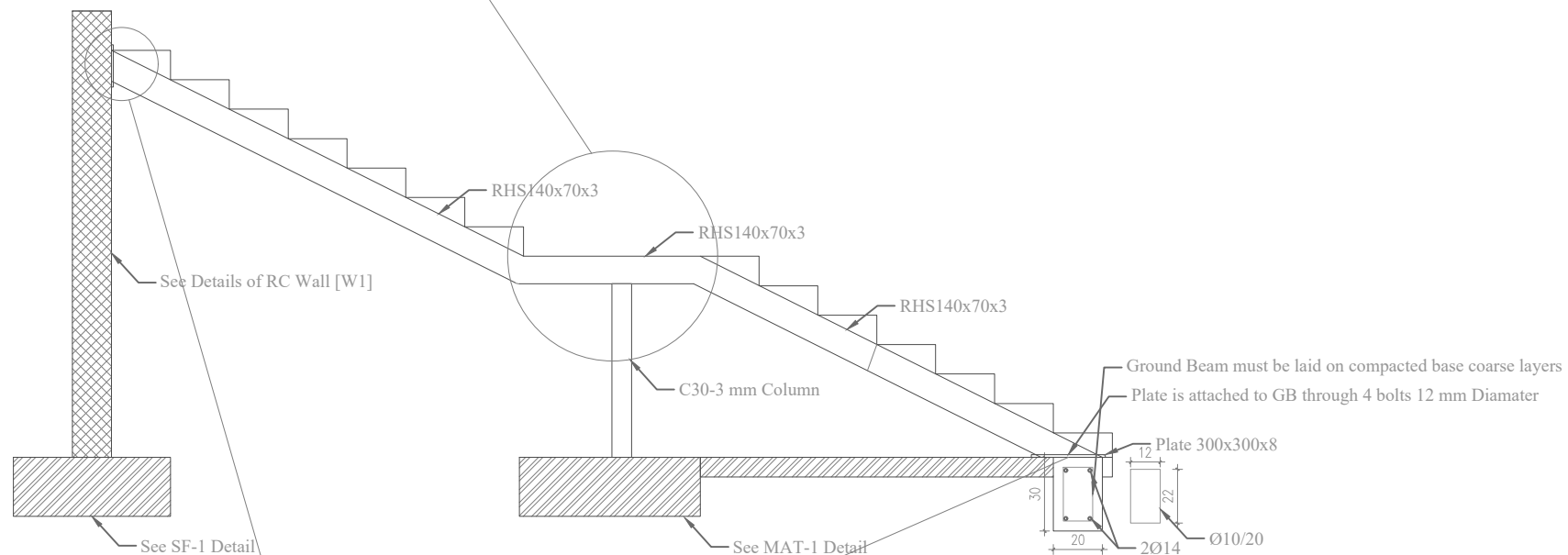
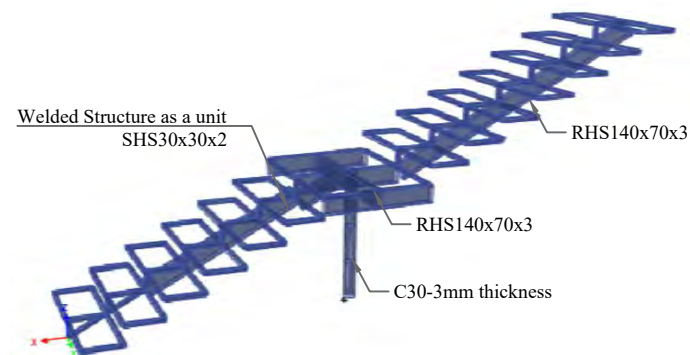
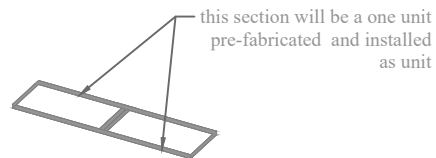
Drawing No:

S13



Note: All Steel Members Connected through Welds
Using E60 rods 3mm unless mentioned any other value

Note: Finish Material of
Stair as per Arch. Drawings



- (1) All Dimensions Are In Cm.
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SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE	FUNCTION AREA	ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

	ASPHALT		
	RC CONCRETE FOR COLUMNS		
	RC CONCRETE FOR WALLS		
	CONCRETE		
	STONE WALL		
	HOLLOW BLOCKS		
	CEMENT TILE		Water Cooler
	TERRAZZO TILE		R.C.L.-REN. CONCRETE LEVEL
	LOCAL MARBLE		F.F.-FINISH FLOOR LEVEL
	Interlock		S.L.-SEA LEVEL

NO.	DRAWINGS	DATE
(1)		
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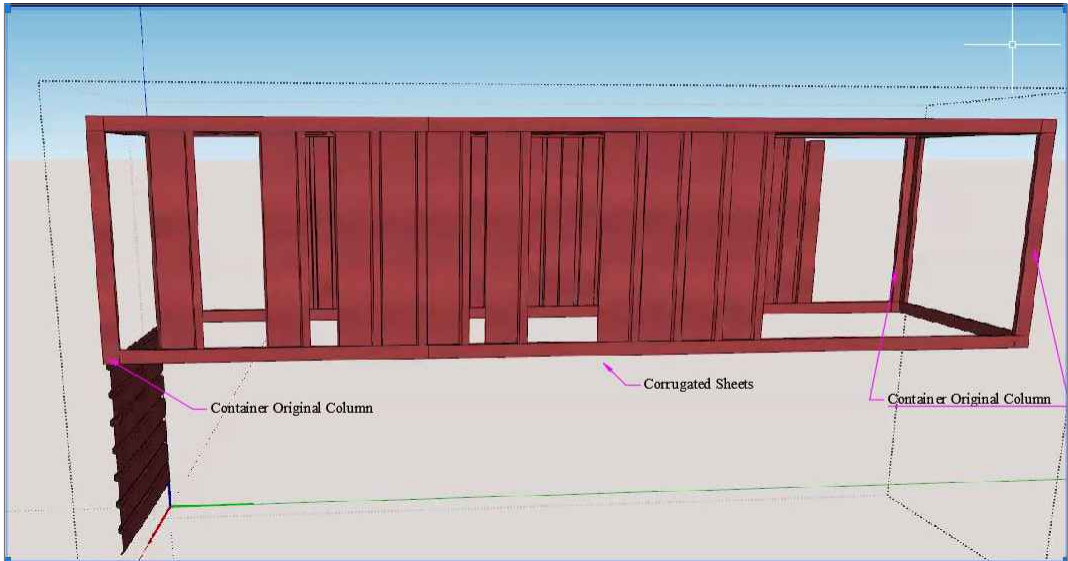
PUBLIC WORKS CONTRACT
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Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Steel Stair Details

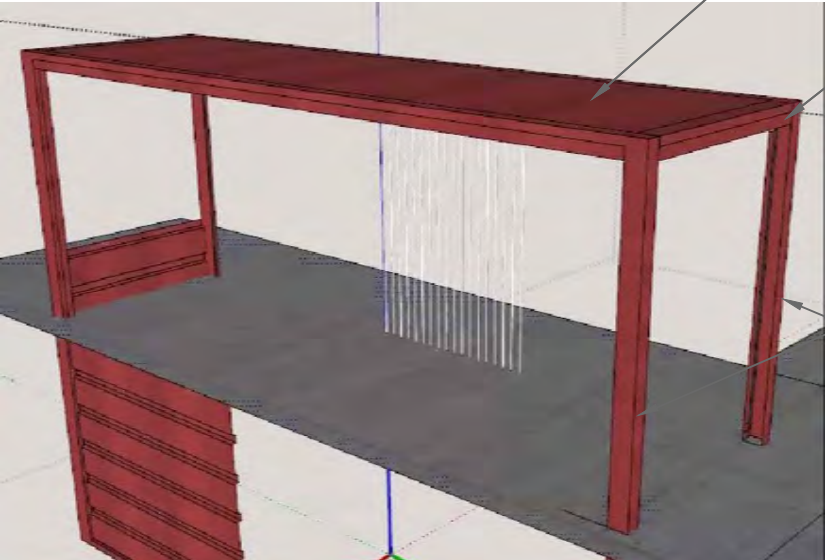
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Designed by:	NAME	M.Arch. Ibrahim Alhindi	
Checked by:	NAME	M.Arch. Ibrahim Alhindi	
Approved by:	NAME		
Coordinate Manager:	NAME		

Details of Container A



Note: Container A is composed of original members Where cover will be removed in certain locations as provided in Arch. drawings.

Details of Container B



Note: Container B is composed of original members Where cover will be removed in certain locations as provided in Arch. drawings.

Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:

SECTION NUMBER

REFERENCE SHEET NUMBER

REFERENCE DETAIL SHEET NUMBER

FLOOR FINISH LEVEL (F.F.L.)

REINFORCEMENT CONCRETE LEVEL (R.C.L.)

LEVEL SIGN IN PLAN

ROOM CODE

FUNCTION

ROOM ID

WINDOW NUMBER

REFERENCE DETAIL SHEET NUMBER

DOOR NUMBER

REFERENCE DETAIL SHEET NUMBER

ASPHALT

RC CONCRETE FOR COLUMNS

RC CONCRETE FOR WALLS

CONCRETE

STONE WALL

HOLLOW BLOCKS

CEMENT TILE

TERRAZZO TILE

LOCAL MARBLE

Interlock

Water Cooler

R.C.L.-REN. CONCRETE LEVEL

F.F.L.-FINISH FLOOR LEVEL

S.L. : SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:



Belgium

partner in development



This Project is Funded by

EUROPEAN UNION

Project Title:

PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'

Reference No.: PZA170421T-10029

Designed by:

Container A+B Details

Address email

Tel. Fax:

Sheet Name:

Scale: 1:100

Jan 2023

Designed by: NAME M.Arch. Ibrahim Alhadi

Checked by: NAME M.Arch. Ibrahim Alhadi

Approved by: NAME

Coordinate Manager: NAME

Drawing No: S15

Details of Container C

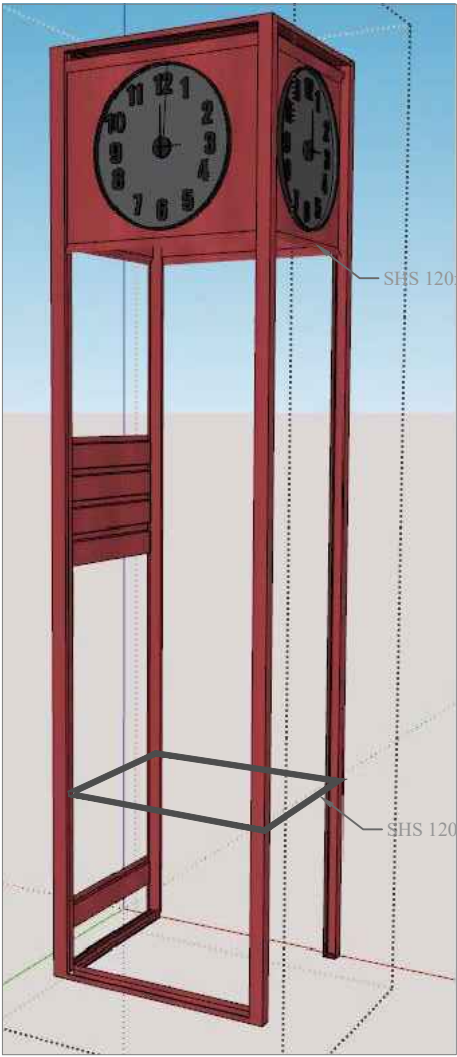
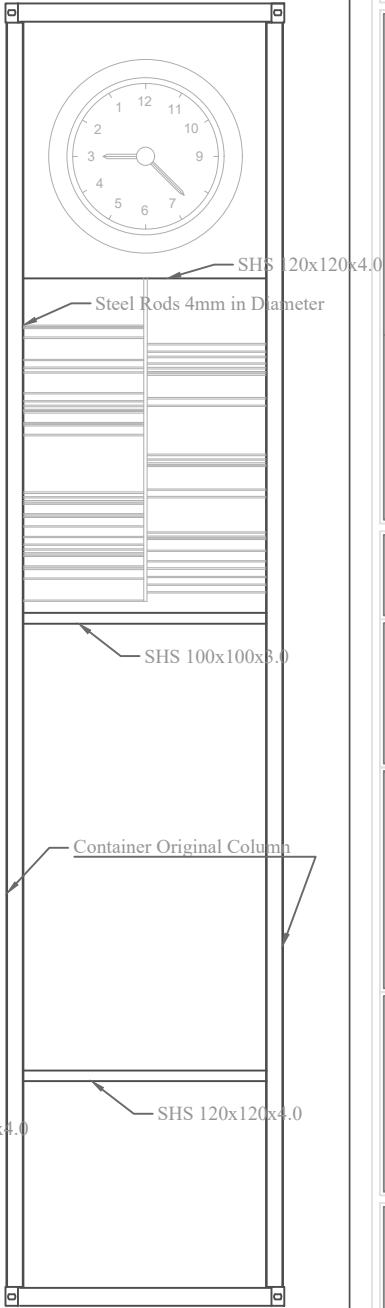
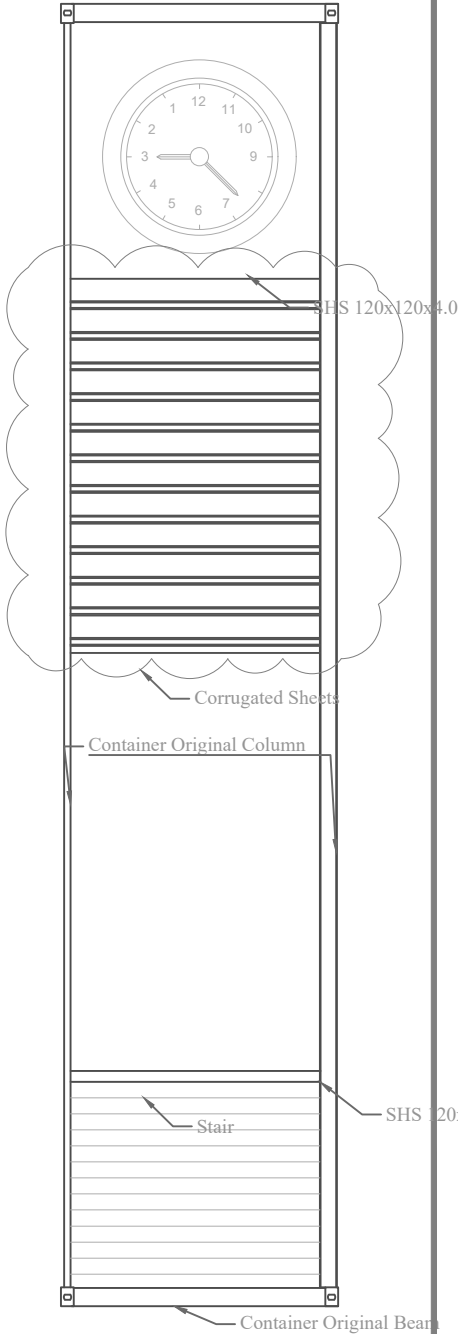
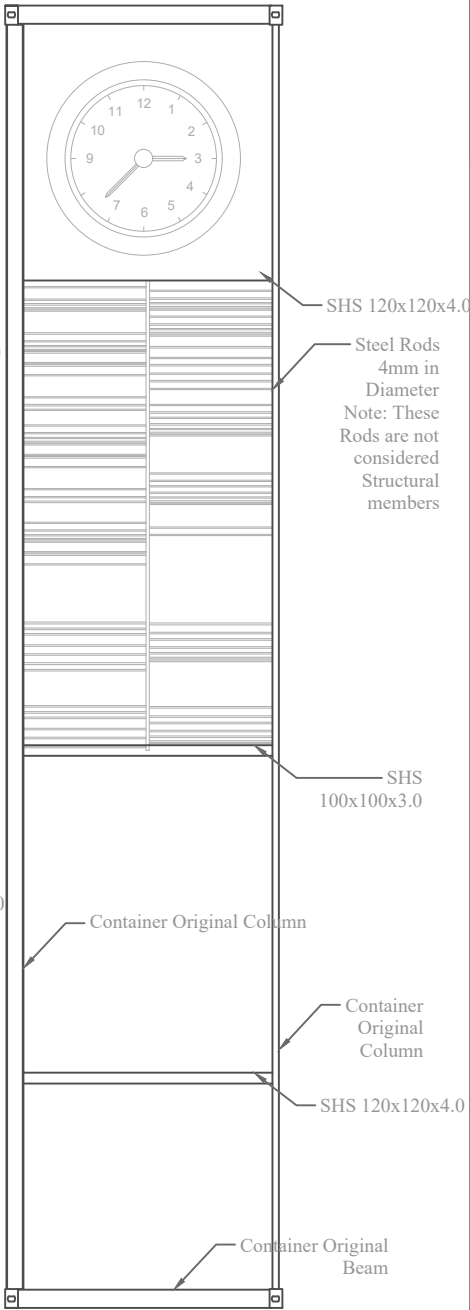


Figure: 3D of Container C



Notes

(1) All Dimensions Are In Cm.
(2) All Levels Are In Meter
(3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved By The Supervisor.

Legend:

SECTION NUMBER
REFERENCE SHEET NUMBER
REFERENCE DETAIL SHEET NUMBER
FLOOR FINISH LEVEL (F.F.L.)
REINFORCEMENT CONCRETE LEVEL (R.C.L.)
LEVEL SIGN IN PLAN
ROOM CODE
FUNCTION
ROOM ID
WINDOW NUMBER
REFERENCE DETAIL SHEET NUMBER
DOOR NUMBER
REFERENCE DETAIL SHEET NUMBER

ASPHALT
R.C. CONCRETE FOR COLUMNS
R.C. CONCRETE FOR WALLS
CONCRETE
STONE WALL
HOLLOW BLOCKS
CEMENT TILE
TERRAZZO TILE
LOCAL MARBLE
Interlock
Water Cooler
R.C.L. - R.N. CONCRETE LEVEL
F.F.L. - FINISH FLOOR LEVEL
S.L. - SEA LEVEL

REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:

Enabel - Belgian Development Agency

Funded By:

Belgium
partner in development
This Project is Funded by
EUROPEAN UNION

Project Title:

**PUBLIC WORKS CONTRACT
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Reference No.: PZA170421T-10029

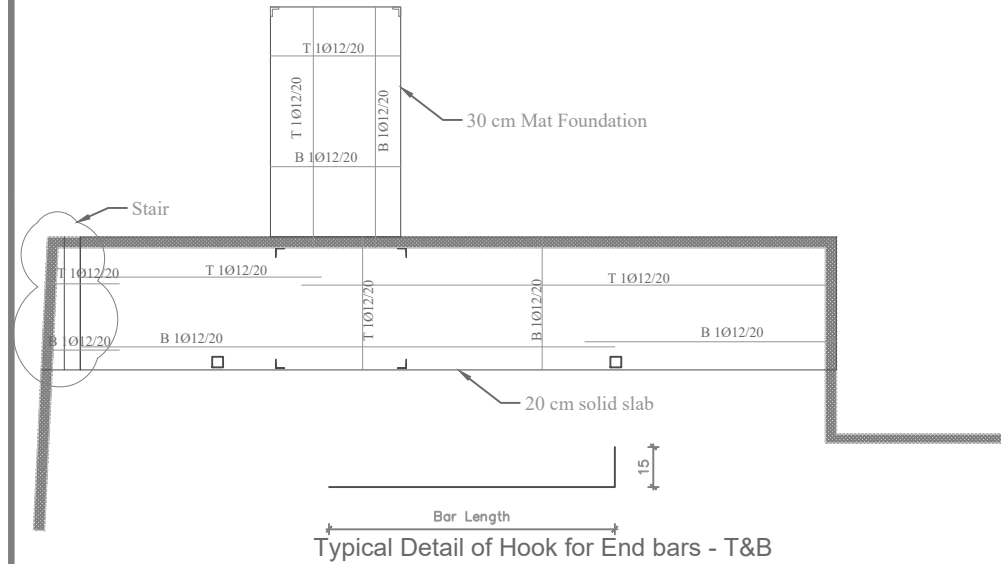
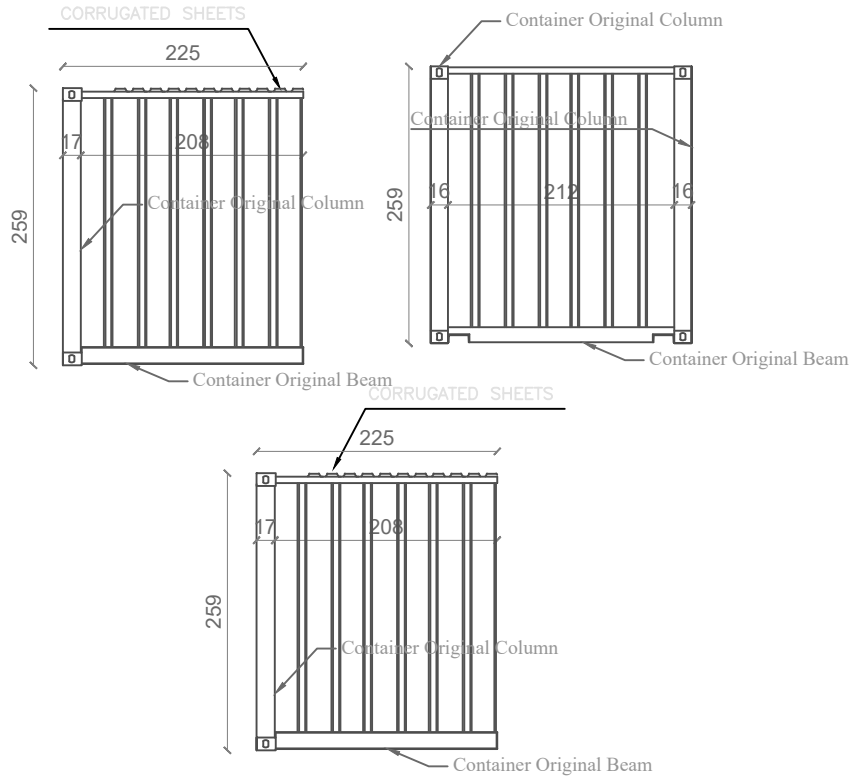
Designed by:

Container C Details

Address: email: Tel: Fac:

Sheet Name:		Date: Jan 2023
Designed by:	NAME M.Arch. Ibrahim Alhadi	Scale: 1:100
Checked by:	NAME M.Arch. Ibrahim Alhadi	Drawing No: S16
Approved by:	NAME	
Coordinate Manager:	NAME	

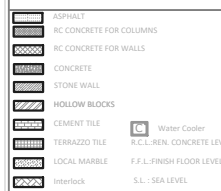
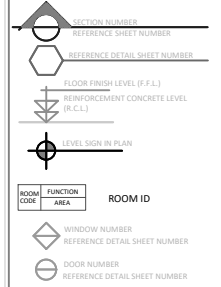
Details of Container D



Notes

- (1) All Dimensions Are In Cm.
- (2) All Levels Are In Meter
- (3) Any Missing or Unclear Detail And All Fastening Systems For All Elements Shall be Approved by The Supervisor.

Legend:



REVISIONS		
NO.	DRAWINGS	DATE
(1)		
(2)		
(3)		

Contracting Authority:



Enabel - Belgian Development Agency

Funded By:



Project Title:

**PUBLIC WORKS CONTRACT
for the Development of Semi-Public
Spaces in East Jerusalem'**

Reference No.: PZA170421T-10029

Designed by:

Container D Details

Address: email: Tel: Fax:

Sheet Name:		Date: Jan 2023
Designed by: NAME M.Arch. Ibrahim Alhindi		Scale: 1:100
Checked by: NAME M.Arch. Ibrahim Alhindi		Drawing No: S17
Approved by: NAME		
Coordinate Manager: NAME		