

# DRAWINGS

## الرسومات

Project : Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system  
in Tuban District / Lahj Governorate  
مشروع بناء وتجهيز وتأثيث مبنى الارشاد الزراعي والبيطري  
وتوريد نظام طاقة شمسية مديرية تبين محافظة لحج -



Project : Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system

in Tuban District / Lahj Governorate

مشروع بناء وتجهيز وتأثيث مبنى الارشاد الزراعي والبيطري  
وتوريد نظام طاقة شمسية مديرية تبن محافظة لحج -

## Architectural Plane

# المخططات المعمارية



جدول الرموز	
البيان	ر.م
موقع مبنى الإرشاد الزراعي والبيطري المقترح	A
مساحة فارغة للتوسيع المستقبلي	B
مبنى مؤقت تابع لمكتب الزراعة - مخازن	C
مبنى مؤقت تابع لمكتب الزراعة - مكاتب	D
مبنى مؤقت تابع لمكتب الزراعة - مخازن	E
مبنى الزراعة	F
اسفلق الطرق التي منقطة الزلزال المواتات والعيونت .. خلف المبنى المقترح	←

**KEY PLAN**

Existing Block Fence

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**

**Project :**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name :**  
 GENERAL SITE PLAN ON GOOGLE MAP

<b>DRAWING Type</b>	GENERAL
<b>DRAWING STATUS</b>	PLAN ON GOOGLE MAP
<b>SHEET NUMBER</b>	01
<b>Owner:</b>	Client:
<b>Designed:</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b> Arch-1	<b>Revision:</b>

جدول الرموز	
البيان	ر
موقع مبنى الرشاش الزراعي والبيطري المقترح	A
غسرة تفتيح أسمنتية 60*60سم	
غسرة تفتيح أسمنتية 40*40سم	
بيارة	
نموذج قبة	



Idx	X	Y	Z	Longitude	Latitude
X1	4849130.46	4143255.408	83.663	44° 54' 47.9141" E	13° 00' 22.8597" N
X4	490586.568	1437833.473	84.45	44° 54' 47.4883" E	13° 00' 22.6622" N
X3	490593.081	1437819.295	84.826	44° 54' 47.7047" E	13° 00' 22.2007" N
X2	4849130.46	4143255.408	84.475	44° 54' 47.5931" E	13° 00' 22.7108" N

**KEY PLAN**

- Existing Block Fence
- Manhole 40\*40 cm
- Manhole 60\*60 cm
- Sewage Pit

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office



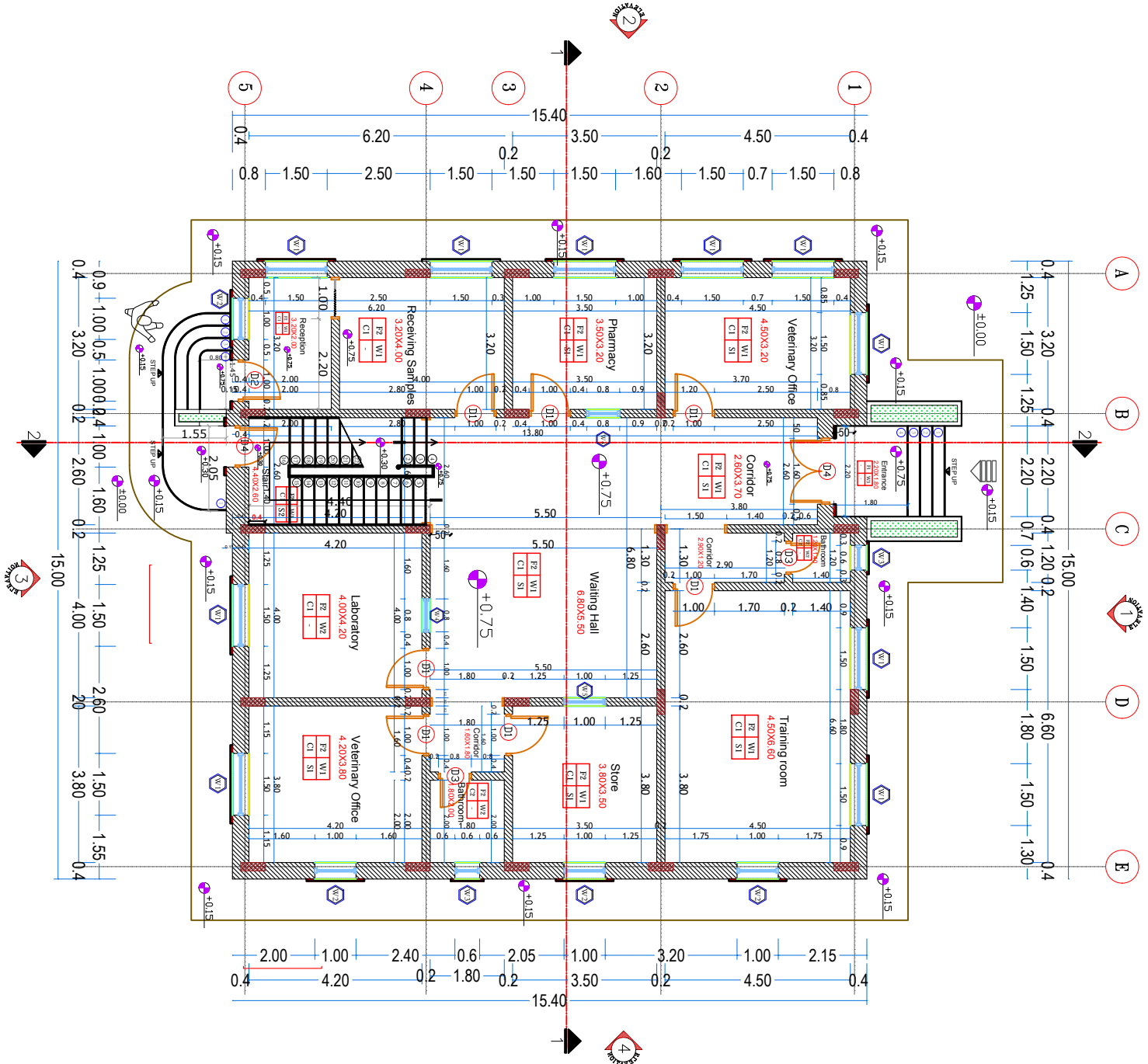
**Project :**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name :**  
 GENERAL SITE PLAN ON GOOGLE MAP

<b>DRAWING Type</b>	GENERAL
<b>DRAWING STATUS</b>	PLAN ON GOOGLE MAP
<b>SHEET NUMBER</b>	02
<b>Owner</b>	Project:
<b>Designed</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b>	<b>Revision:</b>

Arch-2





**KEY PLAN**

finishing of floor level specifications	
floor	ceiling
wall	skirt
skirting	ceiling
ceramic S1	cement plaster +Emission paint C1
Granite S2	cement plaster +acrylic paint C2
<b>Wall</b>	
Granite F1	cement plaster +oil paint W1
ceramic F2	ceramic W2
ceramic F3	Stone W3

**CLIENT**

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project :**  
Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)

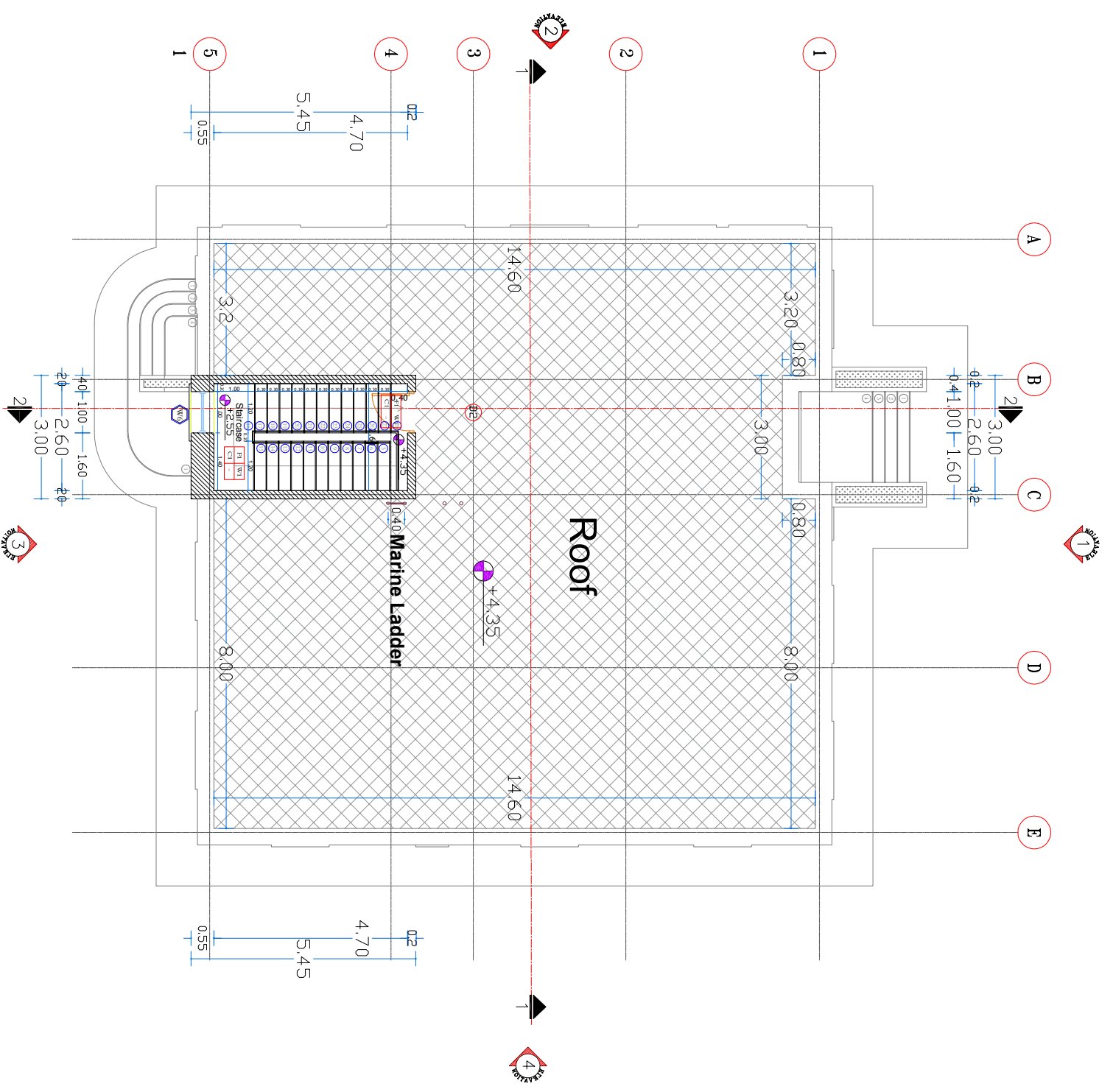
**Drawing Name :**  
Plan of Ground Floor



**Project :**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name :**  
Plan of Ground Floor

DRAWING Type	Architecture
DRAWING STATUS	Detailed
SHEET NUMBER	01
Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: Arch-04	Revision:



KEY PLAN

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



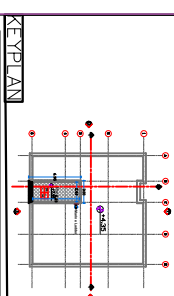
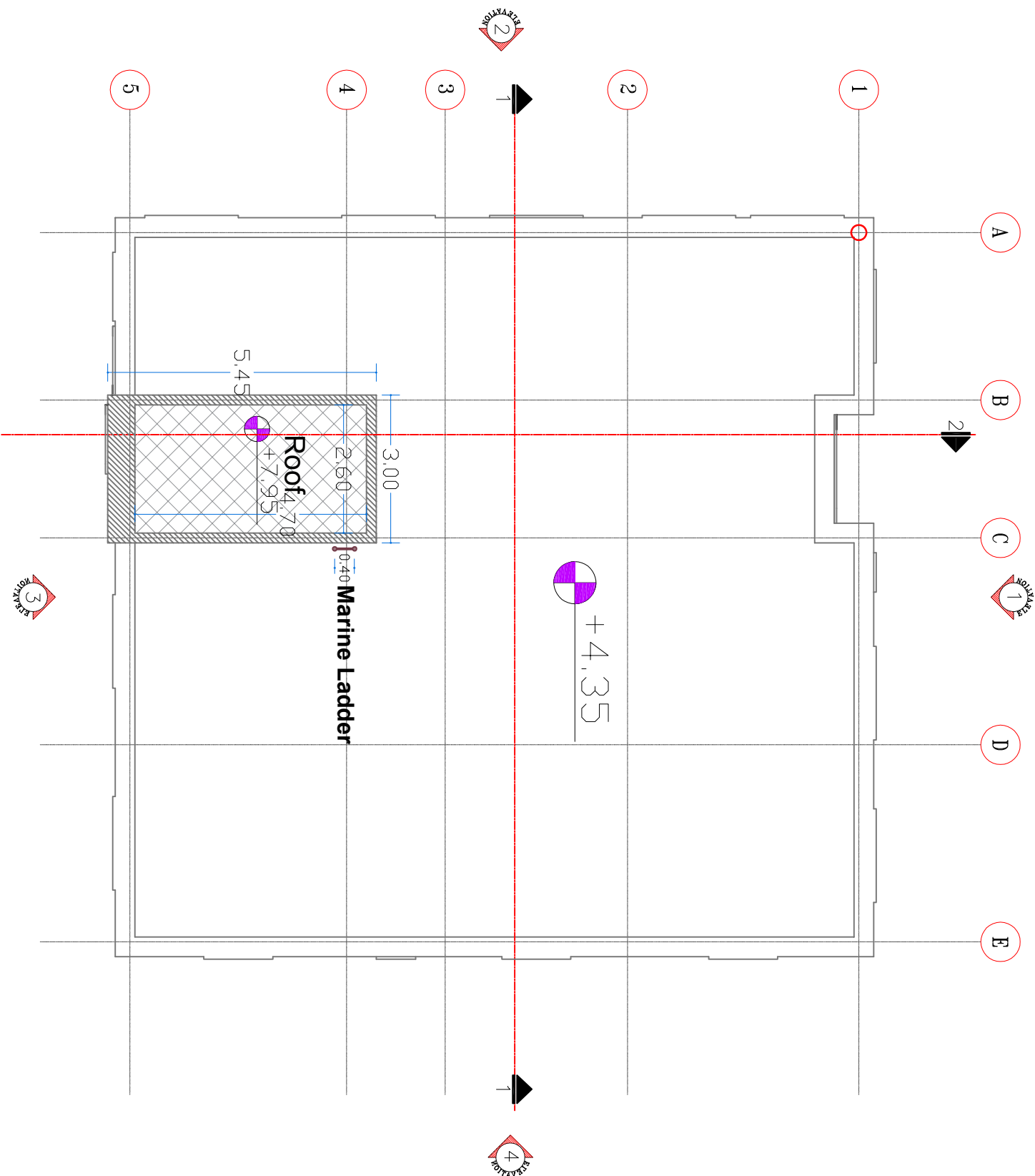
**Project:**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**

Plan of Roof Top

<b>DRAWING Type</b>	Architecture
<b>DRAWING STATUS</b>	Detailed
<b>SHEET NUMBER</b>	02
<b>Drawn:</b>	Checked:
<b>Designed:</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b>	<b>Revision:</b>

Arch-05



**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**

Plan of Stair Case Roof

**DRAWING Type** Architecture  
**DRAWING STATUS** Detailed  
**SHEET NUMBER** 03

**Drawn:** \_\_\_\_\_  
**Designed:** \_\_\_\_\_  
**Checked:** \_\_\_\_\_  
**Approved:** \_\_\_\_\_  
**Date:** 2024  
**Scale:** \_\_\_\_\_  
**Drawing Number:** Arch-06

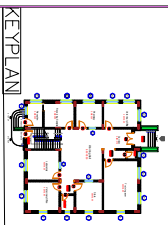
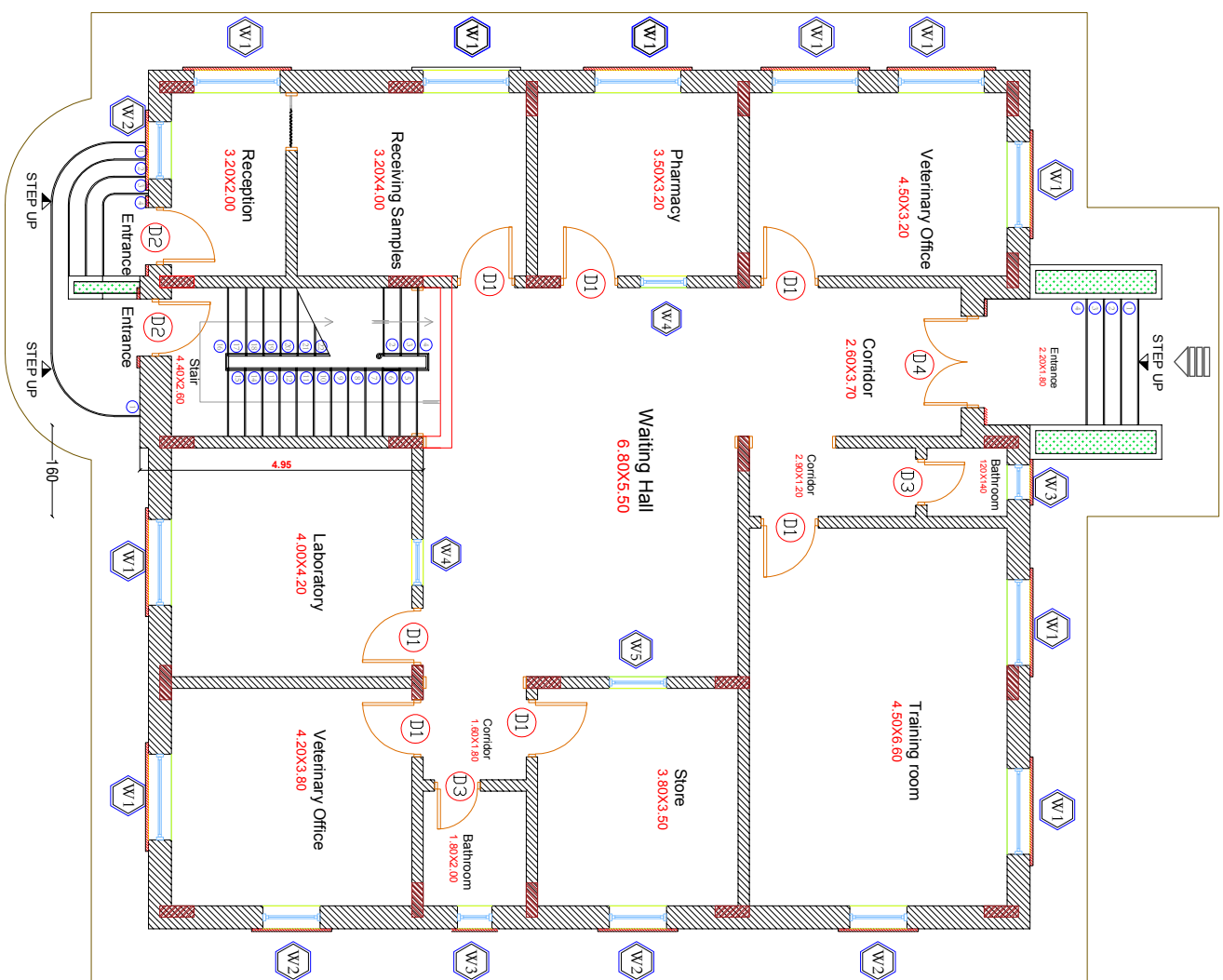


Door / Windows Schedule				
Type	Size	Sill	Details	No
W1	1.50x1.50	1.00	Aluminum	10
W2	1.20x1.50	1.00	Aluminum	4
W3	0.60x0.80	1.70	Aluminum	2
W4	0.80x1.50	1.00	Aluminum	2
W5	1.00x0.60	1.90	Aluminum	1
W6	1.00x3.20	0.70	Aluminum	1
D1	1.00x2.10	0.00	Wooden	7
D2	1.00x2.10	0.00	Steel	2
D3	0.80x2.10	0.00	Aluminum	2
D4	1.60x2.50	0.00	Steel	1
D5	1.0x2.10	0.00	Steel	1

**Doors Notes**  
Doors type must be designed for laboratory providing high hygiene and visibility  
Doors must be lockable and have a vision panel to see into the laboratory  
Doors must be self-closing and fire ratings  
Doors should be secured against the entry of pests and insects

**Windows Notes**  
Windows should preferably be sealed and if they are operable they must be designed to prevent insects or vermin entering the laboratory and they should be lockable

**IMPORTANT NOTE:**  
The contractor and construction engineers must take care that the detailed windows doors dimensions to be clear after plaster or sub-frame (2cm ), this mean that block work dimensions to be larger than the shown dimensions.



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**  
Doors and Windows of Ground Floor



**CLIENT**  
REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:
<b>DRAWING TYPE</b>	Architecture
<b>DRAWING STATUS</b>	Plan
<b>SHEET NUMBER</b>	04

Door / Windows Schedule				
Type	Size	Sill	Details	No
W1	1.50x1.50	1.00	Aluminium	10
W2	1.20x1.50	1.00	Aluminium	4
W3	0.60x0.80	1.70	Aluminium	2
W4	0.80x1.50	1.00	Aluminium	2
W5	1.00x0.60	1.90	Aluminium	1
W6	1.00x3.20	0.70	Aluminium	1
D1	1.00x2.10	0.00	Wooden	7
D2	1.00x2.10	0.00	Steel	2
D3	0.80x2.10	0.00	Aluminium	2
D4	1.60x2.50	0.00	Steel	1
D5	1.0x2.10	0.00	Steel	1

#### Doors Notes

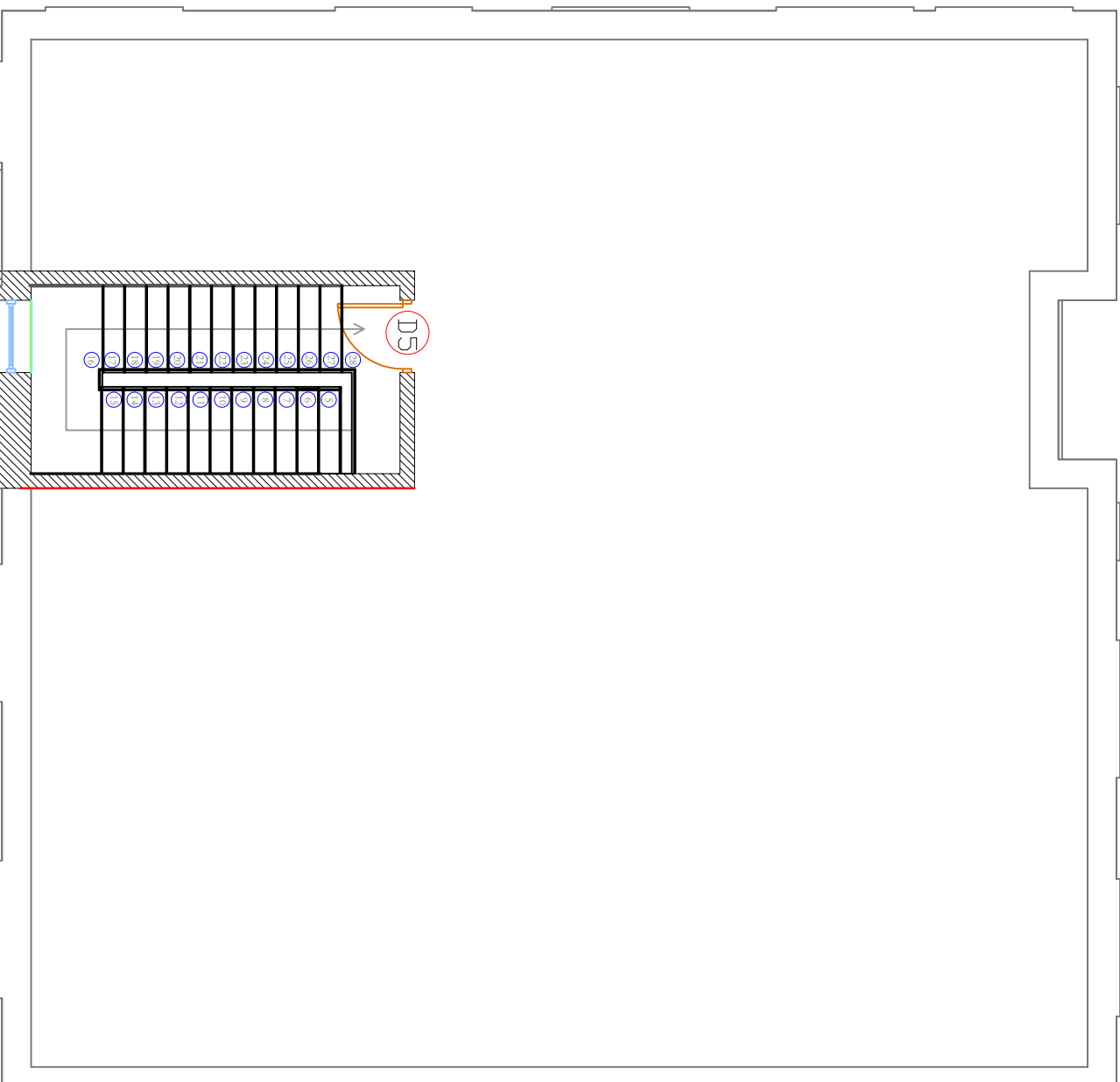
Doors type must be designed for laboratory providing high hygiene and visibility  
Doors must be lockable and have a vision panel to see into the laboratory  
Doors must be self-closing and fire ratings  
Doors should be secured against the entry of pests and insects

#### Windows Notes

Windows should preferably be seated and if they are openable they must be designed to prevent insects or vermin entering the laboratory and they should be lockable

#### IMPORTANT NOTE:

The contractor and construction engineers must take care that the detailed windows doors dimensions to be clear after plaster or sub-frame (2cm ), this mean that block work dimensions to be larger than the shown dimensions.



#### KEY PLAN



#### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



#### Project :

Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

#### Drawing Name :

**Doors and Windows  
Stair Case Floor Plan**

**DRAWING TYPE** Architecture

**DRAWING STATUS** Plan

**SHEET NUMBER** 05

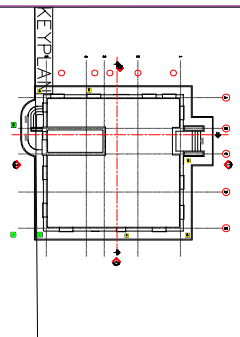
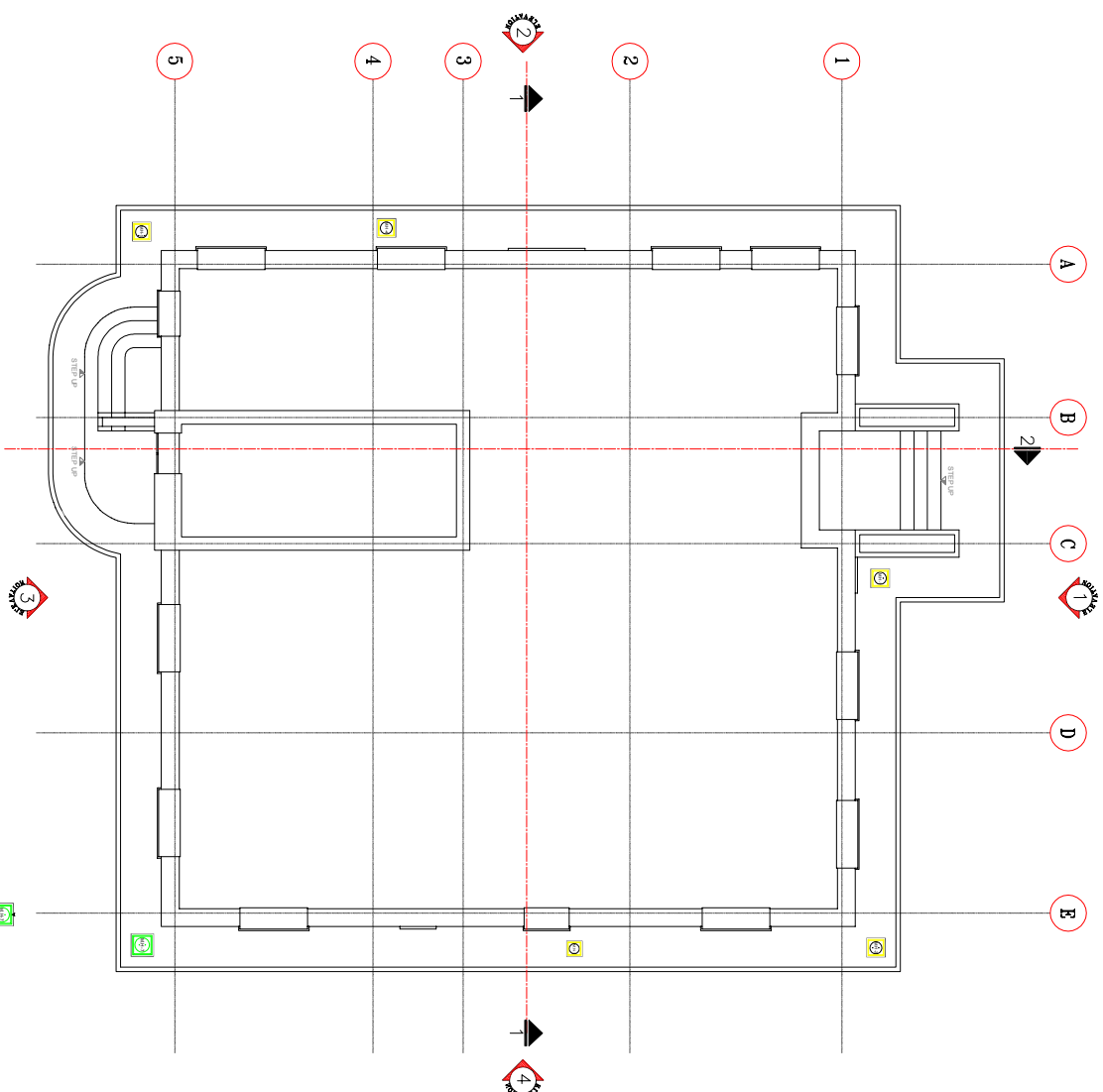
**Drawn:** / **Checked:**




**Designed:** / **Approved:**

**Date:** 2024 / **Scale:**

**Drawing Number:** / **Revision:**

Arch-08



-  Manhole 40\*40 cm
-  Manhole 60\*60 cm
-  Sewage Pit

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



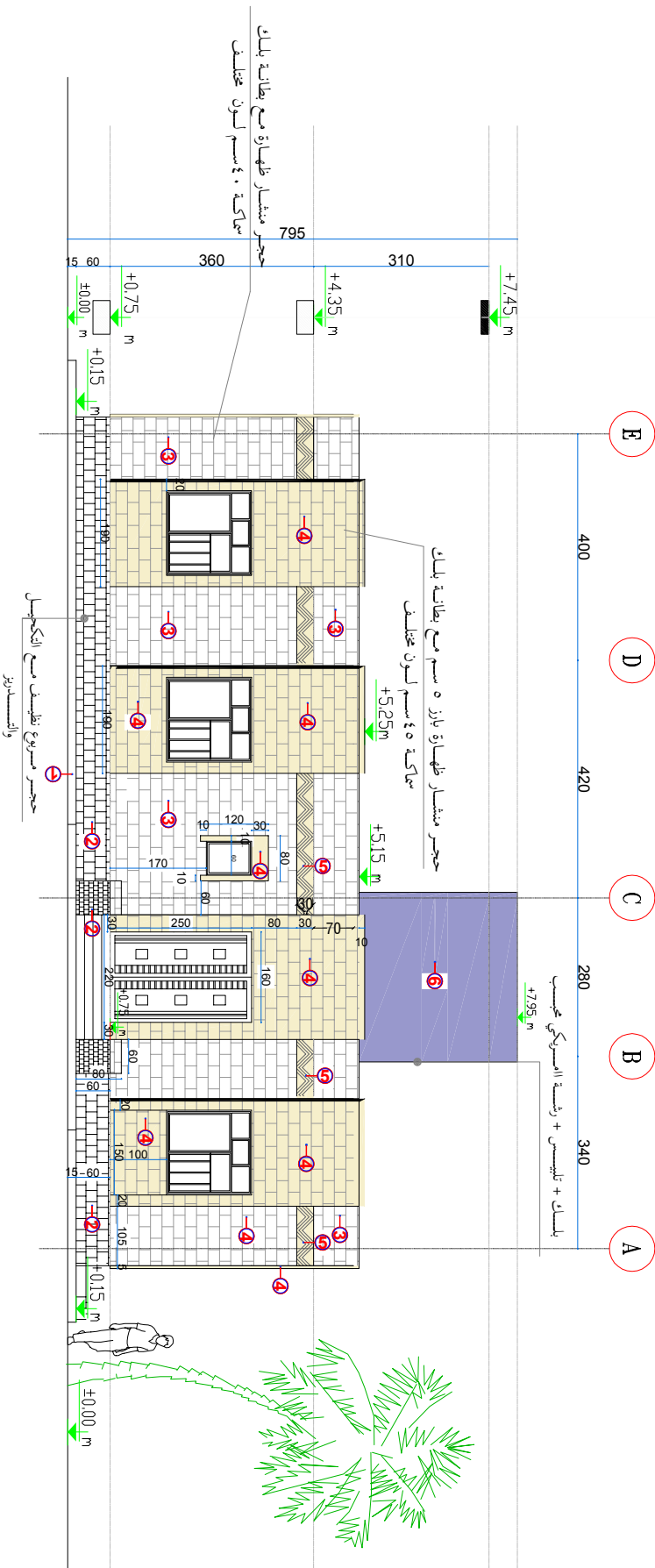
**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:** Site Plan

<b>DRAWING TYPE</b>	Architecture
<b>DRAWING STATUS</b>	Plan
<b>SHEET NUMBER</b>	06
<b>Drawn:</b>	Checked:
<b>Designed:</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b>	<b>Revision:</b>

Arch-09

1	رسيڤه جديده و جسر ص 1 ه و ارتفاع 15 سم من مستطوي مستطيل الارض
2	ممراتى جديده اسبوج و سرائلى او جايه لافله مسدود مع السحور والنجافه
3	ممراتى جديده طمسافه جديده مع ممراتى و طمسافه من السطك 20 سم
4	ممراتى جديده طمسافه جديده و سون معلقه و مسدود 5 سم و جديده ممراتى الجديده و عرض كامل المسحافه
5	ممراتى جديده طمسافه جديده و سون و مسدود 5 سم و جديده طمسافه جديده و مسدود 5 سم
6	ممراتى و بك مخرق مسك 20 سم و مسك الجديده و المسحافه الجديده الجديده المسكافه الجديده



Elevation #1

KEY PLAN

+XXX Level of part from the Existing ground level in meter

Note:  
Units of this sheet is centimeter excepted that mention

**CLIENT**  
REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**





**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

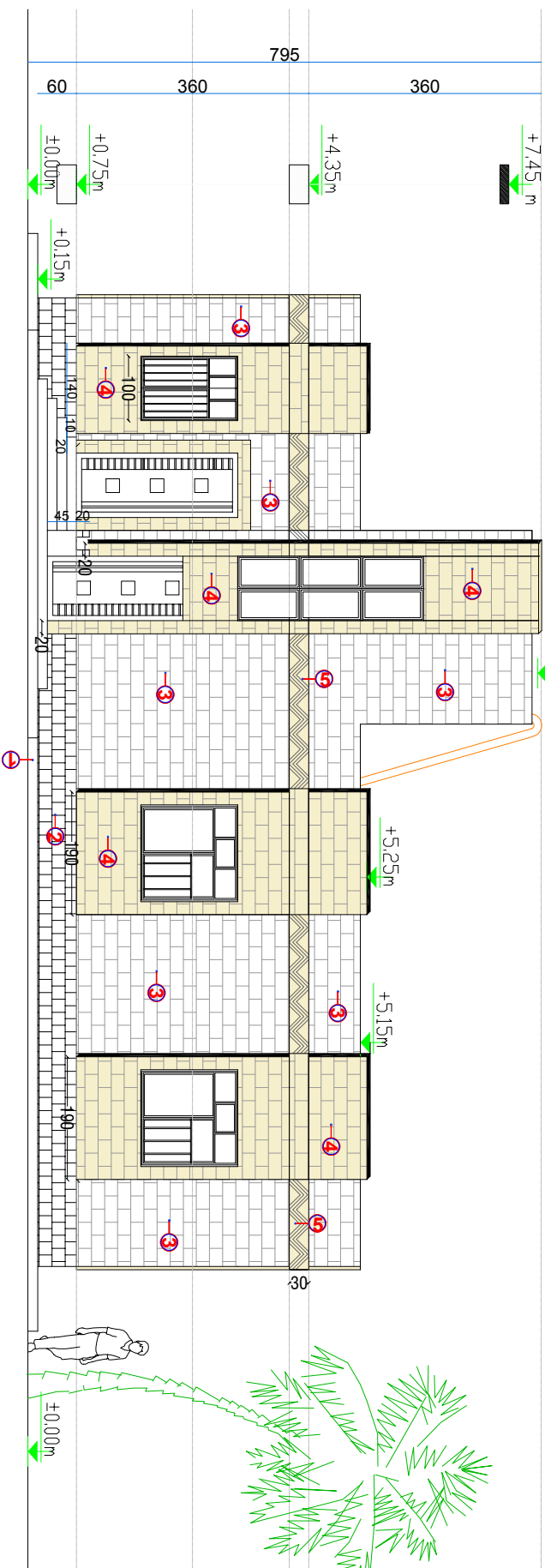
**Drawing Name:**  
Elevation#1

<b>DRAWING TYPE</b>	Architecture
<b>DRAWING STATUS</b>	Plan
<b>SHEET NUMBER</b>	07
<b>Drawn:</b>	Checked:
<b>Designed:</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b>	<b>Revision:</b>

Arch-10



1	رصفية خارجية وعرض 1.5 متر ارتفاع 15 سم من مستوى سطح الأرض
2	جوانب حجر اسود وازلي أو ألبانسة مرسوم مع الحوز والظلمة
3	جوانب حجر طمارة منشار مع جوانب بلاطة من البلاط 20 سم
4	جوانب حجر طمارة منشار بدون مختلف مع ويزر 5 سم ووضوح فني منطبق القياس مع عرض كامل المساحة الظاهر
5	جوانب حجر طمارة منشار شيزلون وتحت حيلة مختلفة بارتفاع 30 سم ويزر 5 سم
6	جوانب بلاط منقر مسك 20 سم مع البلاط المسطحة البلاستيكية المقواة للظلمة



Elevation #3

KEY PLAN

+XXX Level of part from the Existing  
 ground level in meter

Note:  
 Units of this sheet is centimeter  
 excepted that mention

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office



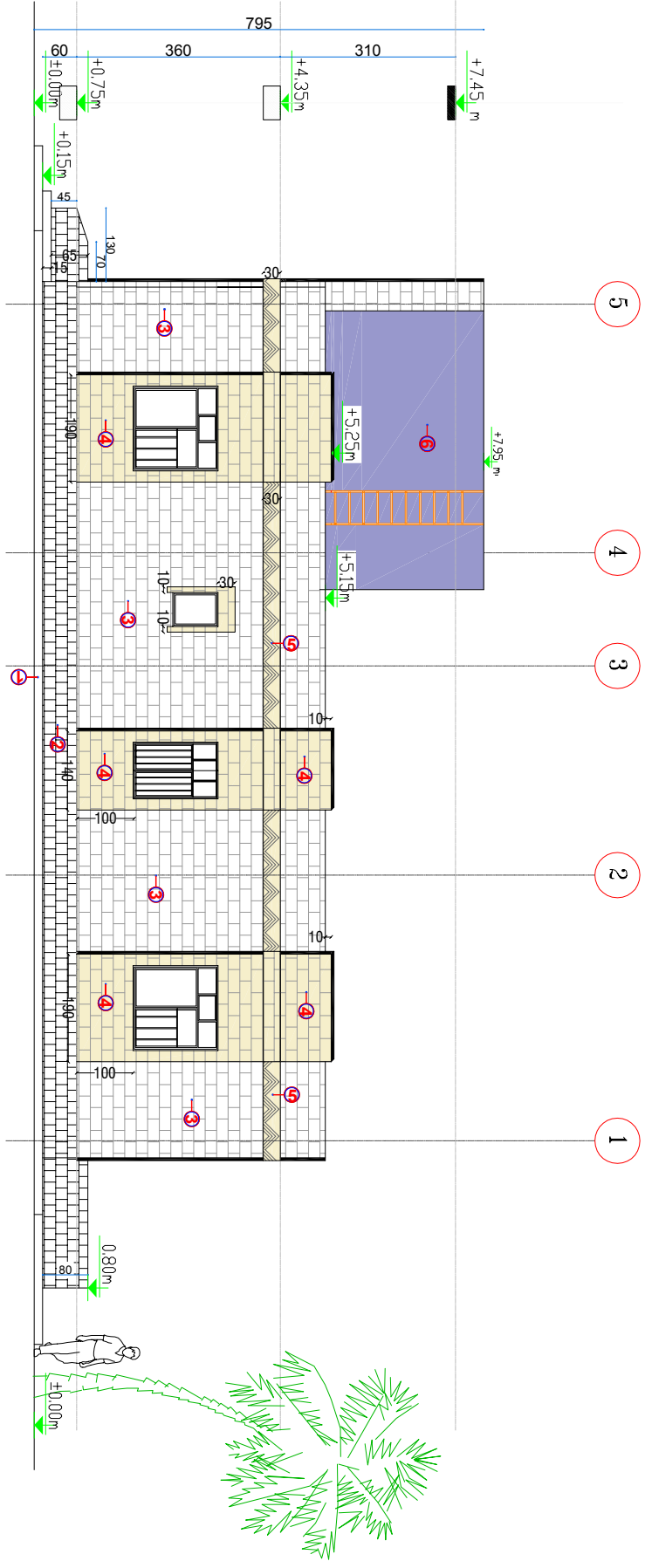
**Project:**  
 Establishing, equipping and furnishing the  
 agricultural and veterinary extension center,  
 installing a solar energy system in Tuban  
 District, Lahj Governorate

**Drawing Name:**  
 Elevation#3

**DRAWING Type** Architecture  
**DRAWING STATUS** Plan  
**SHEET NUMBER** 09

Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Designed: \_\_\_\_\_  
 Approved: \_\_\_\_\_  
 Date: 2024  
 Scale: \_\_\_\_\_  
 Drawing Number: Arch-12  
 Revision: \_\_\_\_\_

1	رسميولة عمارة ورسولي 1 ه وارزفستال 15 مة مة مستطوي مستطوي الارض
2	موياني ميمر اسويوت وباركزي او مامامامامام ميمرودي ميمر السطور والخطية
3	موياني ميمر مامامامام ميمرودي ميمرودي ميمر الليلك 20 مة
4	موياني ميمر مامامامام ميمرودي ميمرودي ميمر ووسطيا ووسني مامامامام المامامام ميمرودي ميمرودي ميمر الظاهر
5	موياني ميمر مامامامام ميمرودي ميمرودي ميمر ميتالميمر وارزفستال 30 مة ووسرور 5 مة
6	موياني ميمر مامامامام ميمرودي ميمرودي ميمر والسحامام المامامامام المامامام المامامام



Elevation #4

KEY PLAN

+XXX Level of part from the Existing ground level in meter

Note:  
Units of this sheet is centimeter excepted that mention

**CLIENT**  
REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**  
Elevation#4

<b>DRAWING Type</b>	Architecture
<b>DRAWING STATUS</b>	Plan
<b>SHEET NUMBER</b>	10
Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:

KEY PLAN

+X.XX Level of part from the Existing ground level in meter

Note:  
Units of this sheet is centimeter excepted that mention

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**

Cross Section 1-1

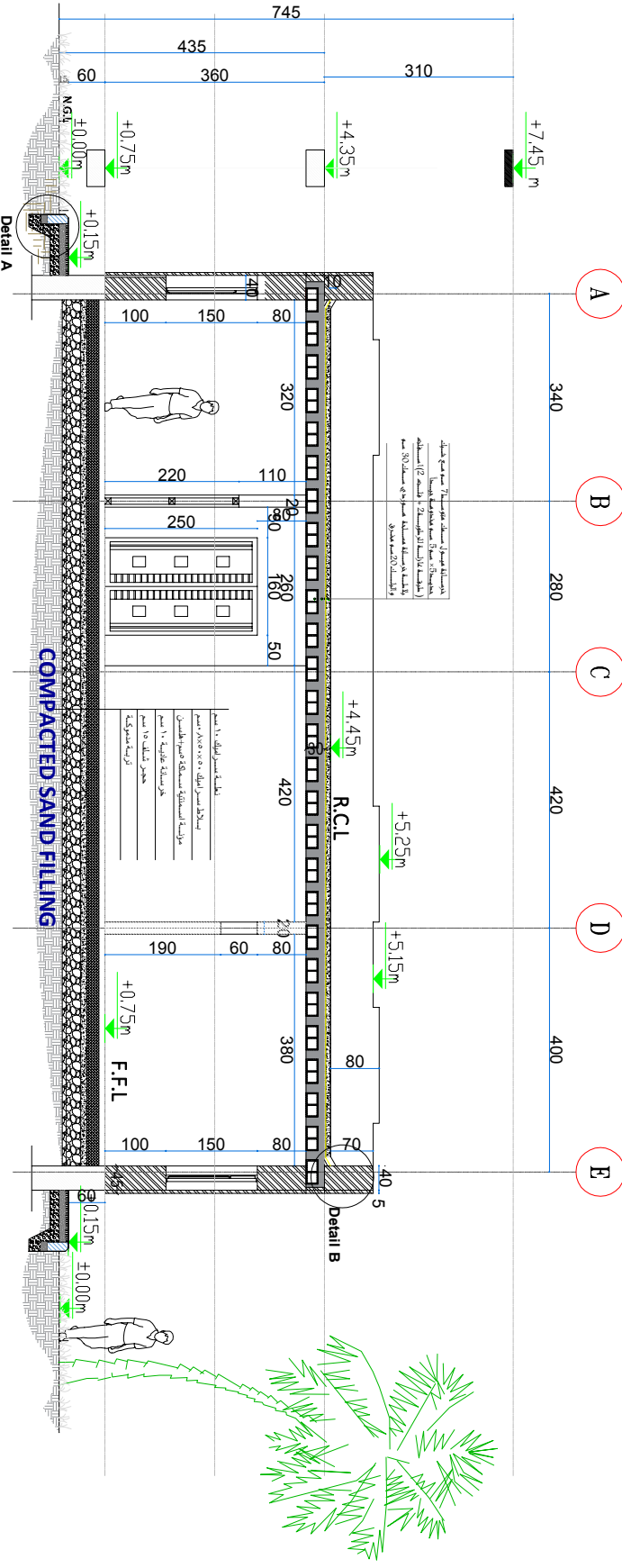
**DRAWING Type**  
Architecture

**DRAWING STATUS**  
Cross Section

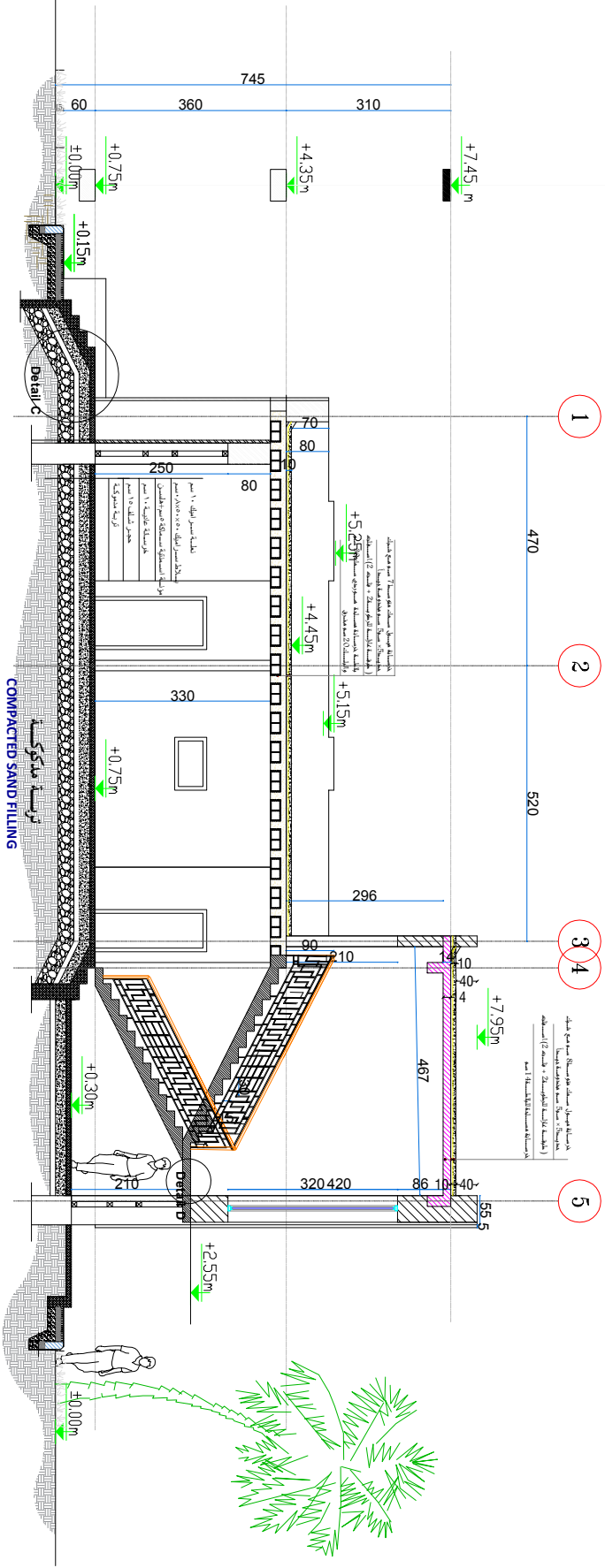
**SHEET NUMBER**  
11

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:

Cross Section 1-1







Cross Section 2-2

KEY PLAN

+XXX Level of part from the Existing ground level in meter

Note:  
Units of this sheet is centimeter excepted that mention

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Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project :**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

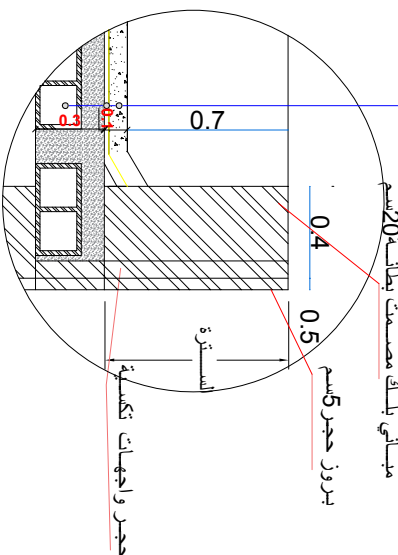
**Drawing Name :**  
Cross Section 2-2

<b>DRAWING Type</b>	Architecture
<b>DRAWING STATUS</b>	Cross Section
<b>SHEET NUMBER</b>	12
<b>Drawn:</b>	Checked:
<b>Designed:</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b> Arch-15	<b>Revision:</b>



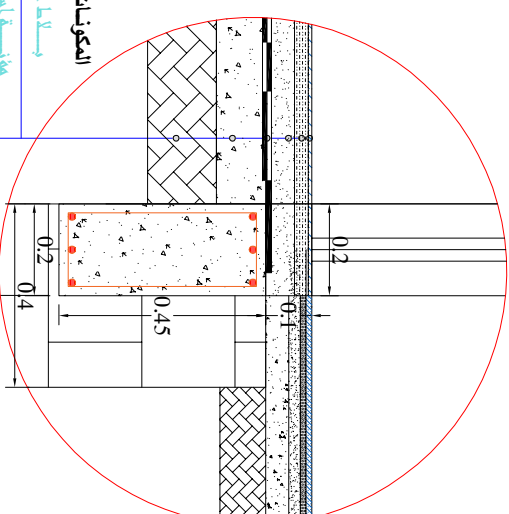
KEY PLAN

تفاصيله للسحارة والارتفاع 10 سم  
خرسانة مقبول من 7.5 سم  
طبقة طبقاته على الخرطوم والارتفاع  
معاينة مع على الحارة القلعة  
طبقة خرسانة مسالة موزونة  
سمك 30 سم والارتفاع 20 سم مخزن



## Detail B

تفاصيله السطح  
Detail of roof



## Detail of toilet floor

المكونات من أعلى  
وساطة إسبالت 0.6 سم  
مؤونة إسبالت 3 سم  
طاسن 5 سم  
طبقة طبقاته على الخرطوم والارتفاع  
معاينة مع على الحارة القلعة  
خرسانة مازونة مسالة 10 سم  
بجر حوائج مسك 15 سم  
تأريفة مازونة جيما

تفاصيله الأرضيات الحمامات

Note:  
Units of this sheet is centimeter  
excepted that mention

### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and  
Economic Resilience in Yemen (SIERY)



Project :  
Establishing, equipping and furnishing the  
agricultural and veterinary extension center,  
installing a solar energy system in Tuban  
District / Lahj Governorate

Drawing Name :

Architecture Details 2

DRAWING Type Architecture

DRAWING STATUS Detailed

SHEET NUMBER 14

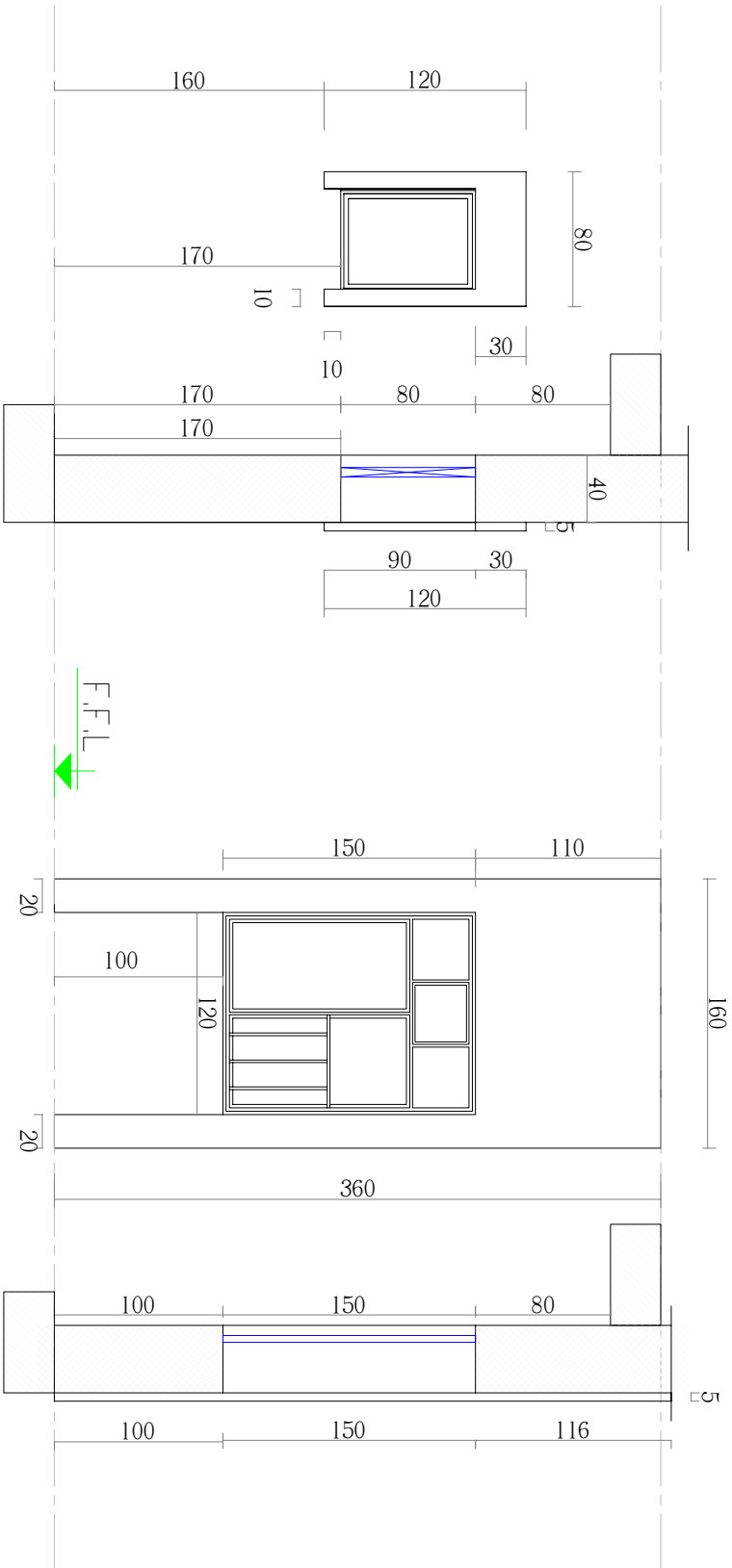
Drawn: Checked:

Designed: Approved:

Date: 2024

Drawing Number: Arch-17

Revision:



## Details Facade

KEY PLAN

**Note:**  
Units of this sheet is meter  
excepted that mention

### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

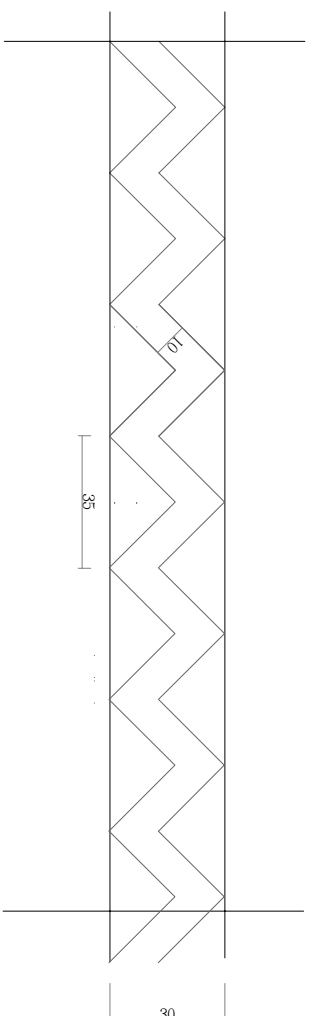
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Architecture Details 3

**DRAWING Type**  
Architecture

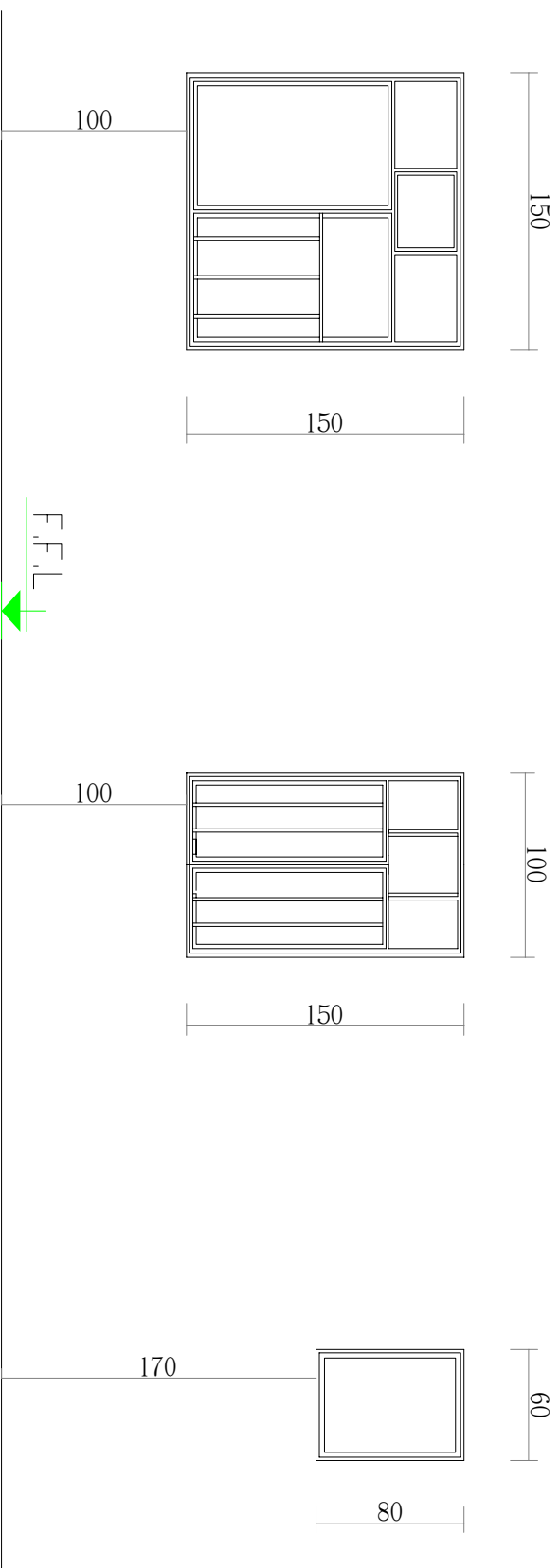
**DRAWING STATUS**  
Detailed

**SHEET NUMBER**  
15

Drawn: \_\_\_\_\_  
Designed: \_\_\_\_\_  
Date: 2024  
Scale: \_\_\_\_\_  
Drawing Number: Arch-18



## Details Facade



## Details Facade

KEY PLAN

**Note:**  
Units of this sheet is meter  
excepted that mention

### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**  
Architecture Details 4

**DRAWING Type**  
Architecture

**DRAWING STATUS**  
Detailed

**SHEET NUMBER**  
16

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:

Arch-19





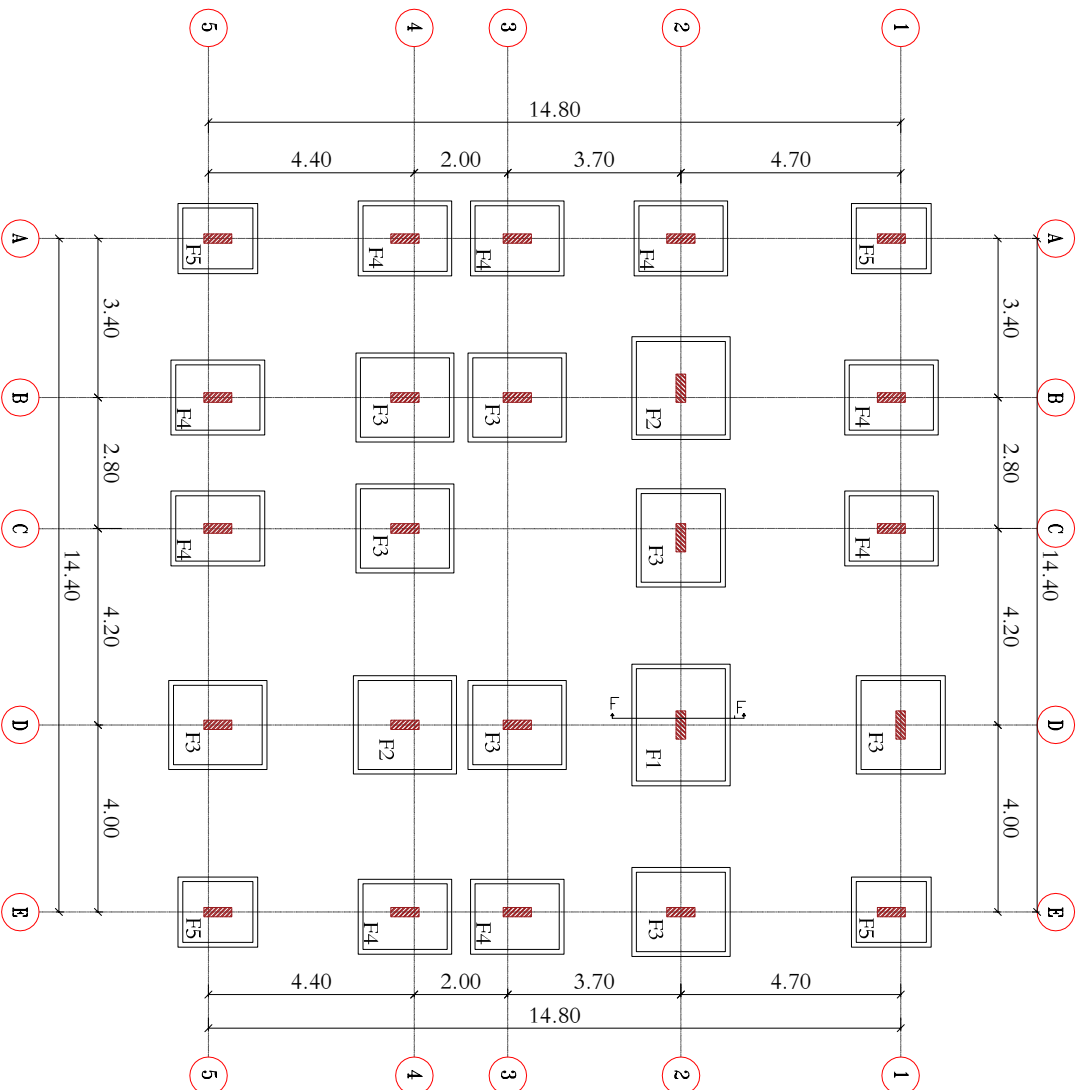
Project : Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system

in Tuban District / Lahj Governorate

مشروع ببناء وتجهيز وتأثيث مبنى الارشاد الزراعي والبيطري  
وتوريد نظام طاقة شمسية مديرية تبن محافظة لحج -

## Structural Plane

# المخططات الإنشائية



جدول أبعاد وتبليغ القواعد

القواعد		التبليغ		الأبعاد		الرمز	
Short Dir.	Long Dir.	Short Dir.	Long Dir.	عمق التبلغ (م)	عرض التبلغ (م)	عمق التبلغ (م)	عرض التبلغ (م)
Short Dir.	Long Dir.	Short Dir.	Long Dir.	(mm)	(mm)	(mm)	(mm)
3Ø16mm	3Ø16mm	9Ø16/m	10Ø16/m	0.60	1.90	2.40	0.102.20
2Ø16mm	3Ø16mm	6Ø16/m	9Ø16/m	0.60	1.90	2.00	0.102.20
2Ø16mm	3Ø16mm	6Ø16/m	7Ø16/m	0.60	1.70	1.90	0.102.10
2Ø16mm	3Ø16mm	6Ø16/m	6Ø16/m	0.60	1.40	1.80	0.101.60
2Ø16mm	3Ø16mm	5Ø16/m	5Ø16/m	0.60	1.30	1.50	0.101.50

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



Project:

Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

Drawing Name:

Footring

DRAWING TYPE

Structural

DRAWING STATUS

Plan

SHEET NUMBER

01

Drawn: \_\_\_\_\_

Designed: \_\_\_\_\_

Checked: \_\_\_\_\_

Approved: \_\_\_\_\_

Date: 2024

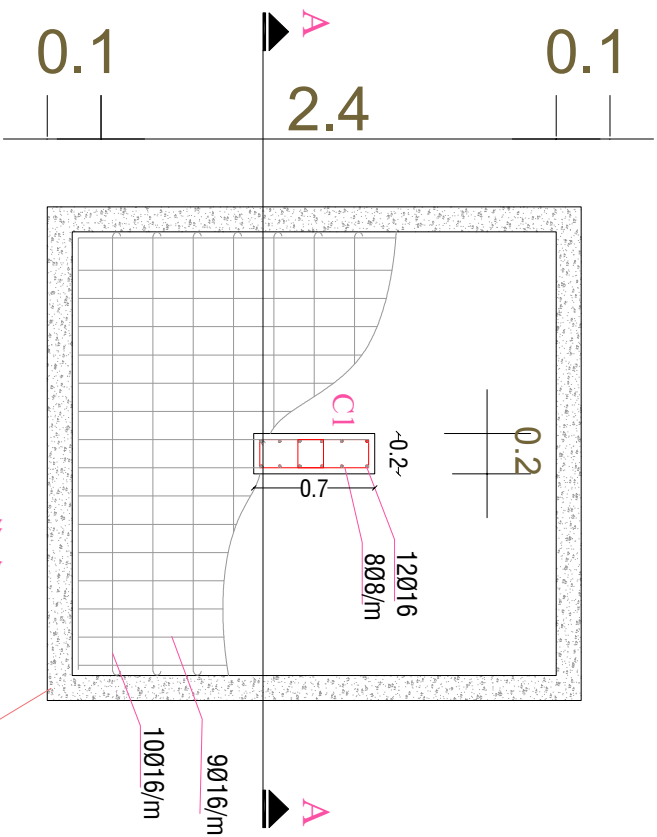
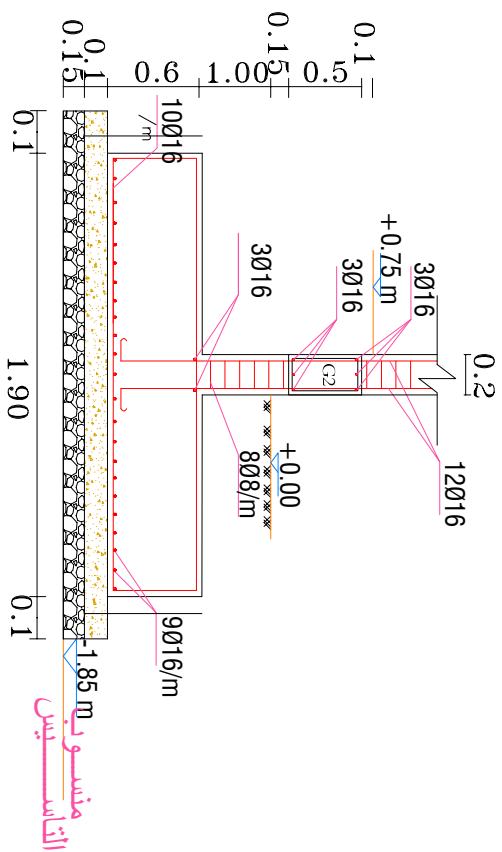
Scale: \_\_\_\_\_

Drawing Number: \_\_\_\_\_

Revision: \_\_\_\_\_

Str.01





تفصيله للقاعدة F1  
خرسانه عاديه

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



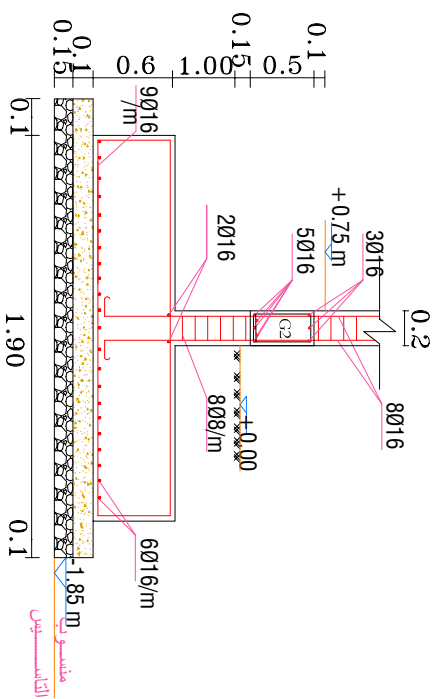
**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**  
Footing

Structural

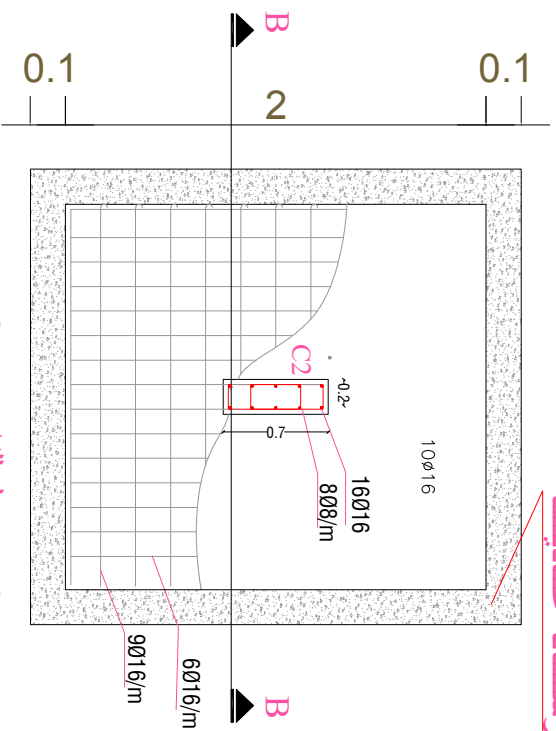
**DRAWING TYPE**  
Structural  
**DRAWING STATUS**  
Plan  
**SHEET NUMBER**  
01

Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Designed: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Date: 2024  
Scale: \_\_\_\_\_  
Drawing Number: Str-01-1  
Revision: \_\_\_\_\_

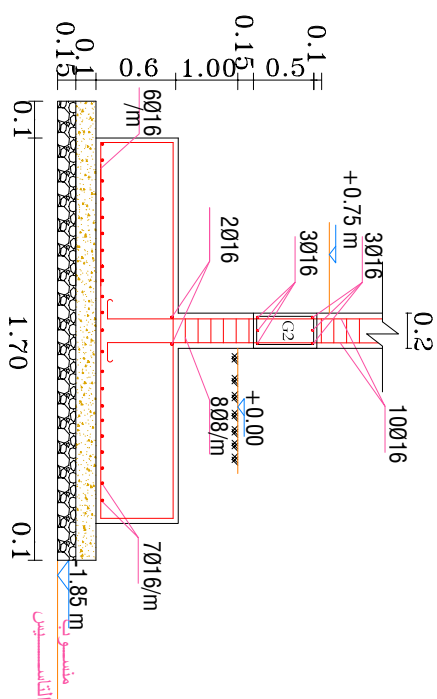


Section B-B

خرسانه عاديه

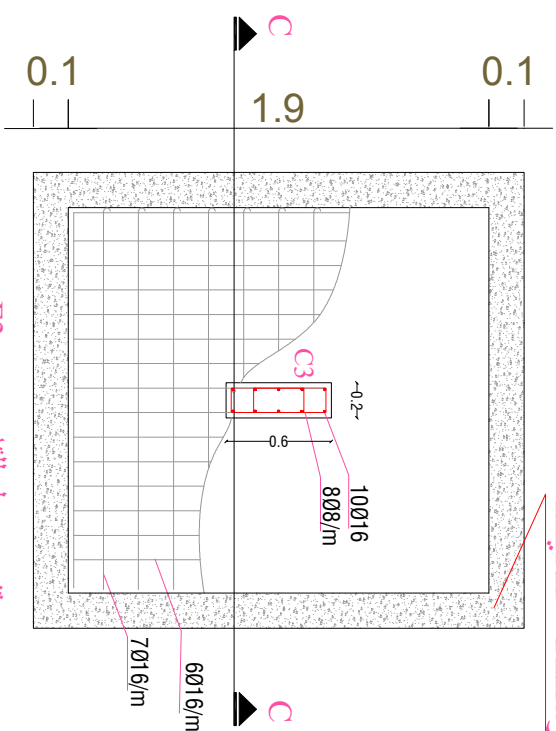


تفصيله للقاعده F2



Section C-C

خرسانه عاديه



تفصيله للقاعده F3

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



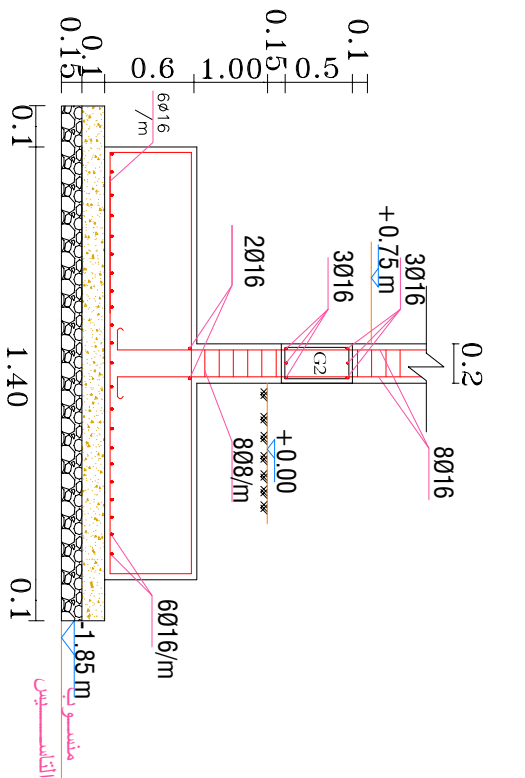
**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**

Footings

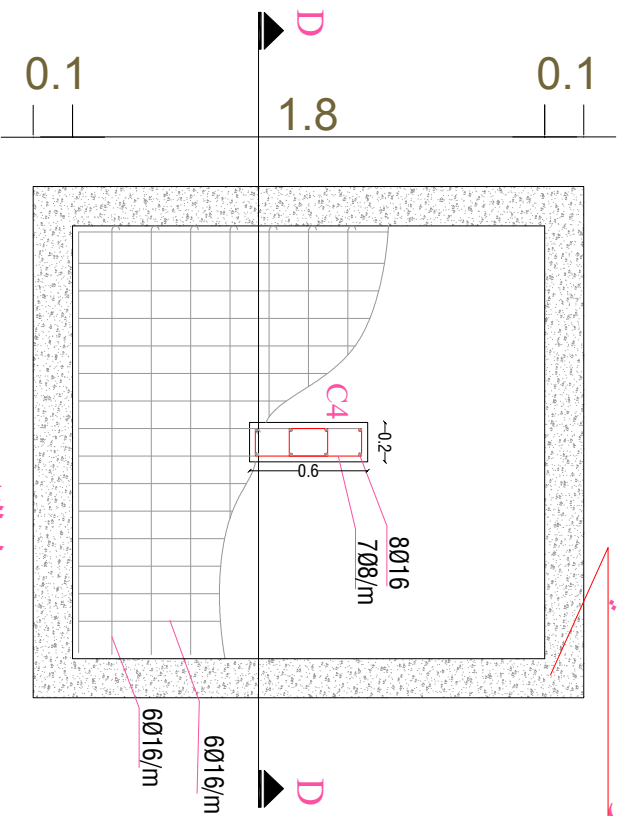
**DRAWING Type**  
Structural  
**DRAWING STATUS**  
Plan  
**SECRET NUMBER**  
01

**Drawn:**  
**Designed:**  
**Checked:**  
**Approved:**  
**Date:** 2024  
**Scale:**  
**Drawing Number:** Str-01-2  
**Revision:**

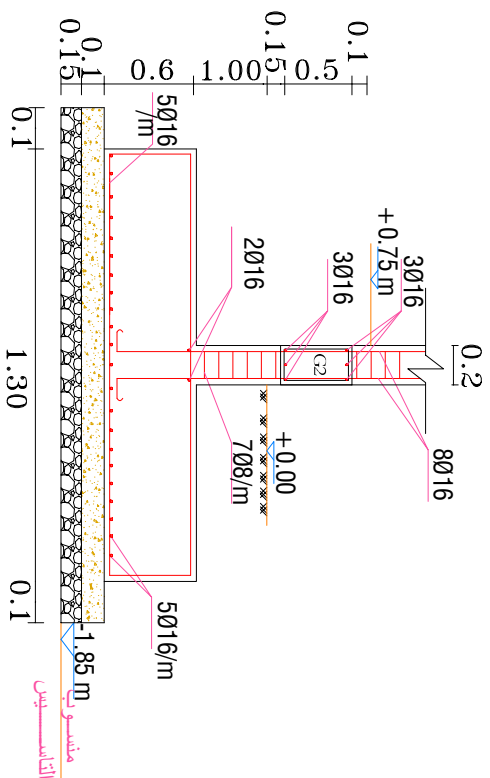


Section D-D

خرسانه عاديه

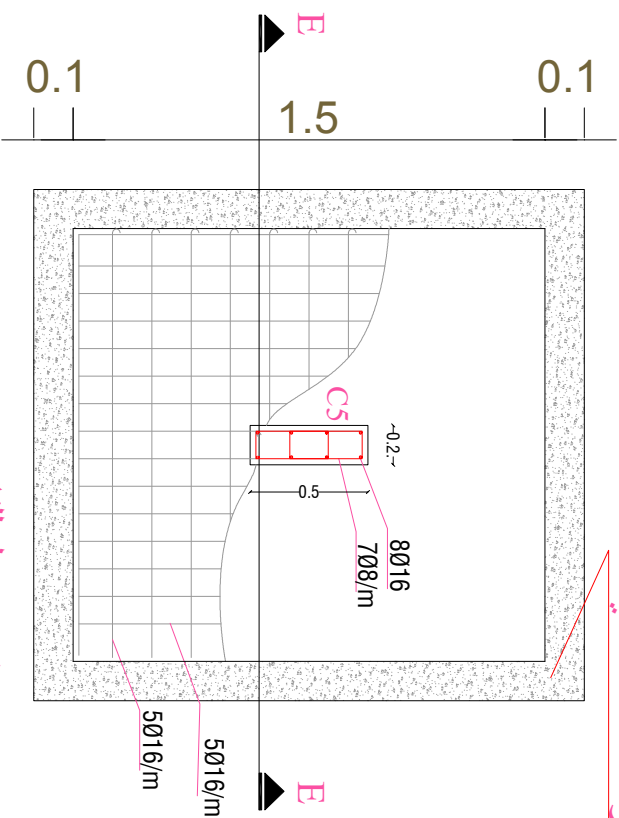


تفصيلاً للقاعدة F4



Section E-E

خرسانه عاديه



تفصيلاً للقاعدة F5

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**

**Footing**

**DRAWING Type** Structural

**DRAWING STATUS** Plan

**SHEET NUMBER** 01

**Drawn:**

**Designed:**

**Checked:**

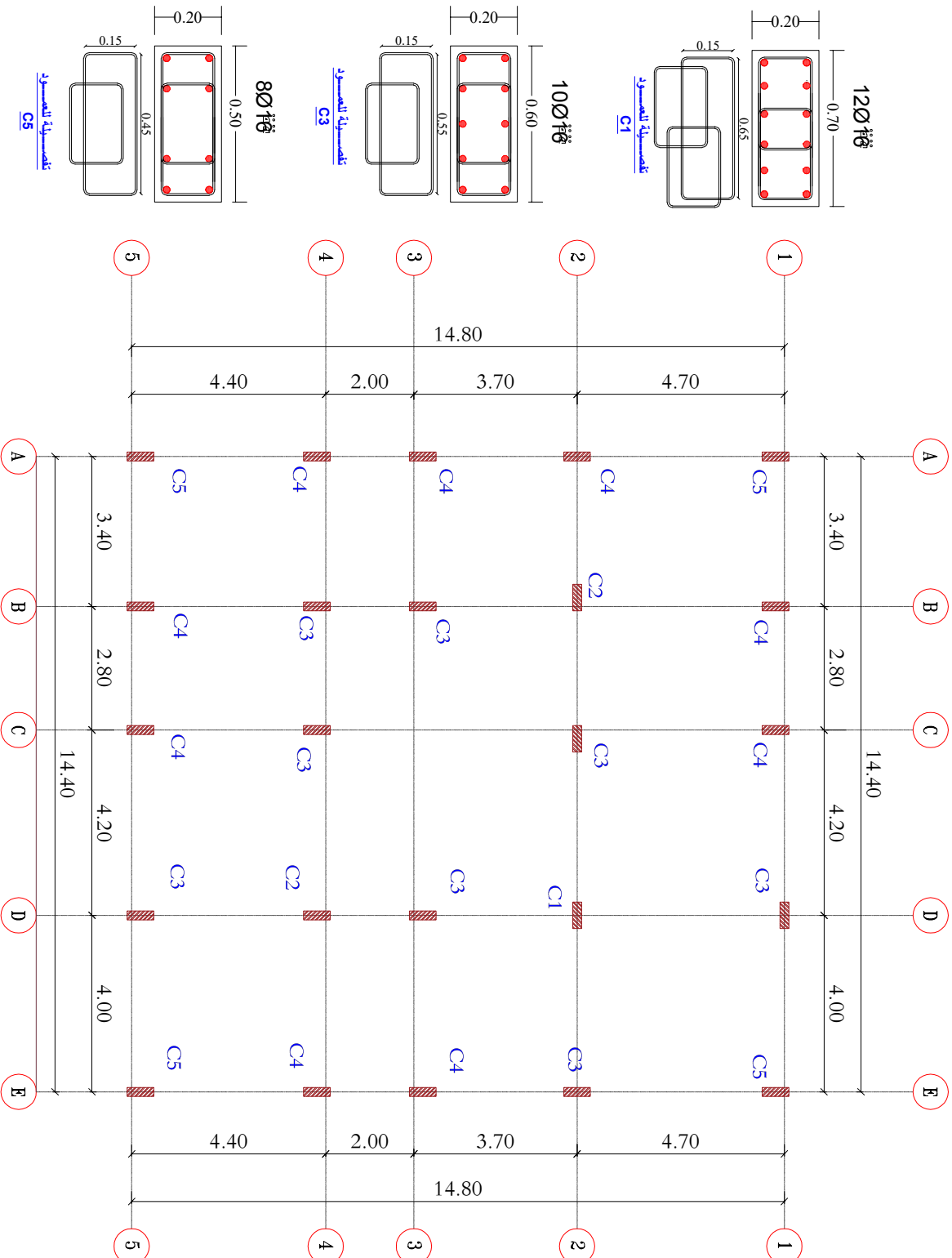
**Approved:**

**Date:** 2024

**Scale:**

**Revision:**

**Drawing Number:** Str-01-3



اصعدة الدور الارضي Columns of Ground floor

الرمز	العدد	الابعاد (m)	التسليح	الكثافات	Symbol
C1	1	0.70 x 0.20	12Ø16mm	8Ø8mm/m	C1
C2	2	0.70 x 0.20	10Ø16mm	8Ø8mm/m	C2
C3	8	0.60 x 0.20	10Ø16mm	8Ø8mm/m	C3
C4	9	0.60 x 0.20	8Ø16mm	7Ø8mm/m	C4
C5	4	0.50 x 0.20	8Ø16mm	7Ø8mm/m	C5

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



Project:

Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

Drawing Name:

Columns of Ground floor

DRAWING Type

Structural Plan and detailed section

DRAWING STATUS

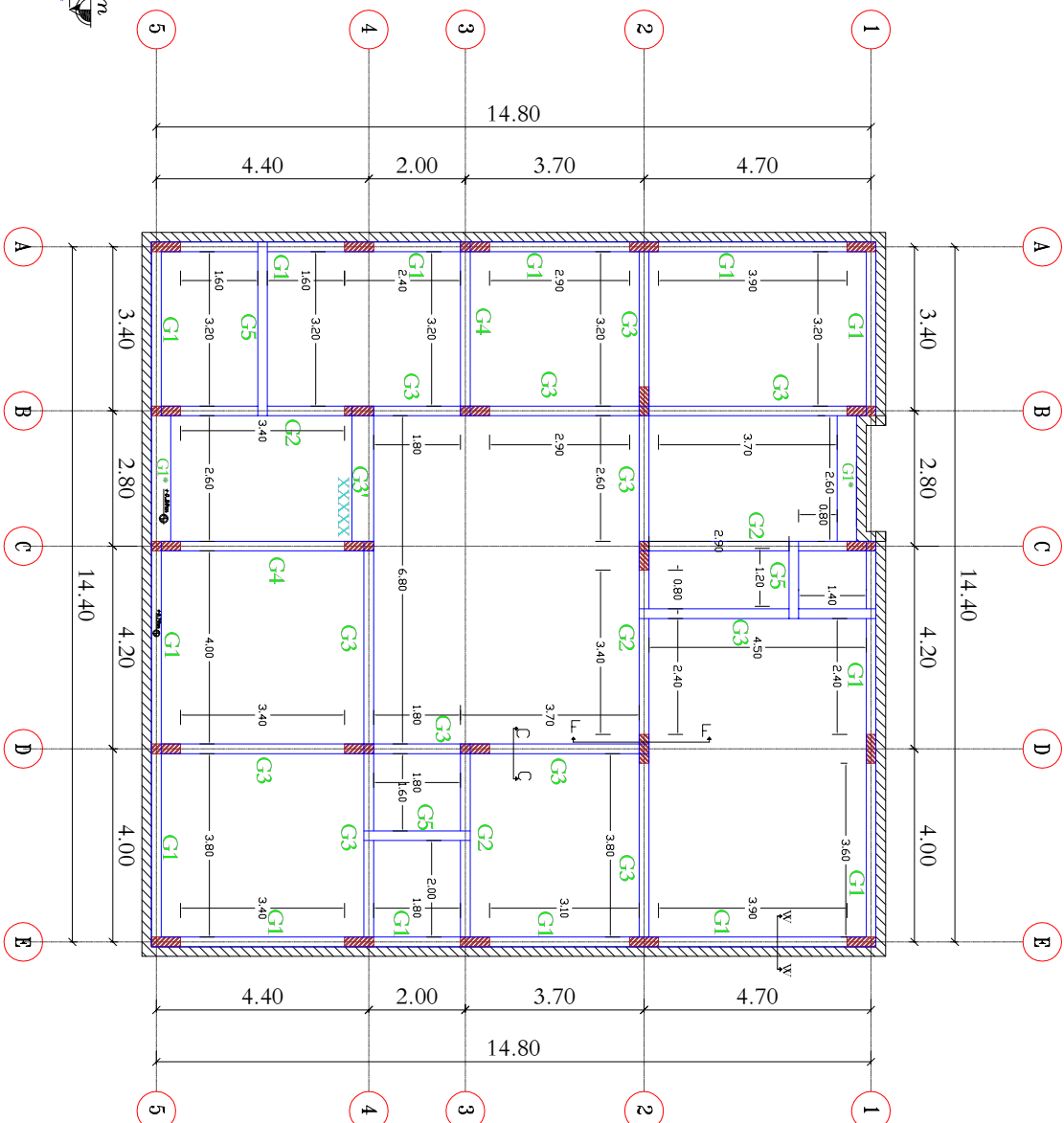
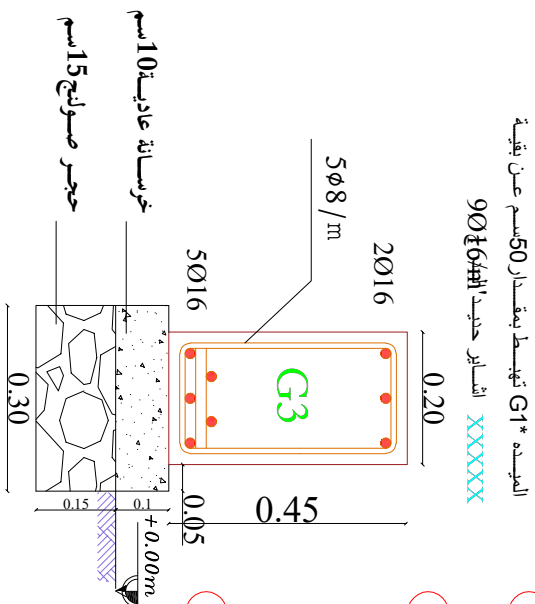
Plan and detailed section

SHEET NUMBER

02

Str:02

Table of Dimension and Reinforcement of Ground Beams					
Symbol	Dimensions		Reinforcement		Stirrups
	Width	Height	Height	Bottom Bend	
الرمز	عرض (m)	ارتفاع (m)	سقف مستقيم	مكسح علوي	الكثافات
G1	0.20	0.50	3016	2016	508/m'
G1*	0.40	0.20	6016	-----	508/m'
G2	0.20	0.50	3016	2016	508/m'
G3	0.20	0.45	3016	2016	508/m'
G3*	0.45	0.45	8016	-----	508/m'
G4	0.20	0.40	3016	2016	508/m'
G5	0.20	0.40	3016	3016	508/m'



## مسقط انشائي للمبيد

### Structural Plan of Ground Beams

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**

Ground Beams

DRAWING Type

Structural  
Plan and detailed section

DRAWING STATUS

03

SHEET NUMBER

03

Drawn: \_\_\_\_\_

Checked: \_\_\_\_\_

Designed: \_\_\_\_\_

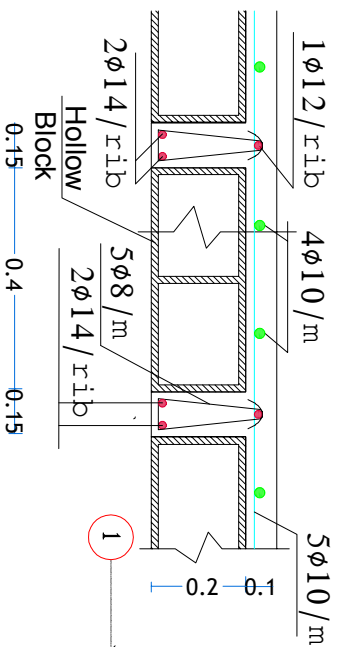
Approved: \_\_\_\_\_

Date: 2024

Scale: \_\_\_\_\_

Drawing Number: Str.03

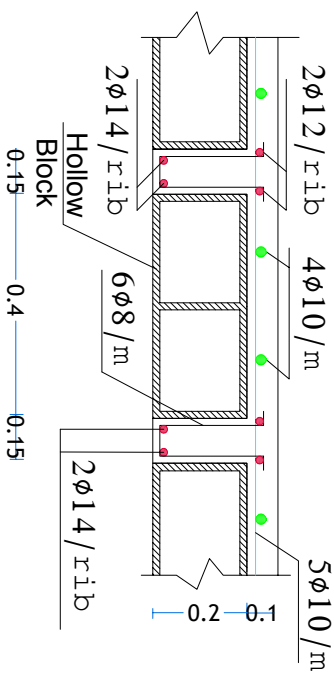
Revision: \_\_\_\_\_



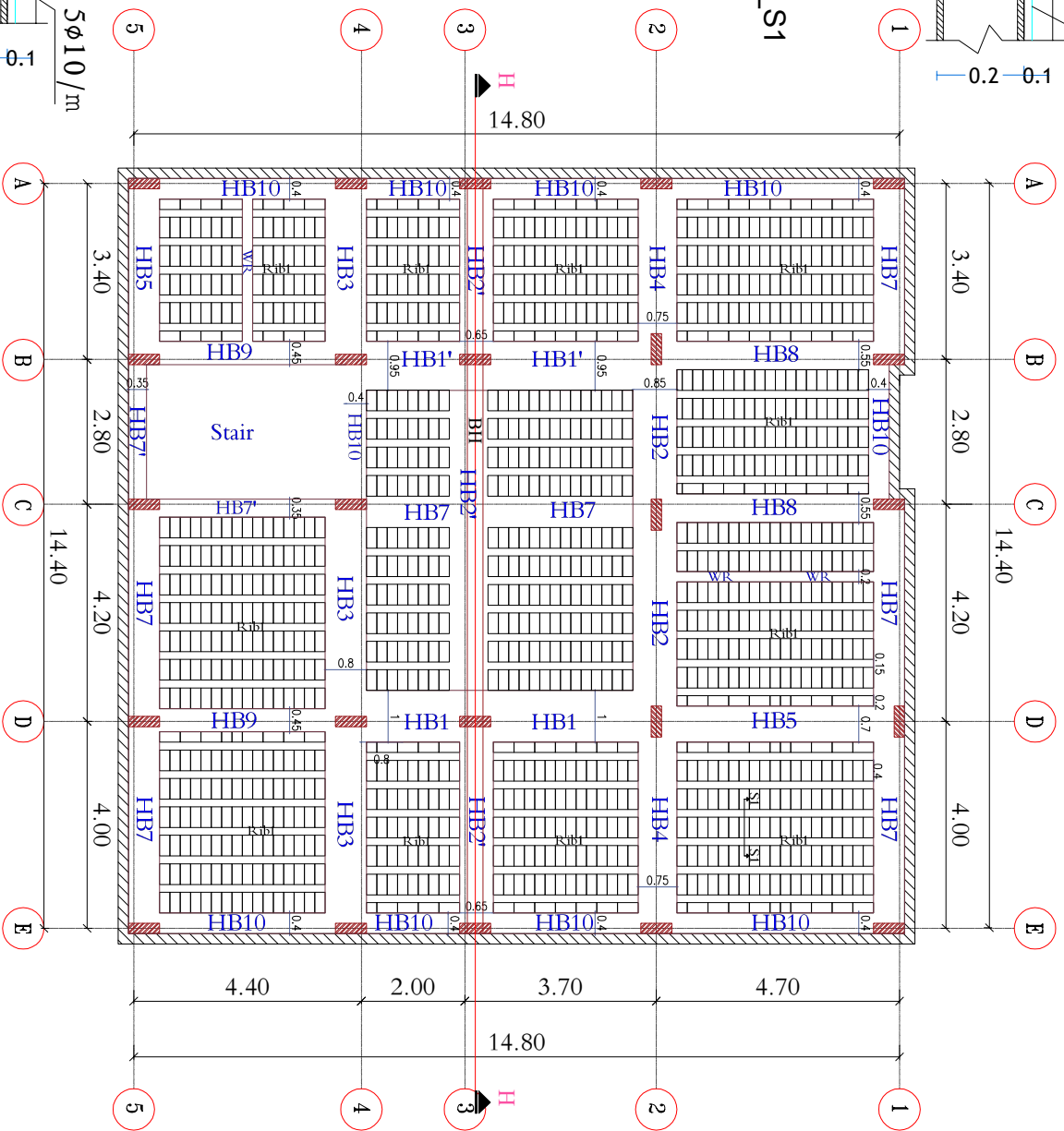
Section in Slab at Rib1 Section S1\_S1

**Table of Slab and Beams**  
جدول الجسور والعتبات

Symbol الرمز	Dimensions الأبعاد		Reinforcement تعزيز التسليح			Stirrups العتبات
	Width عرض (m)	Height ارتفاع (m)	Bottom أسفل	Band مكتف	Top أعلى	
HB1	1.00	0.30	8Ø16	4Ø16	6Ø16	5Ø10/m'
HB1'	0.95	0.30	8Ø16	4Ø16	6Ø16	5Ø8/m'
HB2	0.85	0.30	6Ø16	4Ø16	6Ø16	5Ø8/m'
HB3	0.80	0.30	6Ø16	4Ø16	6Ø16	5Ø8/m'
HB4	0.75	0.30	6Ø16	3Ø16	6Ø16	5Ø8/m'
HB5	0.70	0.30	6Ø16	3Ø16	6Ø16	5Ø8/m'
HB7	0.60	0.30	5Ø16	2Ø16	4Ø16	5Ø8/m'
HB7'	0.55	0.30	4Ø16	2Ø16	4Ø16	5Ø8/m'
HB8	0.55	0.30	4Ø16	4Ø16	4Ø16	5Ø8/m'
HB9	0.45	0.30	4Ø16	4Ø16	4Ø16	5Ø8/m'
HB10	0.40	0.30	4Ø16	2Ø16	4Ø16	5Ø8/m'
WR	0.20	0.30	2Ø16	2Ø16	2Ø16	5Ø8/m'
XLR	0.20	0.30	3Ø14	.....	.....	5Ø8/m'
R.kb1	0.15	0.20	2Ø14	2Ø14	1Ø12	5Ø8/m'
R.kb2	0.15	0.20	2Ø14	.....	.....	6Ø8/m'
Top Slab	0.10	0.10	5Ø10	.....	.....	4Ø10
HB2'	0.65	0.30	6Ø16	4Ø16	6Ø16	5Ø8/m'



Section in Slab at Rib2 Section S2\_S2



KEY PLAN

**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:** Slab of ground floor

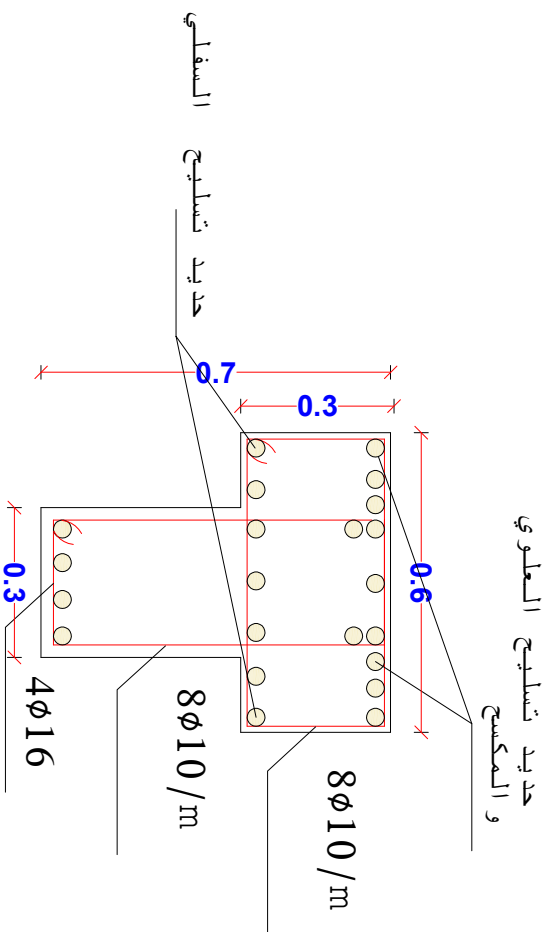
<b>DRAWING Type</b>	Structural
<b>DRAWING STATUS</b>	Plan and detailed section
<b>SHEET NUMBER</b>	04
Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:
Str.04	

**CLIENT**  
REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



جدول ابعاد وتسليح الجسر المساقط						
الرمز	الأبعاد		حديد التسليح		إجمالي	808/m'
	عرض (m)	الارتفاع (m)	سفلي	علوي		
BH	0.3	0.7	مساقط	علوي	3016	3016
			مكعب		2016	2016
					4016	4016

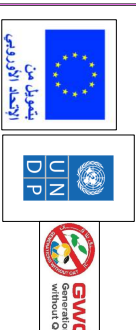


BH

KEY PLAN

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**

Stair

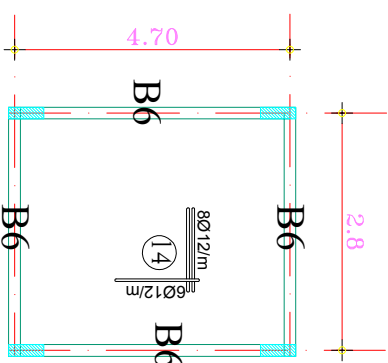
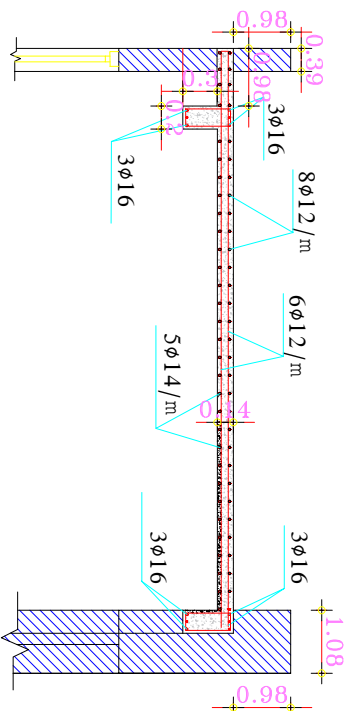
**DRAWING Type** Structural  
**DRAWING STATUS** Plan and detailed section  
**SHEET NUMBER** 05

**Drawn:**  
**Designed:**  
**Checked:**  
**Approved:**  
**Date:** 2024  
**Scale:**  
**Drawing Number:** Str.05

0.30  
 4ø16  
 6ø16  
 0

## جدول ابعاد وتسليح الجسور لبيت الدرج

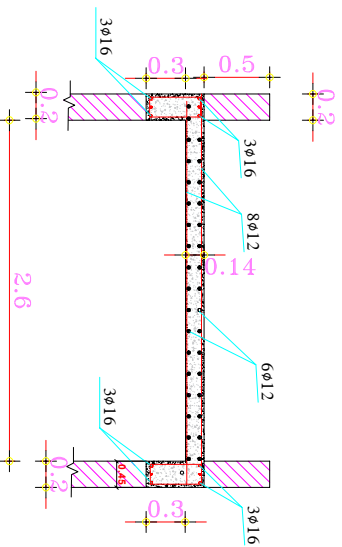
الرمز	الأبعاد		حديد التسليح		إجمالي
	عرض (m)	ارتفاع (m)	سفلي مستقيم	علوي	
B6	0.20	0.45	3Ø16	3Ø16	5Ø8/m'



4.7

14 cm

مسقط تسليح بلاطه  
سقف بيت السلم



KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



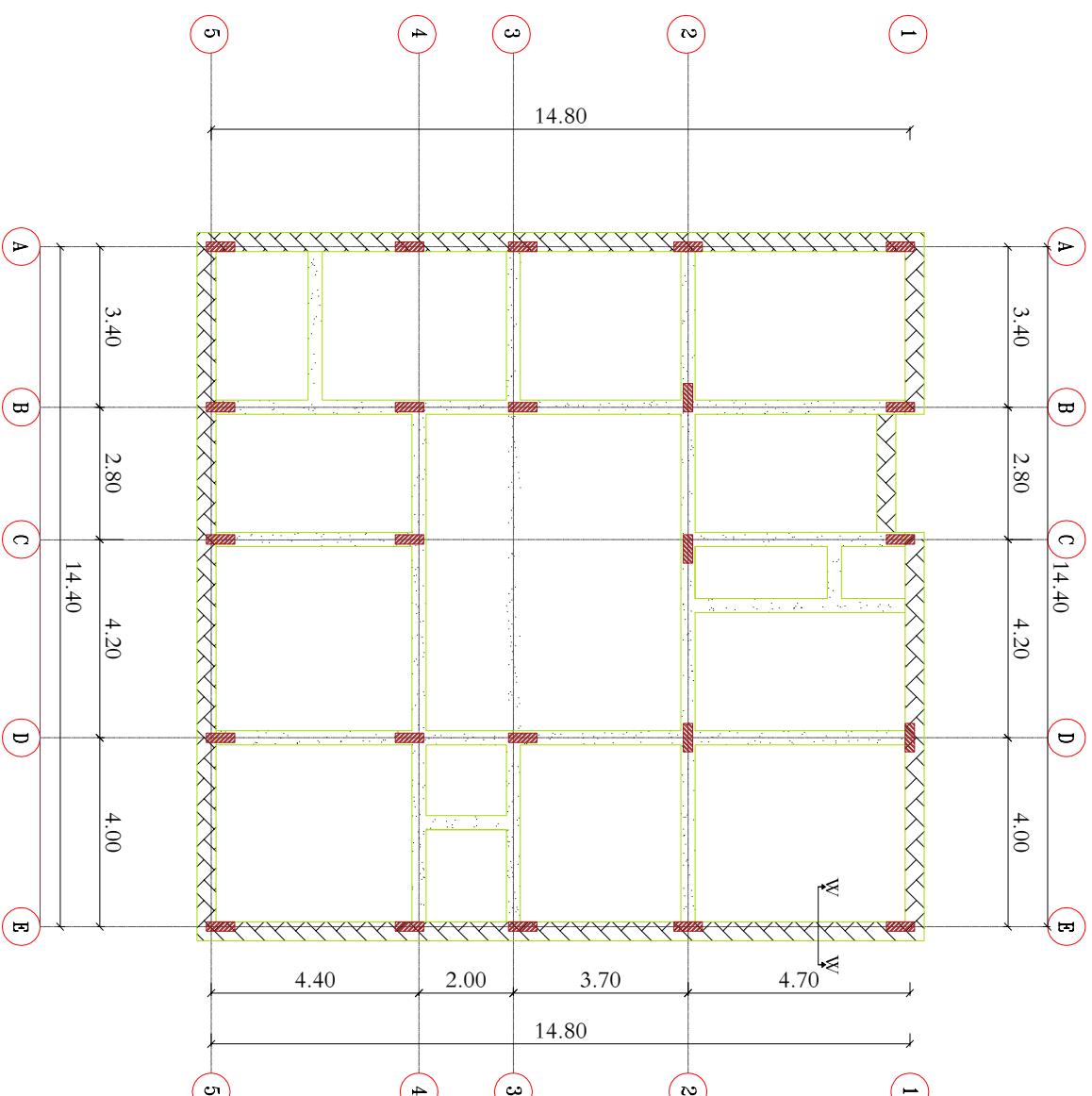
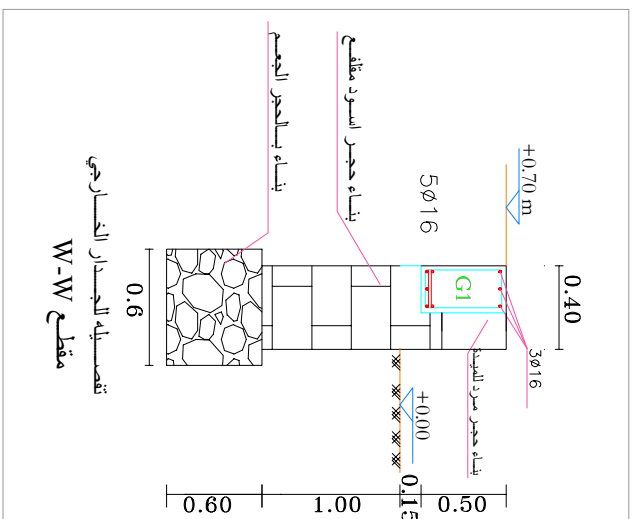
**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:** Structural Details4  
Details of Bench of LAB

**DRAWING Type** Structural  
**DRAWING STATUS** Section Plan  
**SHEET NUMBER** 06

Drawn: \_\_\_\_\_  
Designed: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Date: 2024  
Scale: \_\_\_\_\_  
Drawing Number: Str.06  
Revision: \_\_\_\_\_





Plan showing plain concrete with stone layer under interior ground

beams and showing the plinth wall under the exterior ground beams

مسقط يوضح الخرسانة العادية و الصوانج تحت المييد

الداخلية و جدران حجر الكرسى تحت المييد الخارجية

KEY PLAN

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name :** Structural Details 1

Section and section plan in external walls under ground beams

**DRAWING Type**

Structural

**DRAWING STATUS**

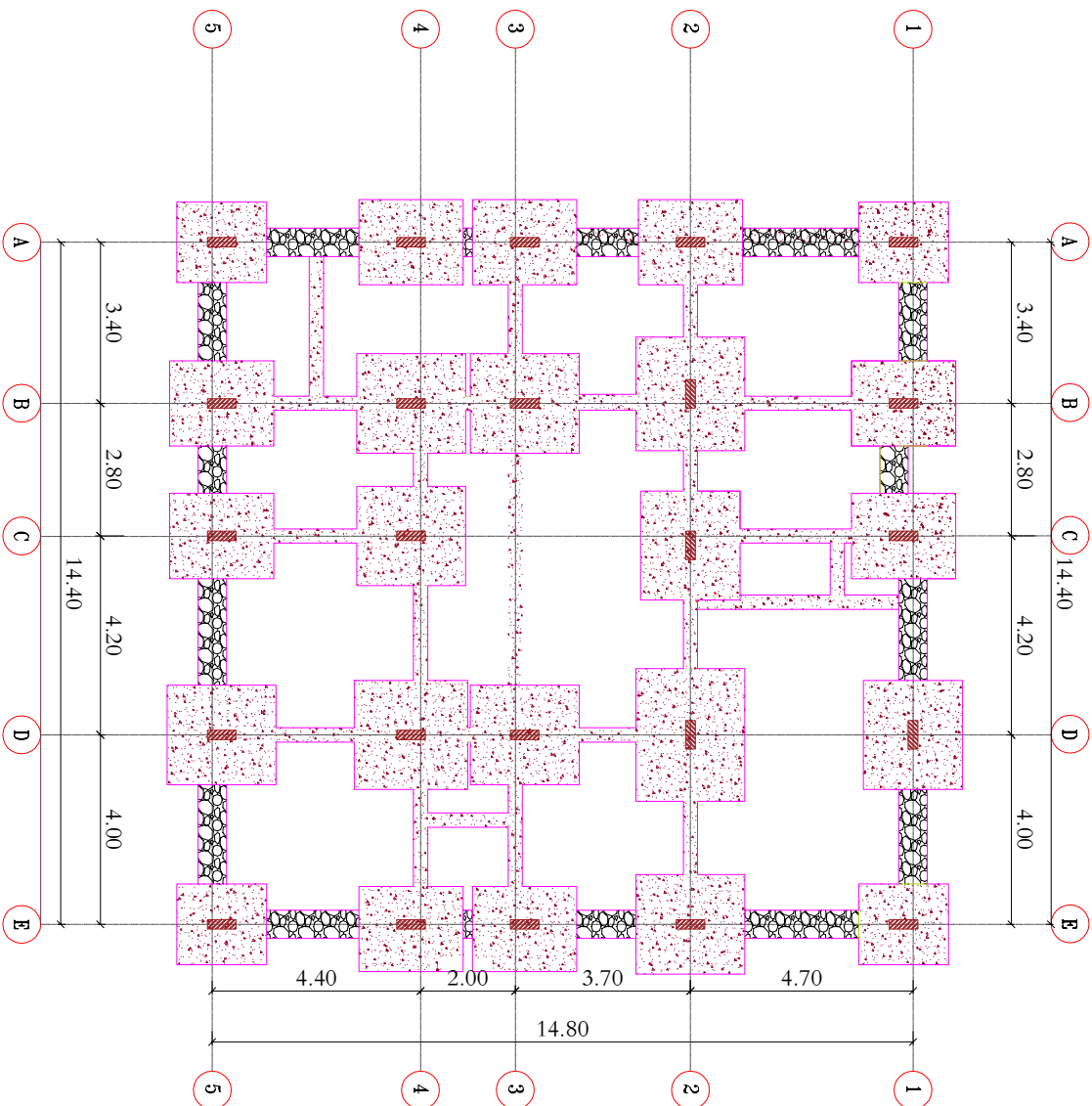
Plan and detailed section

**SHEET NUMBER**

07

Drawn: \_\_\_\_\_  
Designed: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Date: 2024  
Scale: \_\_\_\_\_  
Drawing Number: Str:07  
Revision: \_\_\_\_\_

KEY PLAN



Plan showing plain concrete with  
stones layer under foundations  
And the boulder stone masonry  
under the plinth wall

مسقط يوضح الخرسانة العادية

و الصولنج تحت القواعد

والميد الداخلية

و الجعم تحت جدار الكرسي

**CLIENT**  
REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:** Structural Details2

Section Plan in PC and  
Boulder stone masonry

**DRAWING Type** Structural

**DRAWING STATUS** Plan and detailed section

**SHEET NUMBER** 08

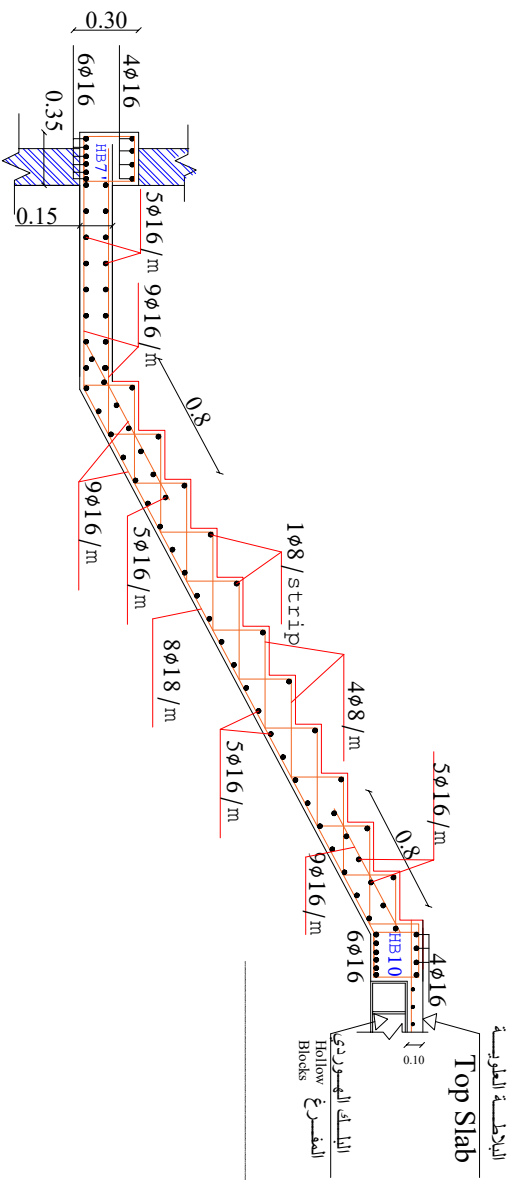
Drawn: \_\_\_\_\_ Checked: \_\_\_\_\_

Designed: \_\_\_\_\_ Approved: \_\_\_\_\_

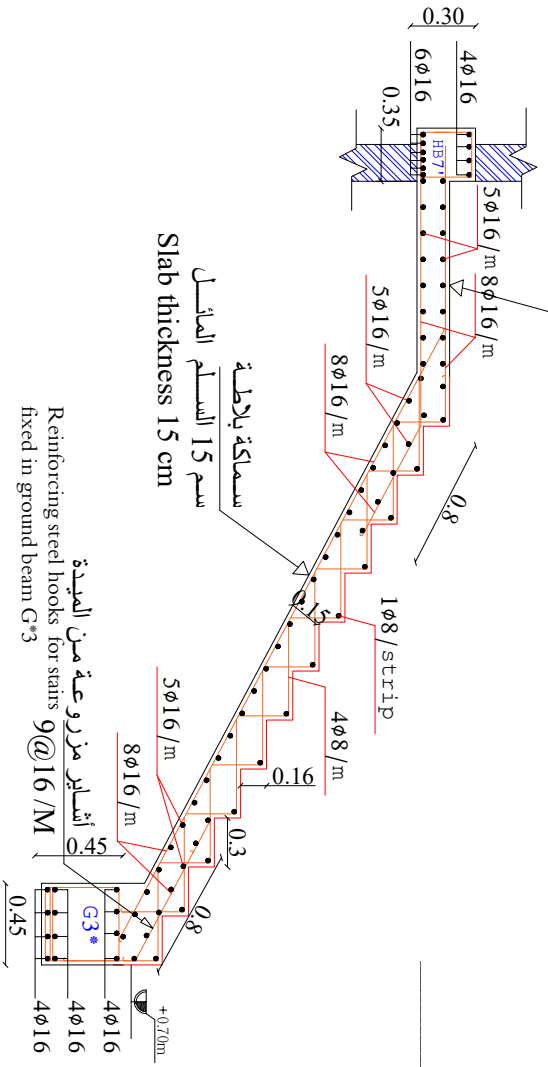
Date: 2024 Scale: \_\_\_\_\_

Drawing Number: \_\_\_\_\_ Revision: \_\_\_\_\_

Str:08

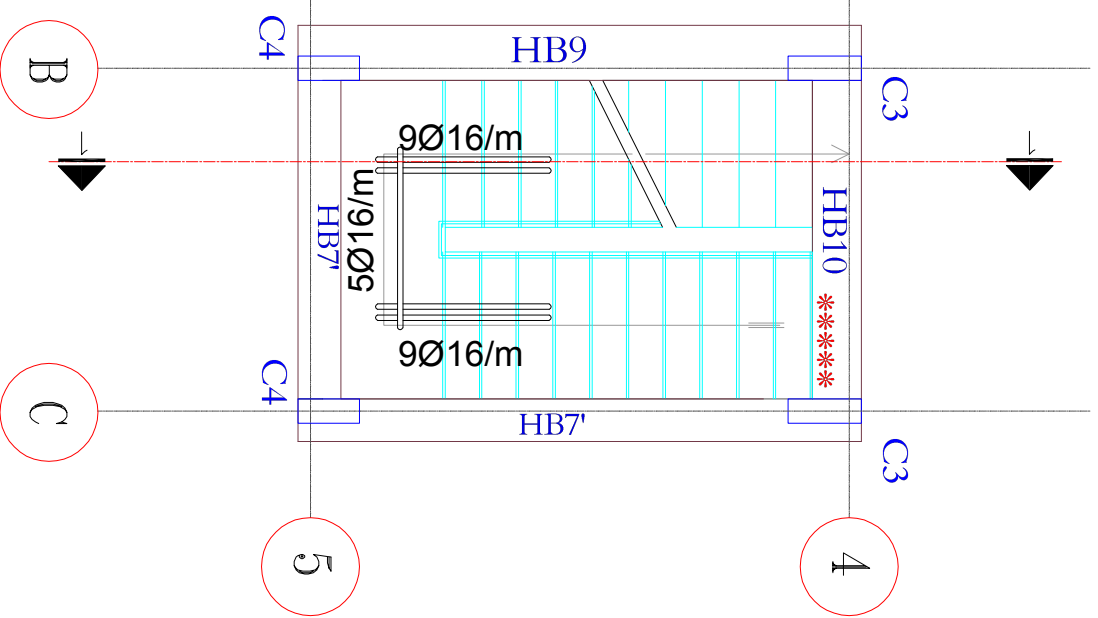


سماكة بلاطة السطح  
بمساحة السلم  
15 سم



سماكة بلاطة السلم المائل  
15 سم

إششير مزروعة من المبدية  
Reinforcing steel hooks for stairs  
fixed in ground beam G\*3



Plan of Stair

\*\*\*\*\*

اششير حديد الدرج

Reinforcing steel hooks for stairs

مقطع 1-1 ايوضح حديد السلم  
Section 1-1 in Stair

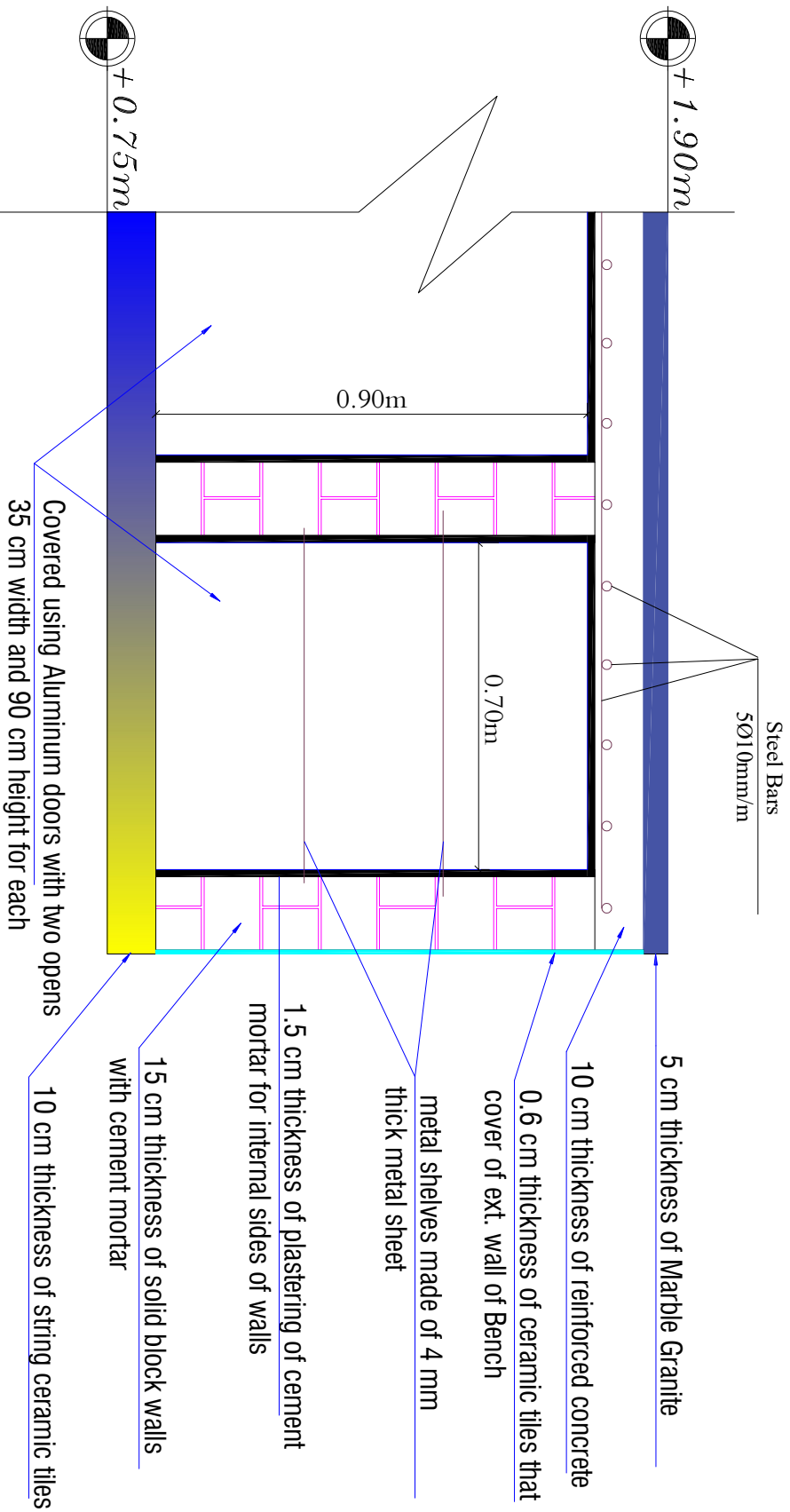
KEY PLAN
----------

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project:**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District, Lahj Governorate

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**

<b>Drawing Name:</b> Stair	<b>Owner:</b> Structural
<b>Drawing Type:</b> Plan and detailed section	<b>Design:</b> 2024
<b>Sheet Number:</b> 09	<b>Scale:</b> 1:1
<b>Drawn:</b>	<b>Checked:</b>
<b>Approved:</b>	<b>Revision:</b>
<b>Drawing Number:</b> Str.09	



## Details of Bench of LAB and receive sample room

KEY PLAN

### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



### Project :

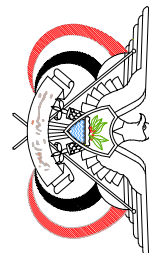
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

### Drawing Name : Structural Details3

Section Plan in PC under footing and under ground beams

DRAWING TYPE	STRUCTURAL
DRAWING STATUS	Section Plan
SHEET NUMBER	10

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:



Project : Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system




in Tuban District / Lahj Governorate






مشروع بناء وتجهيز وتأثيث مبنى الإرشاد الزراعي والبيطري  
وتوريد نظام طاقة شمسية مديرية تبن محافظة لحج -

## Electrical Plans

# المخططات الكهربائية

KEY PLAN

-  Ceiling-mounted Fan
-  Exhaust Fan
-  LED Tube Light Unit  
1x20W length 80 cm
-  Ceiling-mounted LED  
Circular Light 20W
-  Wall Mounted LED  
Light 20W

Symbol	Representation
	Ceiling-mounted Fan with Speed Regulator
	Exhaust Fan
	LED Tube Light Unit: 1x20W length 80 cm
	Ceiling-mounted LED Circular Light 20W
	Wall Mounted LED Light 20W



**Project:**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**  
GROUND FLOOR LIGHTS

**DRAWING Type**  
ELECTRICAL

**DRAWING STATUS**  
PLAN

**SHEET NUMBER**  
01

**CLIENT**  
REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

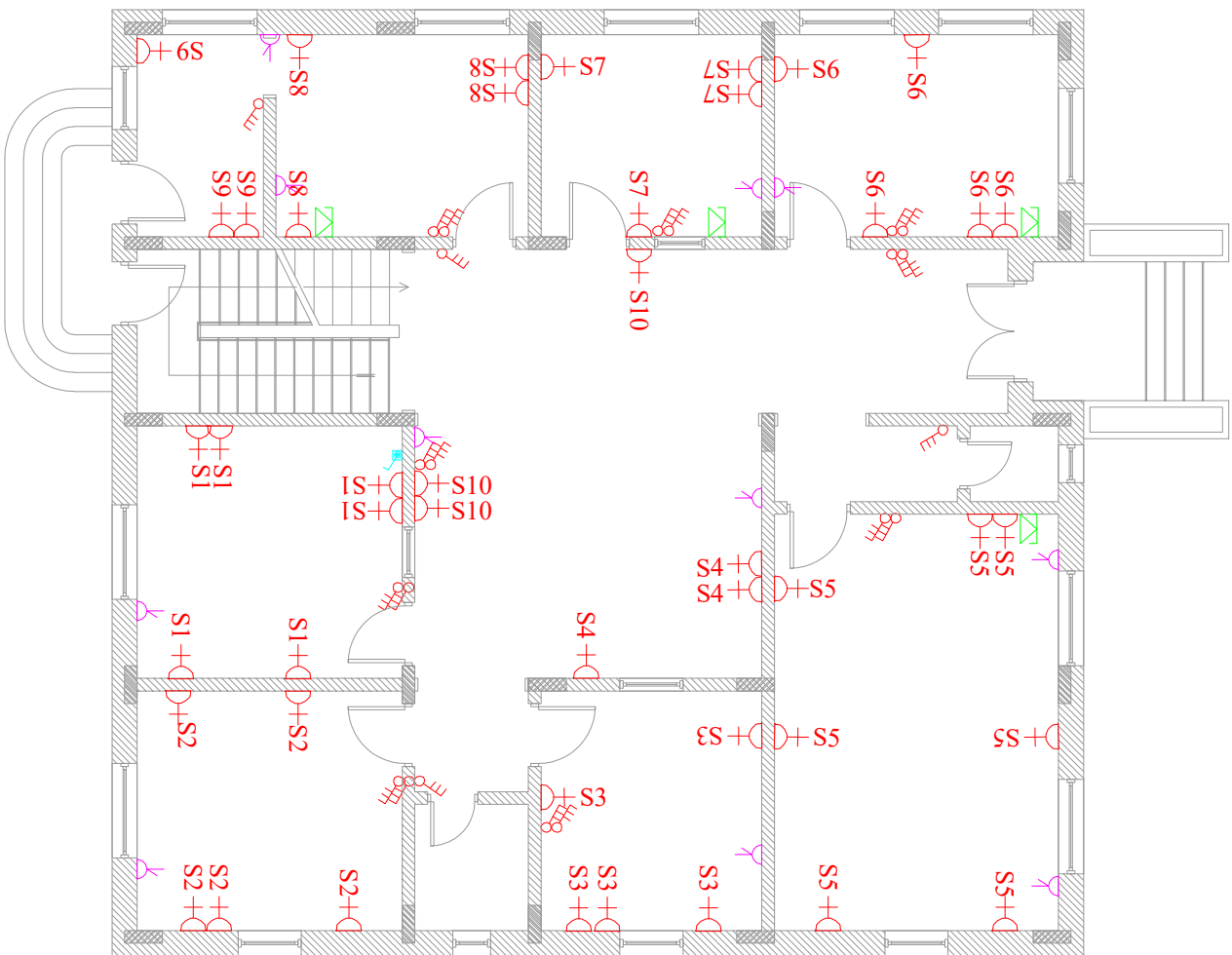
**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Drawn:**  
Designed:  
Checked:  
Approved:  
Scale:  
Drawing Number:  
Revision:

DATE: 2024

**ELEC-01**



## GROUND FLOOR SWITCHES

Symbol	Representation
	One Way 1, 2 & 3 Gang Lighting Switches
	Two-Way One, Two Gang Lighting Switches
	Water Heater Switch 20A
	AC Split Unit Switch 20A
	Socket Outlet 13A
	Socket Outlet 5A
	Socket Outlet -3phase
	TV Socket Outlet
	Telephone Socket Outlet

KEY PLAN

- One Way 3 & 2, 1Gang Lighting Switches
- Two-Way One, Two Gang Lighting Switches
- Water Heater Switch 20A
- AC Split Unit Switch 20A
- Socket Outlet 13A
- Socket Outlet 5A
- Socket Outlet -3phase
- TV Socket Outlet
- Telephone Socket Outlet

**Notes:**

All sockets should be installed at 70cm above FFL  
 All switches should be installed at 120cm above FFL  
 All telephone sockets should be connected to the terminal box in the ground floor

**CLIENT**

REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name :**

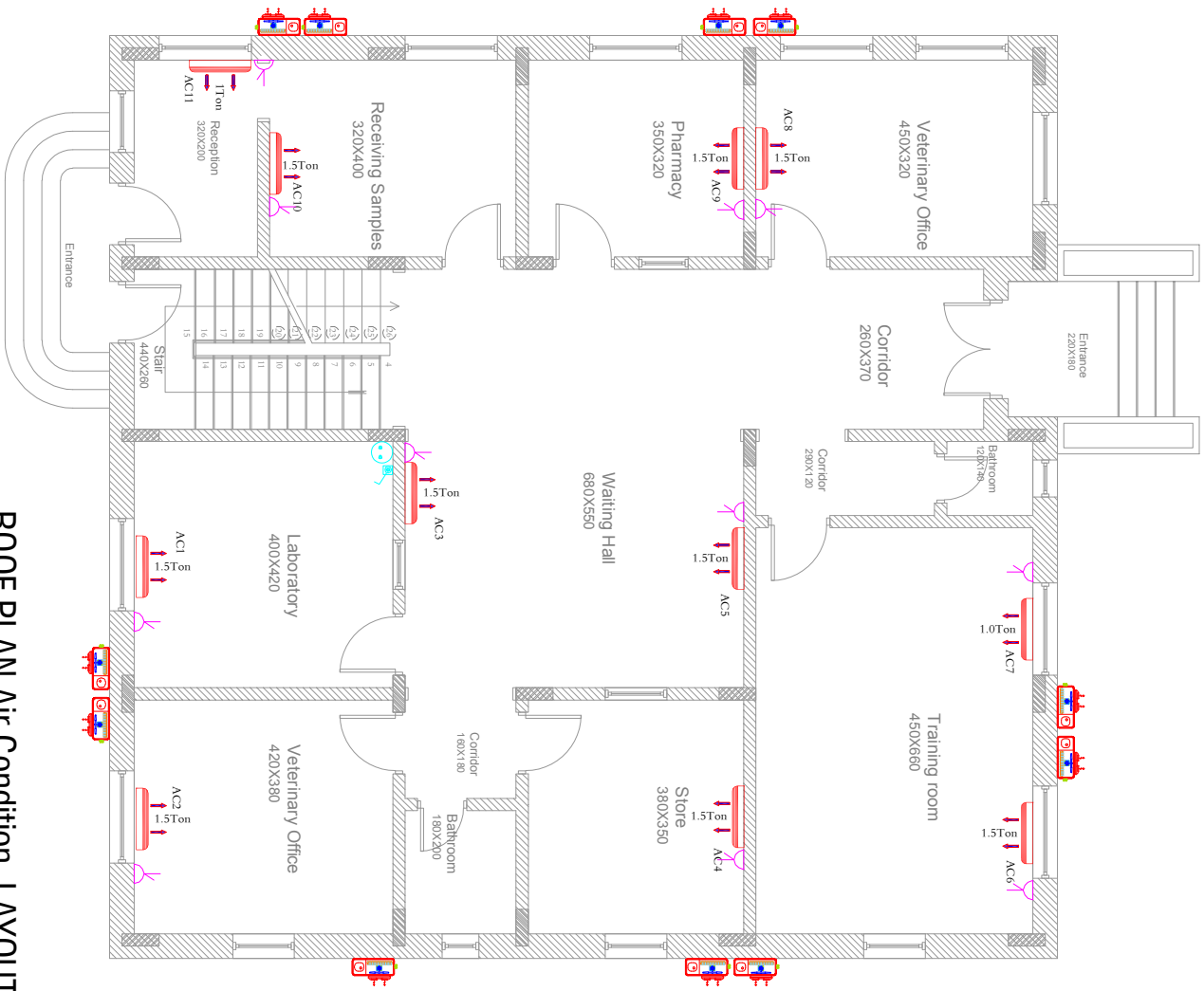
**GROUND FLOOR SWITCHES**

**DRAWING Type** ELECTRICAL

**DRAWING STATUS** PLAN

**SHEET NUMBER** 02

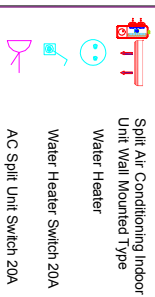
Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: ELEC-02	Revision:



## ROOF PLAN Air Condition LAYOUT

Symbol	Representation
	Split Air Conditioning Indoor Unit Wall Mounted Type
	Water Heater
	Water Heater Switch 20A
	AC Split Unit Switch 20A

### KEY PLAN



### Notes:

- All sockets should be installed at 70cm above FFL
- All switches should be installed at 120cm above FFL
- All telephone sockets should be connected to the terminal box in the ground floor

### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name :** SWITCHES, AC Units & Water Heater of GROUND FLOOR

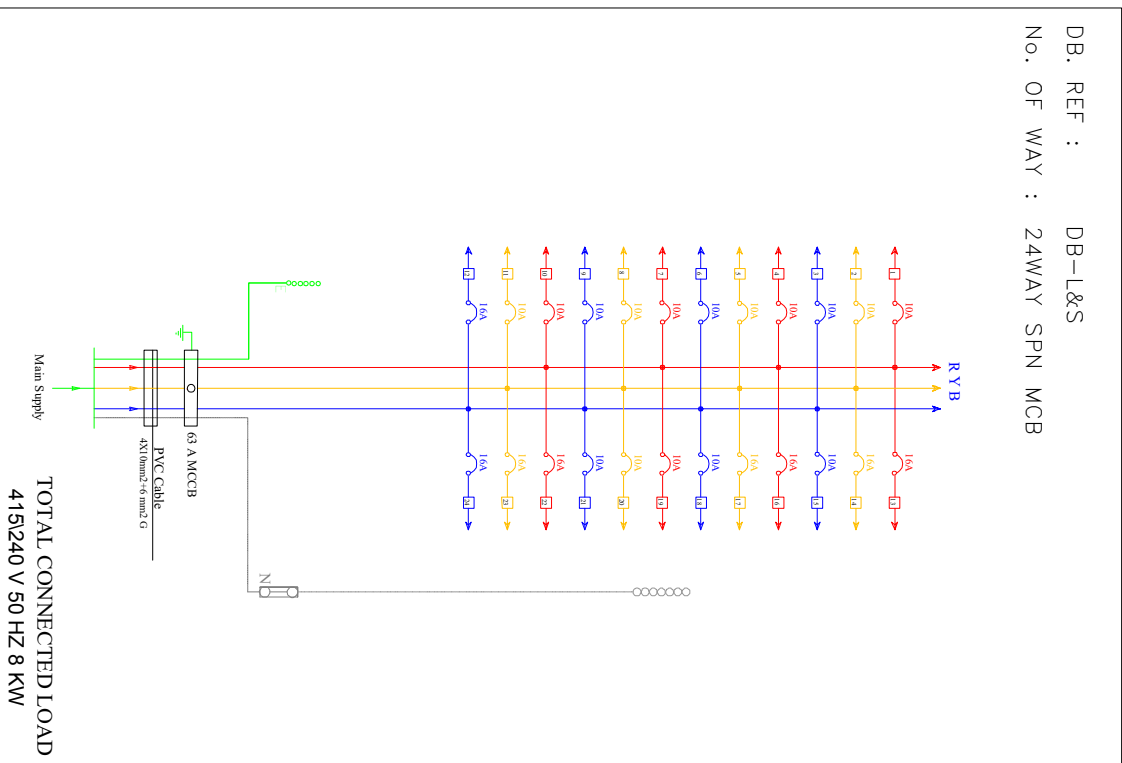
**DRAWING Type**  
DRAWING STATUS  
ELECTRICAL PLAN

**SHEET NUMBER**  
03

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: ELEC-03	Revision:



DB. REF : DB-L&S  
 No. OF WAY : 24WAY SPN MCB



TOTAL CONNECTED LOAD  
 415/240 V 50 HZ 8 KW

DB. REF :	DB-L&S	FED FROM	: MDB					
			MAIN BREAKER	: 63A, 3P MCCB				
No. OF WAY:	24 WAY SPN MCB	INCOMER CABLE:	4C/10mm <sup>2</sup> + E 6 mm <sup>2</sup> /PVC+ECC					
WIRE	ECC	MCB	POINT OF REFERENCE	No. of PTS	LOAD (KW)			
SIZE	SIZE	RATE			R	Y	B	
CKT. No.	M 2	M 2	AMP.					
1	2.5	2.5	10	L1+F1+EX1	4+1+1	0.175		
2	2.5	2.5	10	L2+F2	6+2		0.175	
3	2.5	2.5	10	L3+F3	4+1			0.135
4	2.5	2.5	10	L4+F4	4+2	0.19		
5	2.5	2.5	10	L5+F5	6+2		0.23	
6	2.5	2.5	10	L6+F6	4+1			0.135
7	2.5	2.5	10	L7+F7+EX7	4+1+1	0.175		
8	2.5	2.5	10	L8+F8	4+1		0.135	
9	2.5	2.5	10	L9+F9	2+1			0.095
10	2.5	2.5	10	L10+EX10	10+2	0.20		
11	2.5	2.5	10	L11	6		0.16	
12	4	4	16	S1	6			0.9
13	4	4	16	S2	5	0.75		
14	4	4	16	S3	5		0.75	
15	4	4	16	S4	3			0.45
16	4	4	16	S5	7	1.05		
17	4	4	16	S6	5		0.75	
18	4	4	16	S7	4			0.6
19	4	4	16	S8	4	0.6		
20	4	4	16	S9	3		0.45	
21	4	4	16	S10	3			0.45
22				SPARE				
23				SPARE				
24				SPARE				
TOTAL LOAD IN EACH PHASE IN KW						2.56	2.65	2.76
TOTAL CONNECTED LOAD IN KW						8.00		
TOTAL CONNECTED LOAD IN KVA						9.6		

KEY PLAN

Notes:  
 All sockets should be installed at 70cm above FFL  
 All switches should be installed at 120cm above FFL  
 All telephone sockets should be connected to the terminal box in the ground floor

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**  
 WIRES & MAIN LOADS  
 OF GROUND FLOOR

**DRAWING TYPE**  
 ELECTRICAL  
**DRAWING STATUS**  
 Diagram  
**SHEET NUMBER**  
 04

Drawn: \_\_\_\_\_  
 Designed: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Approved: \_\_\_\_\_  
 Date: 2024  
 Scale: \_\_\_\_\_  
 Drawing Number: \_\_\_\_\_  
 Revision: \_\_\_\_\_

**ELEC-04**

DB. REF : DB-AC

No. OF WAY : 18 WAY SPN MCB

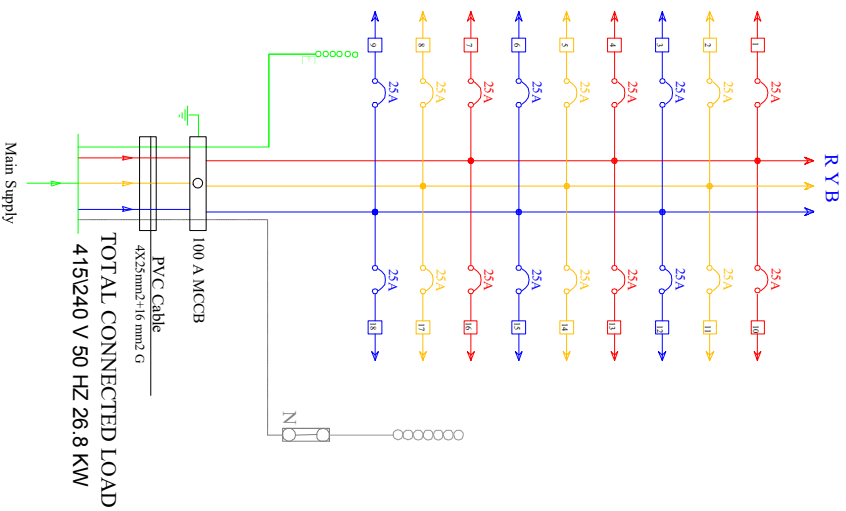
DB. REF : DB-AC

No. OF WAY:

18 WAY SPN MCB

FED FROM : MDB

MAIN BREAKER : 100A. 4P MCCB

INCOMER CABLE : 4C/25mm<sup>2</sup>+ E 16 mm<sup>2</sup>/PVC+ECC

CKT. No.	WIRE SIZE MM2	ECC SIZE MM2	MCB RATE AMP.	POINT OF REFERENCE	No. of PTS	WATT OUTLET	LOAD (KW)			
							R	Y	B	
1	6	6	25	AC1	1	2400	2.4			
2	6	6	25	AC2	1	2400		2.4		
3	6	6	25	AC3	1	2400			2.4	
4	6	6	25	AC4	1	2400	2.4			
5	6	6	25	AC5	1	2400		2.4		
6	6	6	25	AC6	1	2400			2.4	
7	6	6	25	AC7	1	1600	1.6			
8	6	6	25	AC8	1	2400		2.4		
9	6	6	25	AC9	1	2400			2.4	
10	6	6	25	AC10	1	2400	2.4			
11	6	6	25	AC11	1	1600		1.6		
12	6	6	25	WH1	1	2000			2	
TOTAL LOAD IN EACH PHASE IN KW							8.8	8.8	9.2	
TOTAL CONNECTED LOAD IN KW							26.8			
TOTAL CONNECTED LOAD IN KVA							30			

## GROUND FLOOR WIRES of AC UNITS

**Drawing Name :**  
WIRES & AC LOADS  
of GROUND FLOOR

**DRAWING Type**  
ELECTRICAL

**DRAWING STATUS**  
Diagram

**SHEET NUMBER**  
05

**Drawn:**  
Designed:  
Checked:  
Approved:  
Scale:  
Drawing Number:  
Revision:

ELEC-05

**Notes:**  
All sockets should be installed at 70cm above FFL  
All switches should be installed at 120cm above FFL  
All telephone sockets should be connected to the terminal box in the ground floor

### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project :**  
Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name :**  
WIRES & AC LOADS  
of GROUND FLOOR

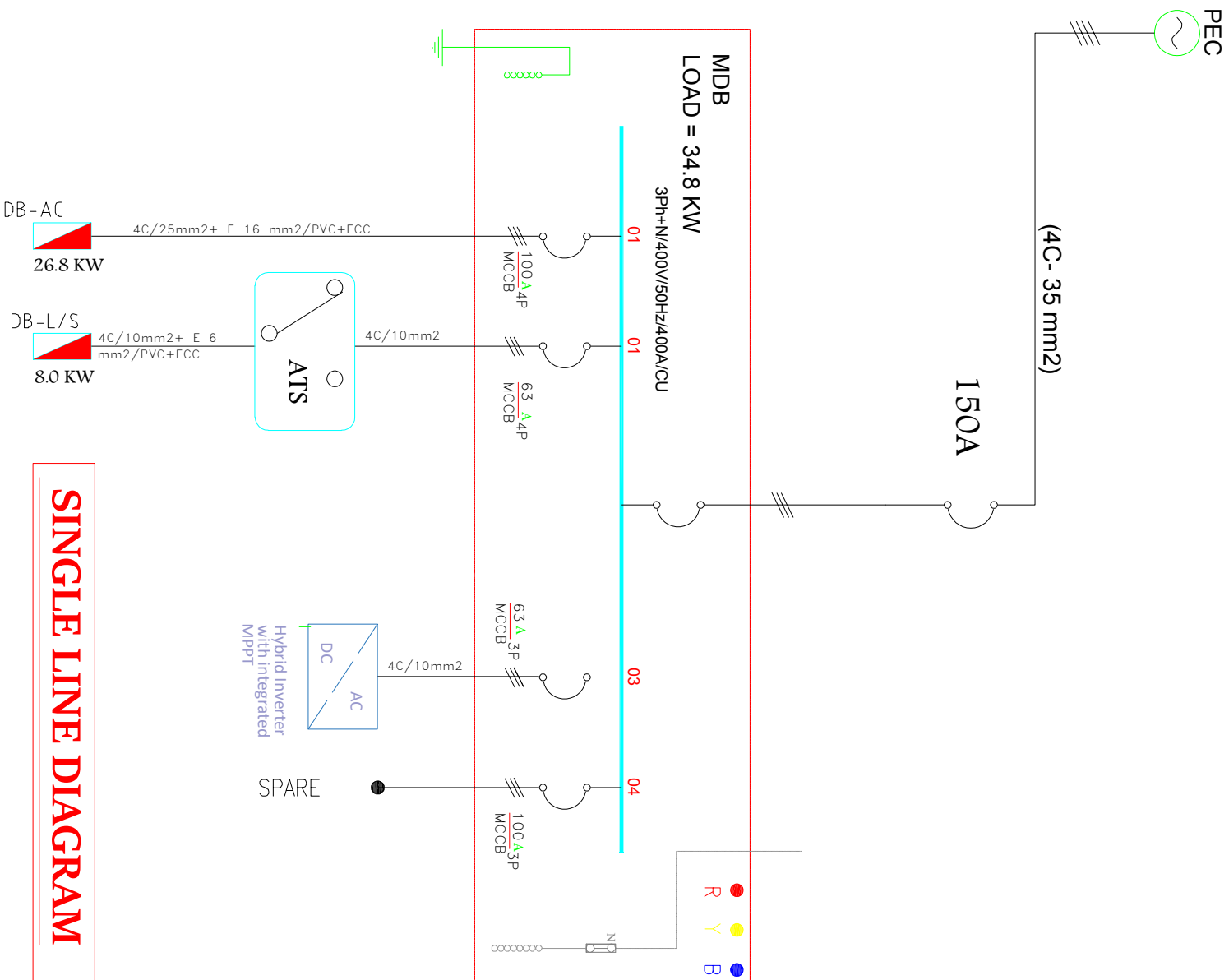
**DRAWING Type**  
ELECTRICAL

**DRAWING STATUS**  
Diagram

**SHEET NUMBER**  
05

**Drawn:**  
Designed:  
Checked:  
Approved:  
Scale:  
Drawing Number:  
Revision:

ELEC-05



# SINGLE LINE DIAGRAM

### KEY PLAN

#### Notes:

- All sockets should be installed at 70cm above FFL
- All switches should be installed at 120cm above FFL
- All telephone sockets should be connected to the terminal box in the ground floor

#### CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

#### Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

#### Drawing Name:

Distribution Panels & Diagram of GROUND FLOOR

#### DRAWING Type

ELECTRICAL

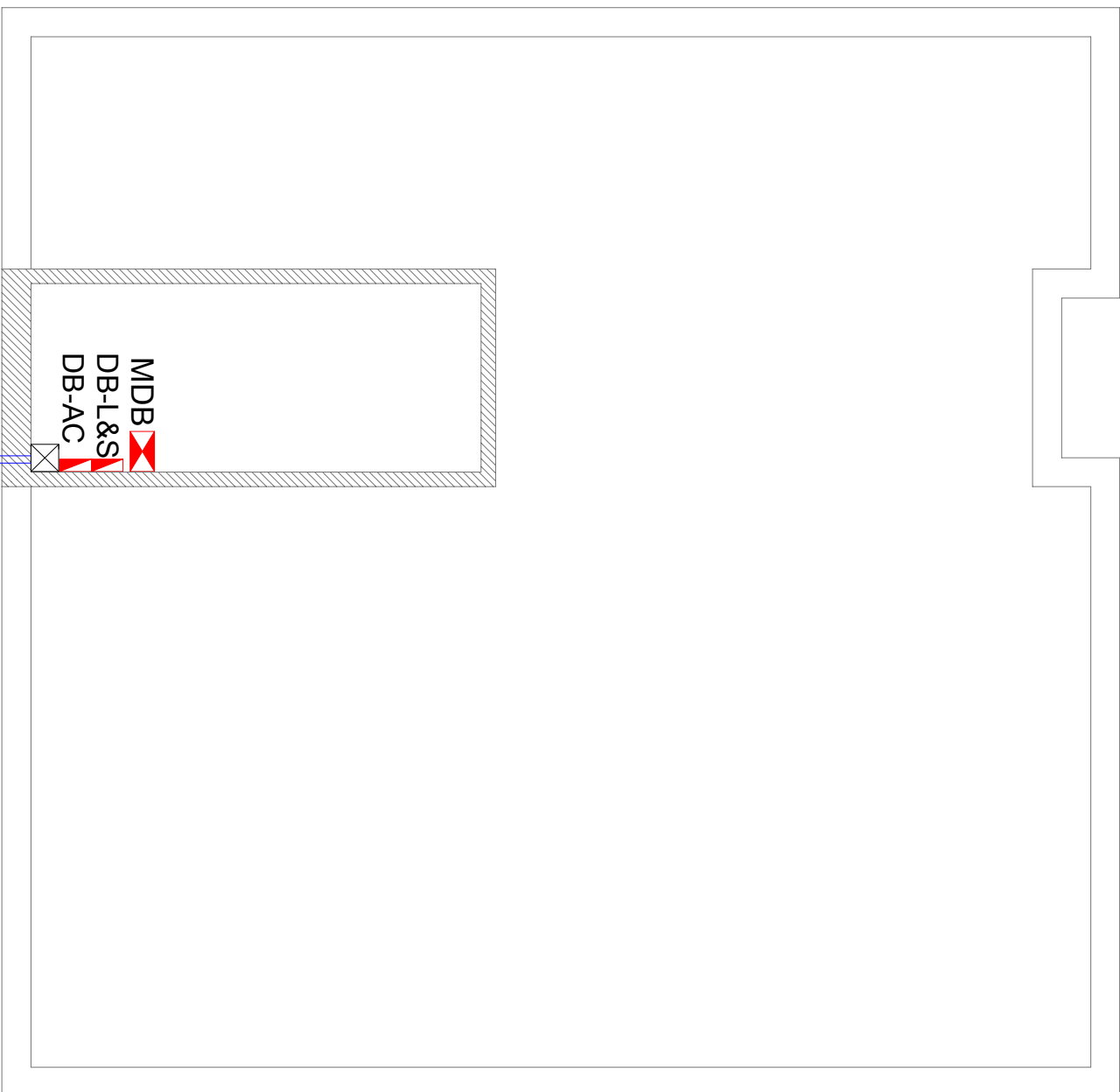
#### DRAWING STATUS

Diagram




#### SHEET NUMBER

06

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: ELEC-06	Revision:



**KEY PLAN**

-  Main Distribution Board
-  -3Phase Sub-Distribution Board
-  -3Phase Manholes

Notes: \_\_\_\_\_

**CLIENT**

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

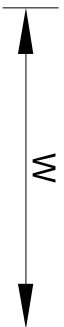
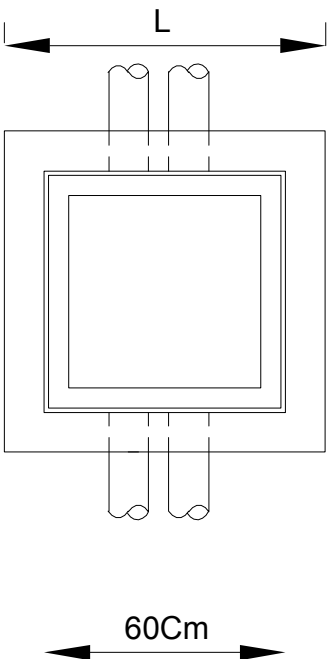
**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:** Distribution Panels of GROUND FLOOR & Manholes

<b>DRAWING Type</b>	ELECTRICAL
<b>DRAWING STATUS</b>	Plan
<b>SHEET NUMBER</b>	07
<b>Drawn:</b>	Checked:
<b>Designed:</b>	Approved:
<b>Date:</b> 2024	<b>Scale:</b>
<b>Drawing Number:</b> ELEC-07	<b>Revision:</b>



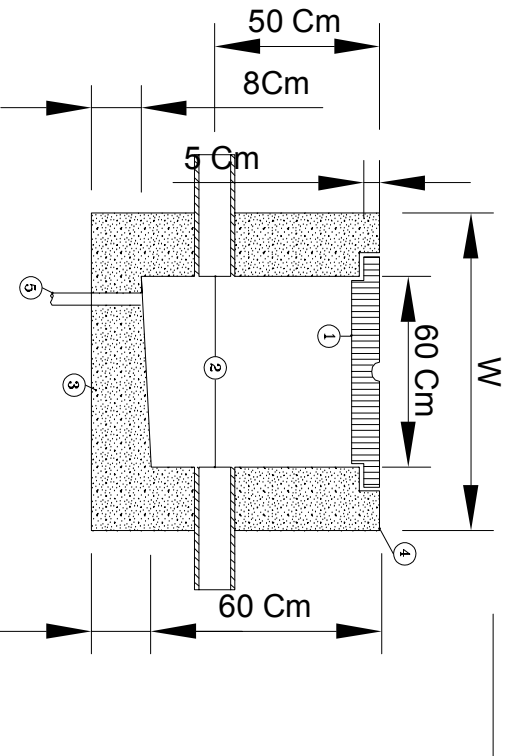
PLAN

**KEY**

- 1- CAST IRON COVER (WATER TIGHT).
- 2- P.V.C PIPE.
- 3- CONCRETE BASE 100MM THICKNESS.
- 4- GROUND LEVEL.
- 5- DRAINAGE HOLE.

**REMARKS:**

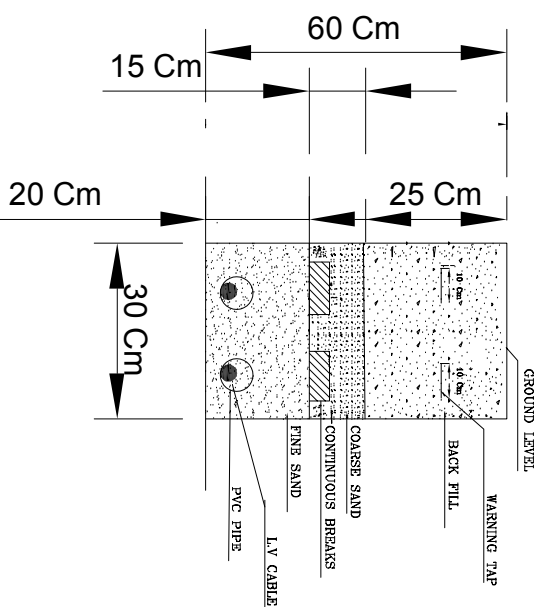
- 1. MANHOLE COVER SHOULD BE OF CAST IRON HINGED FRAME AND SHOULD PREVENT RAIN FROM FALLING INTO THE ROOM.
- 2. DUCTS RUN SHOULD BE STRAIGHT RUNS TO FACILTES PULLING OF THE CABLE
- 3. DRAINAGE SHOULD BE PROVIDED IN MAN HOLE TO KEEP IT FREE OF WATER THIS REQUIR THAT A PART OF THE MANHOLE FLOOR BE LEFT OPEN FOLLOWED WITH STONES.



ELEVATION

MANHOLE FOR POWER CABLES

# TYPICAL Cable Trench and Manholes



TYPICAL CABLE TRENCH DEATAIL – 30CM TYP

**KEY PLAN**

- Main Distribution Board
- 3-Phase Sub-Distribution Board
- 3-Phase Manholes
- Manholes

Notes: \_\_\_\_\_

**CLIENT**

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



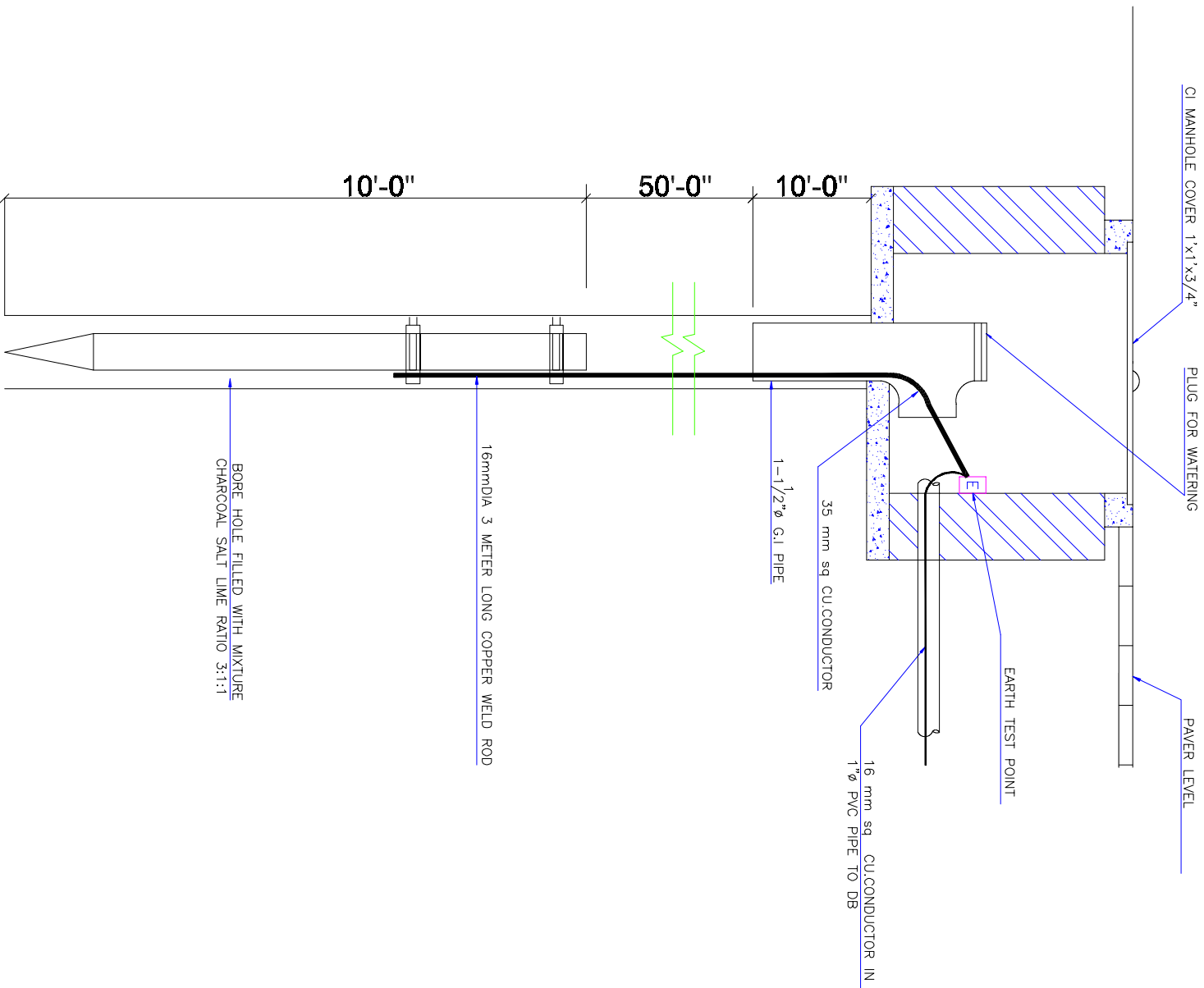
**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**



TYPICAL Cable Trench and Manholes

**DRAWING Type** ELECTRICAL  
**DRAWING STATUS** Detailed  
**SHEET NUMBER** 08

Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Designed: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Date: 2024  
Scale: \_\_\_\_\_  
Drawing Number: ELEC-08  
Revision: \_\_\_\_\_



KEY PLAN

-  Main Distribution Board
-  -3Phase Sub-Distribution Board
-  -3Phase Manholes

Notes: \_\_\_\_\_

**CLIENT**

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:** EARTHILING SET DETAIL

**DRAWING Type** ELECTRICAL  
**DRAWING STATUS** Detailed  
**SHEET NUMBER** 09

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: ELEC-09	Revision:



Project : Establishing, equipping and furnishing the agricultural and  
veterinary extension center, installing a solar energy system

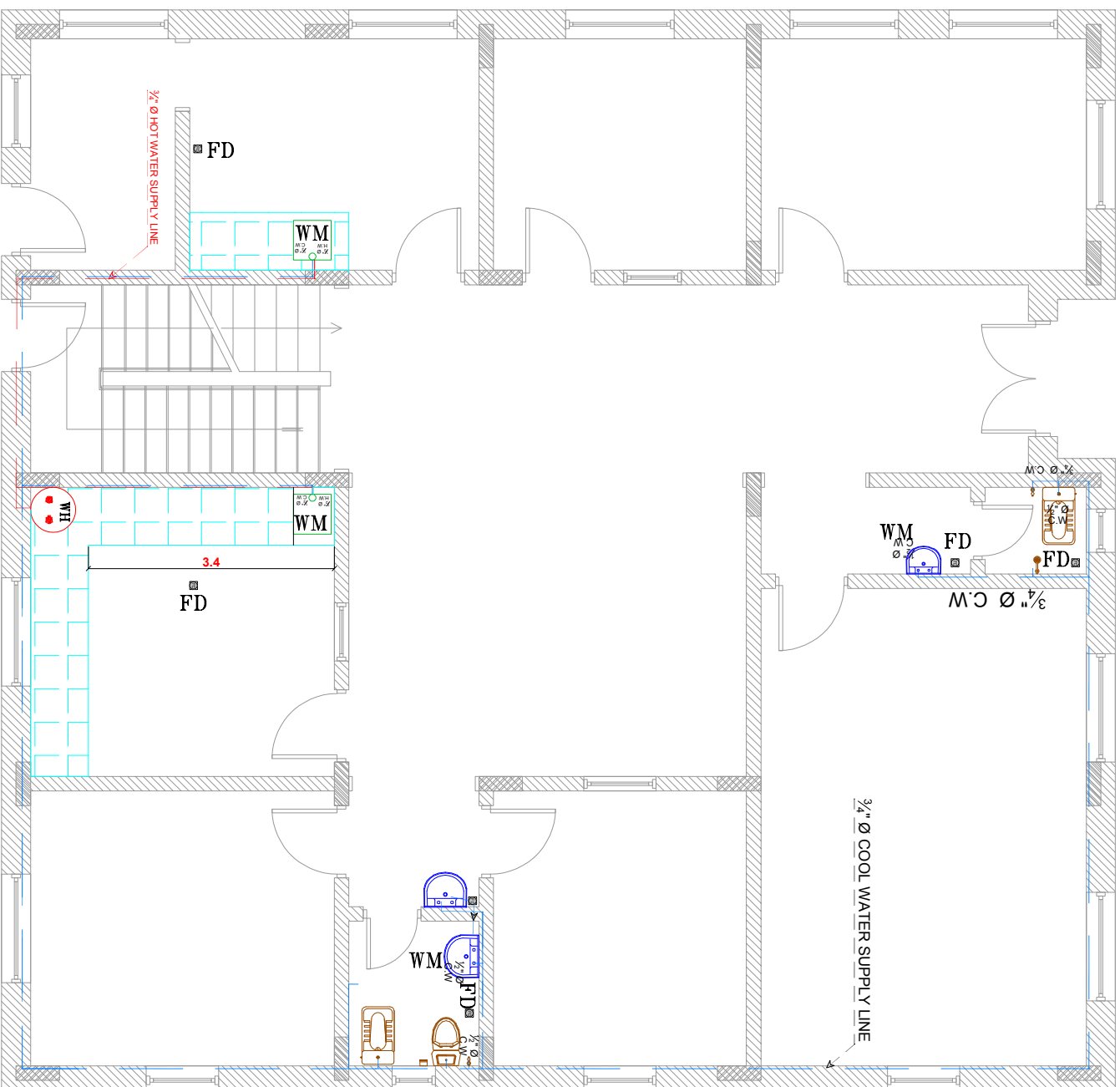
in Tuban District / Lahj Governorate

مشروع بناء وتجهيز وتأثيث مبنى الارشاد الزراعي والبيطري  
وتوريد نظام طاقة شمسية مديريّة تبن محافظة لحج -

Plumbing and

Sanitation Drawings

المخططات الصحية



GROUND FLOOR PLAN WATER SUPPLY LAYOUT

LEGEND:	
	HOT WATER
	COOL WATER
	Water Heater
	ISOLATING VALVE
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	WATER HEATER
	WASHING MACHINE
	WATER TANK
	Floor Drain
	HOSE SPRAY
	WATER METER BY OWNER
	WATER PUMP 1 HP
	Bench with cupboards for the lab
	Washing Basin

KEY PLAN

	HOT WATER
	COOL WATER
	Water Heater
	ISOLATING VALVE
	COLD WATER SUPPLY
	WATER HEATER
	HOT WATER SUPPLY
	WASHING MACHINE
	WATER TANK
	Floor Drain
	WATER METER BY OWNER
	Bench with cupboards for the lab
	Washing Basin

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

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**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District/ Lahj Governorate

**Drawing Name:**

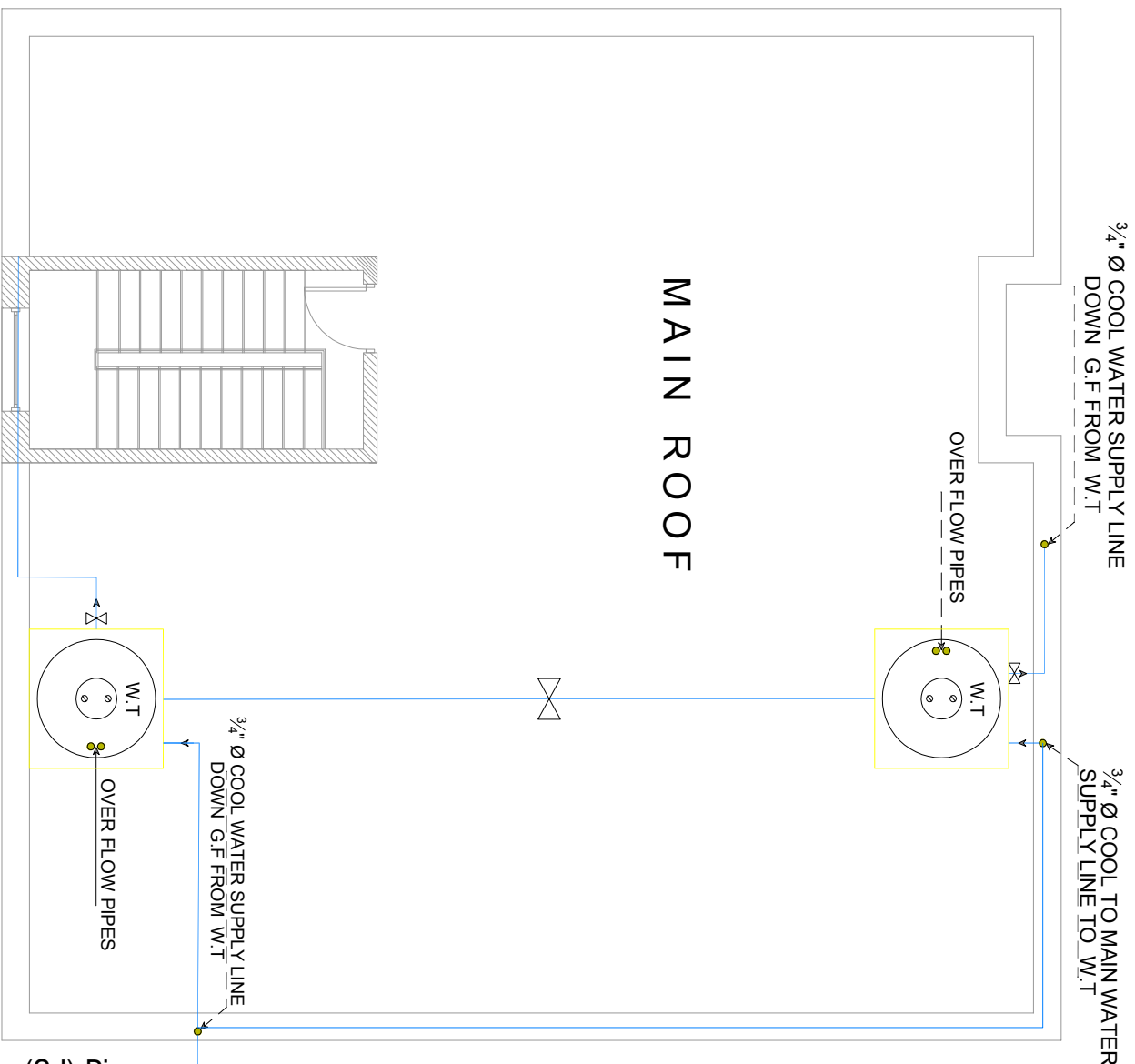
GROUND FLOOR PLUMPING WATER SUPPLY

<b>DRAWING Type</b>	PLUMPING
<b>DRAWING STATUS</b>	Plan
<b>SHEET NUMBER</b>	01

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number:	Revision:

Plump-01










# GROUND ROOF PLAN WATER SUPPLY LAYOUT

Galvanized Iron(G.I) Pipe from water supply project

## KEY PLAN

-  COOL WATER PIPE
-  PE WATER Tank
-  WATER METER
-  WATER Valve
-  G.I Pipe

## CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

### Drawing Name:

ROOF FLOOR PLAN  
PLUMPING WATER SUPPLY

### DRAWING TYPE

PLUMPING

### DRAWING STATUS

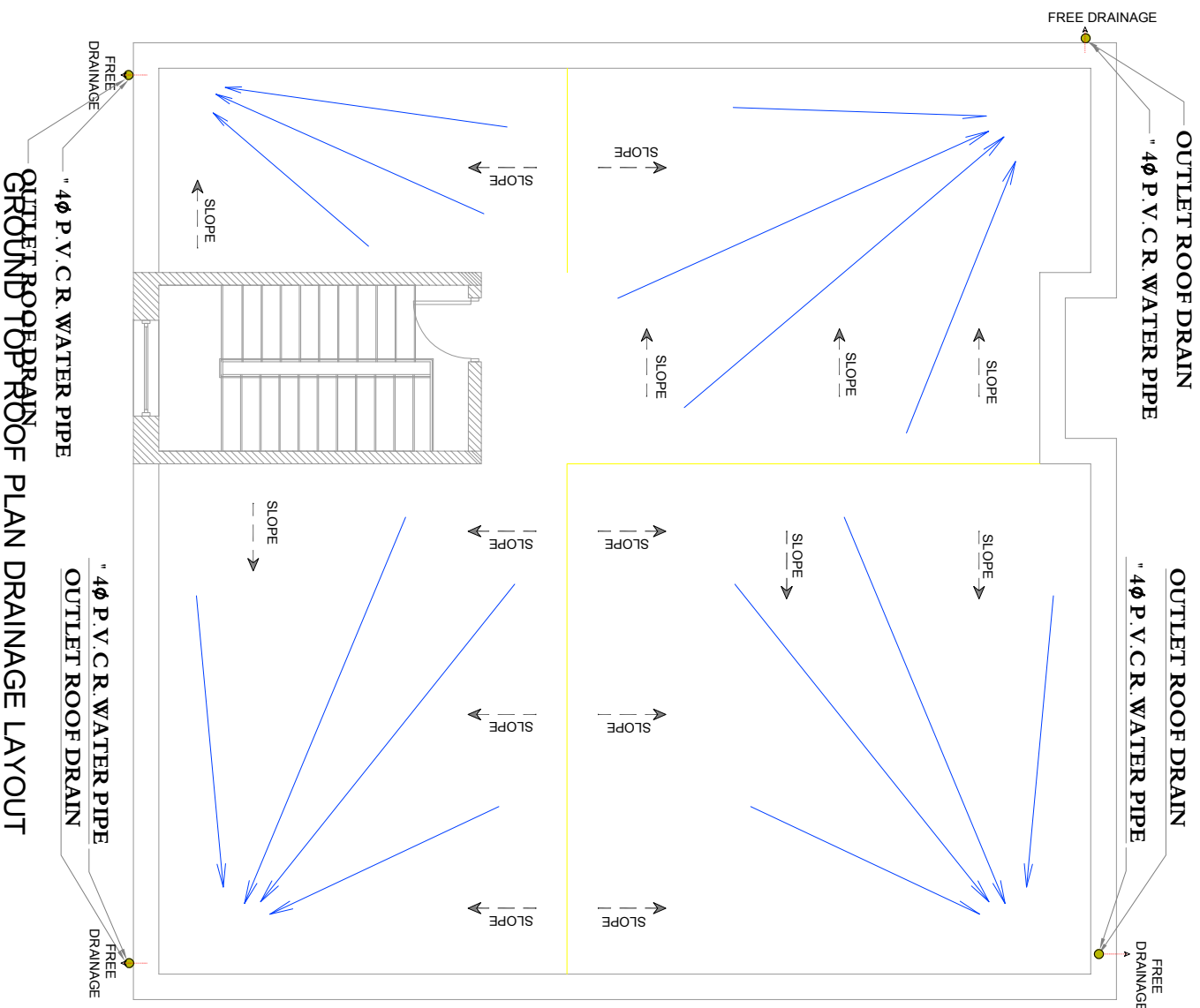
Plan

### SHEET NUMBER

02

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: Plump-02	Revision:





**GROUND TOP ROOF PLAN DRAINAGE LAYOUT**

**KEY PLAN**



**CLIENT**

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:** Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

**Drawing Name:**

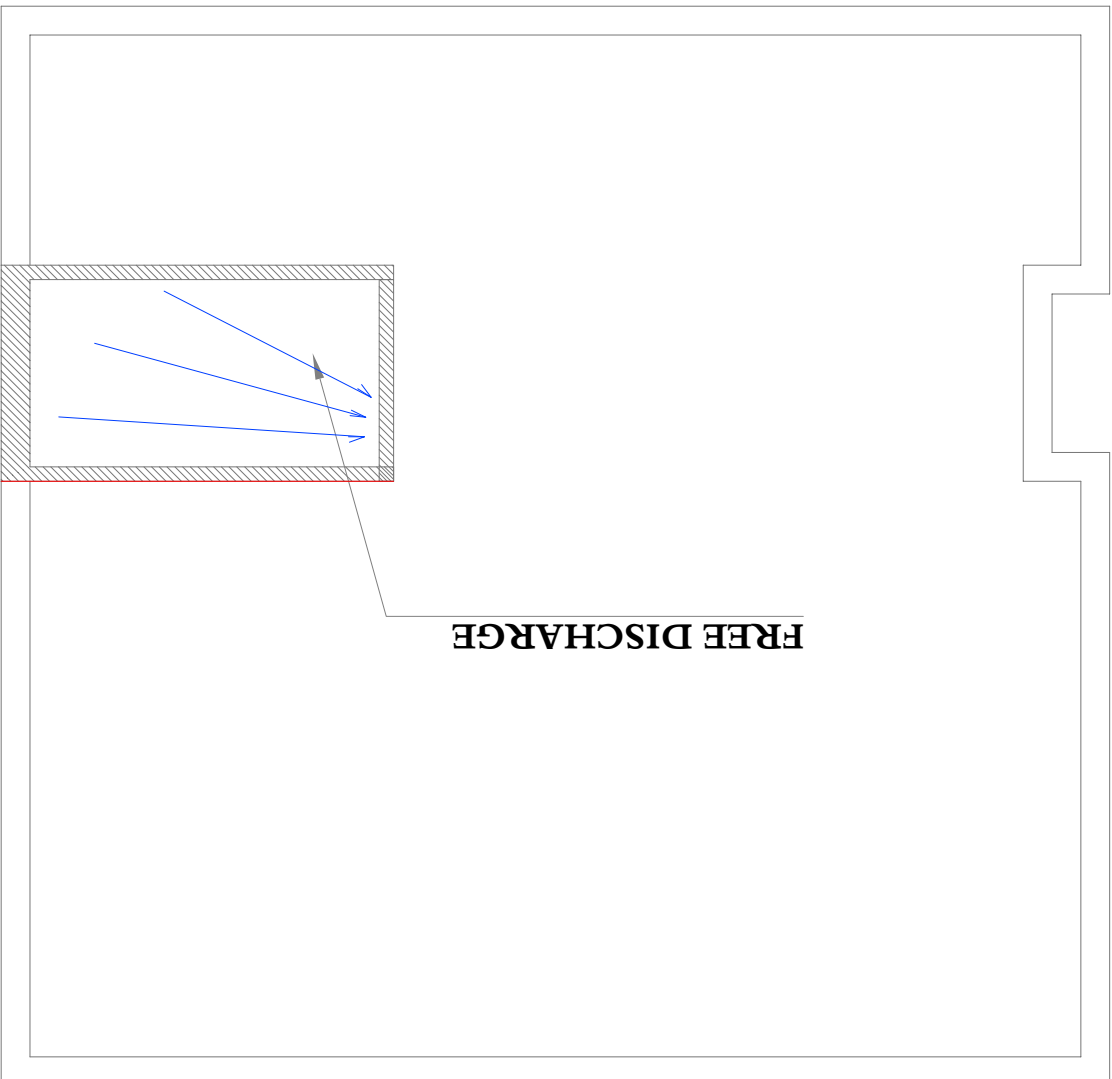
GROUND TOP ROOF PLAN  
RAIN DRAINAGE

**DRAWING TYPE** PLUMPING

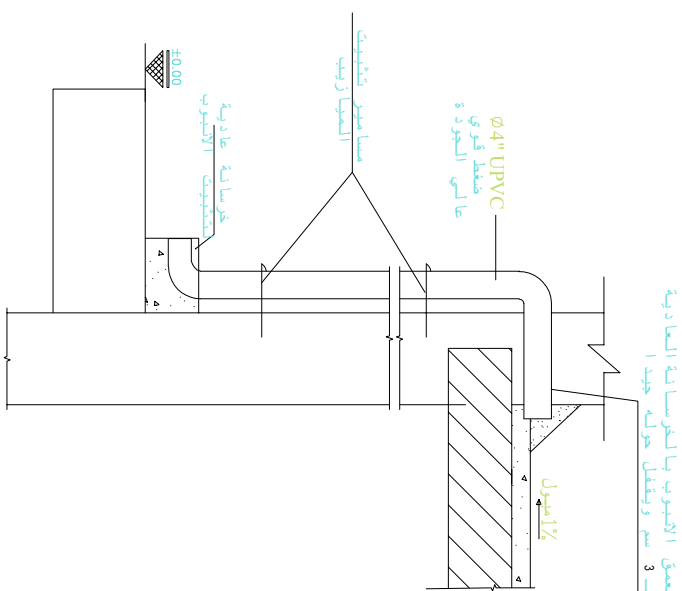
**DRAWING STATUS** Plan

**SHEET NUMBER** 04

Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: Plump-04	Revision:



STAIR TOP ROOF PLAN DRAINAGE LAYOUT



تفصيله توضح كيفية تركيبه انبوب مياه الامطار

KEY PLAN

Drainage Pipe "4"  
FLOW DIRECTION

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



Project:

Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

Drawing Name:

STAIR CASE TOP ROOF  
RAIN DRAINAGE

DRAWING Type PLUMPING

DRAWING STATUS Plan

SECRET NUMBER 05

Drawn: \_\_\_\_\_

Designed: \_\_\_\_\_

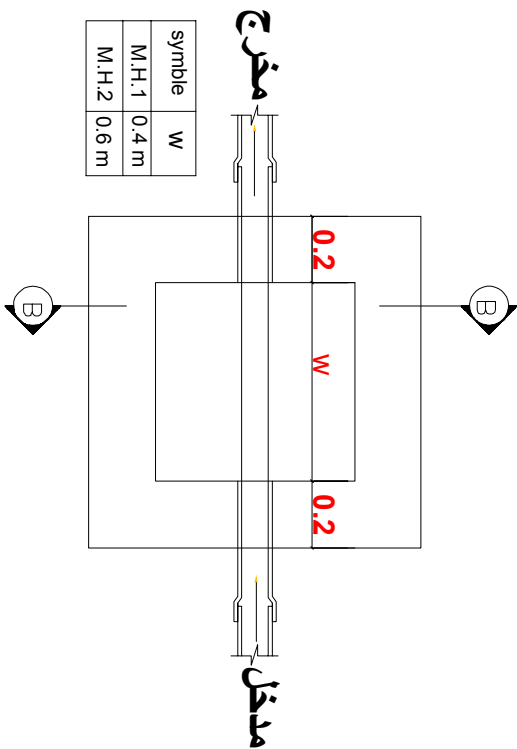
Approved: \_\_\_\_\_

Date: 2024

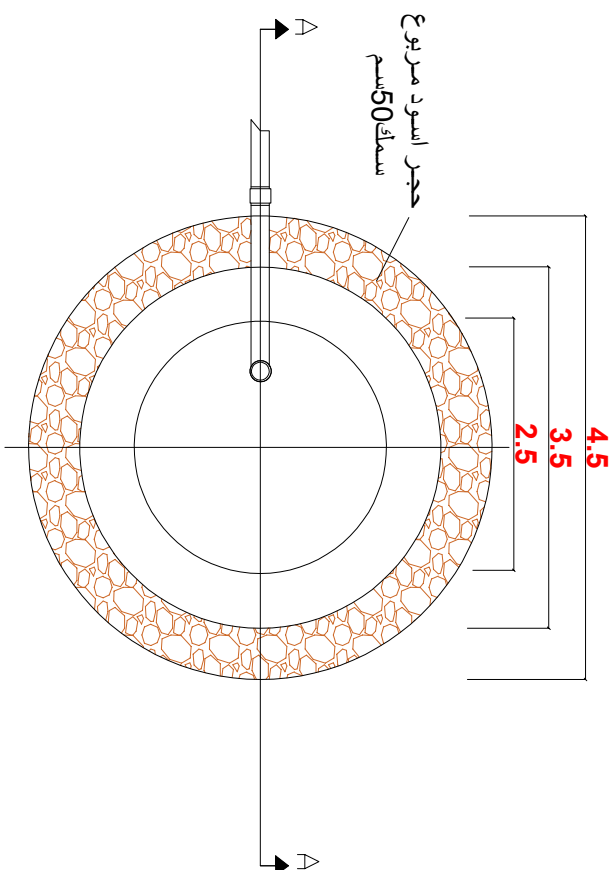
Scale: \_\_\_\_\_

Drawing Number: Plump-05

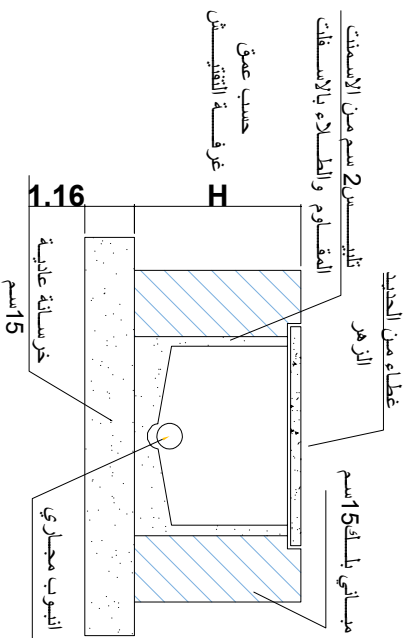
Revision:



## مسقط أفقي لغرفة التفقيش

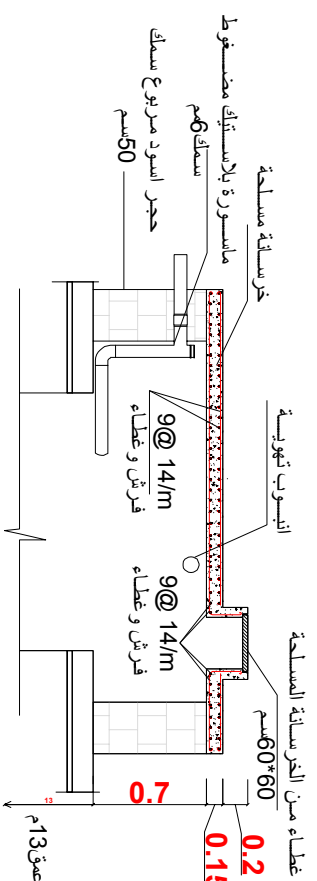


## مسقط أفقي للبيارة



## قطاع في غرفة التفقيش B-B

مقياس رسم



## مقطع راسي للبيارة A-A

KEY PLAN

Drainage Pipe "4"  
FLOW DIRECTION

CLIENT

REPUBLIC OF YEMEN  
Ministry of Agriculture, Irrigation and Fisheries  
Lahj Governorate Office

Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)



Project:

Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

Drawing Name:

Sewage Pit with manhole  
SEWERAGE DRAINAGE

DRAWING Type  
DRAWING STATUS

PLUMPING  
Plan

SHEET NUMBER  
06

Drawn: \_\_\_\_\_

Checked: \_\_\_\_\_

Designed: \_\_\_\_\_

Approved: \_\_\_\_\_

Date: 2024

Scale: \_\_\_\_\_

Drawing Number: Plump-06

Revision:



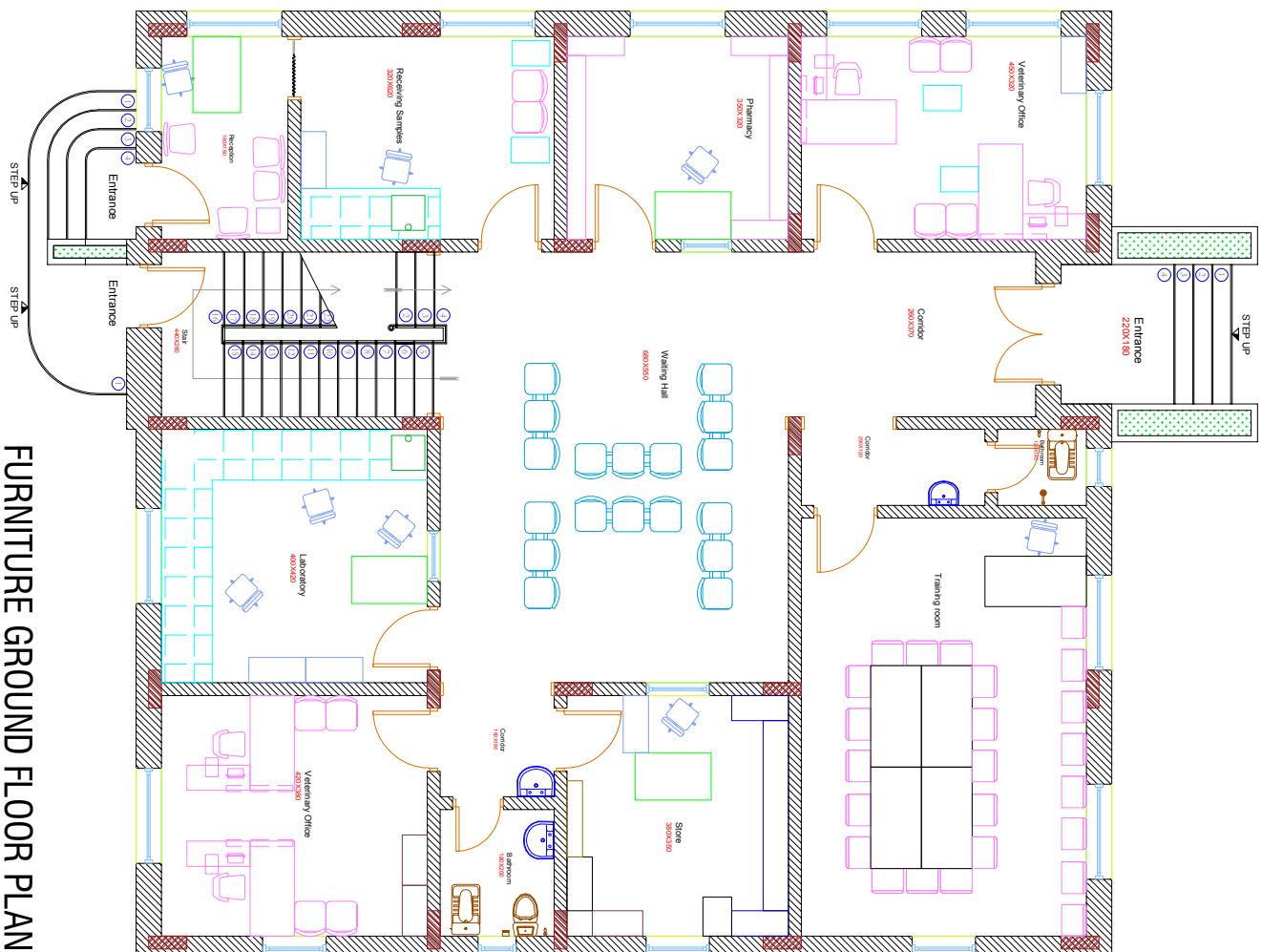
Project : Establishing, equipping and furnishing the agricultural and  
veterinary extension center, installing a solar energy system

in Tuban District / Lahj Governorate

مشروع بناء وتجهيز وتأثيث مبنى الارشاد الزراعي والبيطري  
وتوريد نظام طاقة شمسية مديرية تبين محافظة لحج -

# Furniture Plan

## مخطط الاثاث



# FURNITURE GROUND FLOOR PLAN

KEY PLAN	

**CLIENT**  
 REPUBLIC OF YEMEN  
 Ministry of Agriculture, Irrigation and Fisheries  
 Lahj Governorate Office

**Project:**  
**Project Strengthening Institutional and Economic Resilience in Yemen (SIERY)**



**Project:**  
 Establishing, equipping and furnishing the agricultural and veterinary extension center, installing a solar energy system in Tuban District / Lahj Governorate

<b>Drawing Name:</b> GROUND FLOOR Furniture	
<b>DRAWING TYPE</b> Furniture	<b>DRAWING STATUS</b>
<b>SECRET NUMBER</b>	<b>SECRET NUMBER</b>
Drawn:	Checked:
Designed:	Approved:
Date: 2024	Scale:
Drawing Number: Fur-01	Revision: