

DESIGNS AND DRAWINGS.

**ALBAQIRIYA WATER PROJECT - MOCHA DISTRICT - TAIZZ
GOVERNORATE**

PROJECT TITLE:

RAINS OF RESILIENCE

DEVELOPED BY:



FUNDED BY:



REHABILITATION OF ALBAQIRIYA WATER SYSTEM:

SUPPLY AND INSTALL SOLAR PUMPING SYSTEM, CONSTRUCT NEW TOWER TANK, INSTALL NEW WATER NETWORKS, AND REHABILITATE

OPERATION ROOM

DRAWING LIST:

NO	DRAWING TITLE	NO	DRAWING TITLE	NO	DRAWING TITLE
A1- 01	TABLE OF CONTENTS	A1- 12	COMBINER BOX AND CABLE TRAY DETAILS	A1- 23	TOWER TANK ELEVATION AND PLAN
A1- 02	GENERAL NOTES	A1- 13	EARTH PIT DETAILS	A1- 24	TOWER TANK COLUMN AND FOOTING DETAILS
A1- 03	SOLAR SITE PLAN	A1- 14	LIGHTNING PROTECTION SYSTEM	A1- 25	TOWER TANK COLUMN AND FOOTING DETAILS
A1- 04	SOLAR MOUNT 3D MODEL VIEW	A1- 15	SITE LIGHTING DETAILS	A1- 26	TOWER TANK WALL DETAILS
A1- 05	SOLAR MOUNT FRAMING PLAN	A1- 16	PROTECTION FENCE	A1- 27	TOWER TANK WALL DETAILS
A1- 06	SOLAR FOOTING STRUCTURAL DETAILS	A1- 17	PROTECTION FENCE DETAILS	A1- 28	TOWER TANK ROOF DETAILS
A1- 07	SOLAR MOUNT SIDE ELEVATION DETAILS	A1- 18	MAIN ENTRANCE GATE	A1- 29	TOWER TANK PAVING DETAILS
A1- 08	SOLAR MOUNT FRAME STRUCTURAL DETAILS	A1- 19	WATER NETWORK PLAN with Map	A1- 30	METAL SIGN FOR PROJECT COMPLETION
A1- 09	MOUNTING FRAME DETAILS	A1- 20	WATER NETWORK PLAN	A1- 31	PAINTED SIGN FOR PROJECT COMPLETION
A1- 10	SUBMERSIBLE PUMP PLUMBING DETAILS	A1- 21	EXCAVATION, BACKFILL, WATER NETWORK DETAILS		
A1- 11	SUBMERSIBLE PUMP WIRING DIAGRAM	A1- 22	VALVE ROOM DETAILS		

Prepared by:


Samaritan's Purse®
INTERNATIONAL RELIEF

Funded by:


Samaritan's Purse®
INTERNATIONAL RELIEF

Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

Table of contents

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Paper Size: A3


Date

15/07/2024

Scale

As Shown

North:



Drawing No:

A1-01

General Notes:

1- The concrete cover at the footings is 8 cm
In the beams ,columns ,walls ,floor and roof of the tank 8cm.

2- All concrete work for the footings ,columns ,bridges ,and tank body must be carried out according to the resistance mentioned in the table of quantities and according to the specified mixing ratios ,and the amount of water should not exceed 180liters/cubic meter of concrete .The water must be non-salty ,pure ,and contain cement according to the line ratios specified in the table of quantities ,with tests conducted .Necessary for construction materials ,concrete cube samples ,and all that is necessary ,according to the engineer's instructions.

3- The strength of the steel used for all structural concrete elements is not less than 250 Newton/mm2.

4- The wood and concrete molds that the contractor will use for concrete works must be clean ,new ,and not out service or not good.

5- The concrete must be sprayed and immersed in pure water throughout the day and for a period of not less than 10days .The columns ,suspension bridges ,and the tank body from the outside must be bagged with special mesh bags for the spraying process ,and they must be saturated with water throughout the day and night at every hour.

6- Samples of all materials used must be approved by the engineer before they are supplied.

7- The engineer must be notified upon completion of the woodwork to receive it ,as well as the ironwork .Casting cannot be completed except in the presence of the engineer ,and he must be notified one day before the appointment.

8- All work must be carried out according to what is shown in the items in the tables of quantities and drawings.

09- The length of the main steel connection to the columns between the floors is not less than 80 cm.

ملاحظات عامة:

1- الغطاء الخرسانة في القواعد 8 سم وفي الجسور والاعمدة وجدران وارضية وسقف الخزان 8 سم.

2- يجب تنفيذ جميع اعمال الخرسانات للقواعد والاعمدة والجسور وجسم الخزان بحسب المقاومة المذكورة في جدول الكميات وبحسب نسب الخلط المحددة وكمية المياه لاتزيد عن 180 لتر/متر مكعب خرسانة وبحسب ان تكون المياه غير ملحه ونقية وبمحتوي اسمنت بحسب نسب الخط المحددة بجدول الكميات مع اجراء الاختبارات اللازمة لمواد الانشاء وعينات المكعبات الخرسانية وجميع مايلزم وبحسب تعليمات المهندس.

3- قوة الحديد المستخدم لجميع العناصر الخرسانية الانشائية لاتقل عن 250 نيوتن/ملم2.

4- يجب ان تكون الاخشاب وقوالب الخرسانة التي سيستخدمها المقاول للاعمال الخرسانة نظيفة او جديدة وغير متهاله.



5- يجب الرش وغمر الخرسانة بالمياه النقية طوال اليوم و لمدة لاتقل عن 10ايام الاعمدة والجسور المعلقه وجسم الخزان من الخارج يجب عمل لها تكييف باكياس شلتيه حيش خاصة بعملية الرش ويتم تشبيعه بالمياه طول النهار والليل علا كل ساعة .

6- يجب اعتماد عينات لجميع المواد المستخدمة من قبل المهندس قبل توريدها.

7- يجب ابلاغ المهندس عند الانتهاء من اعمال التشبييه لاستلامها وكذلك من اعمال الحديد ولا يتم الصب الا بحضور المهندس ويجب ابلاغه قبل الموعد بيوم واحد.

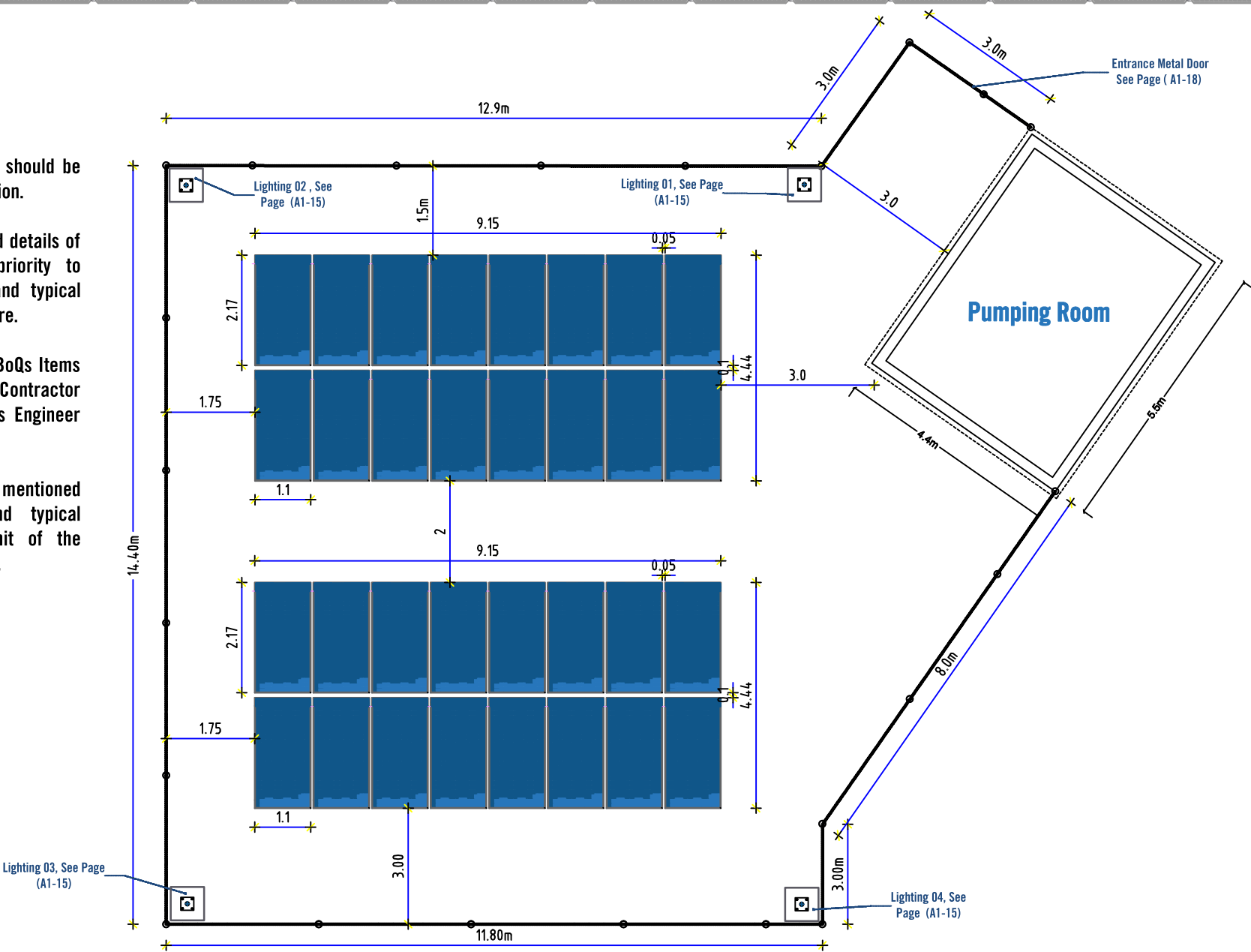
8- يجب تنفيذ جميع الاعمال بحسب ما هو موضح في بنود جداول الكميات والرسومات.

9- طول الاشتراك الحديد الرئيسي للاعمدة بين الادوار لا تقل عن 80 سم.




Prepared by:  Samaritan's Purse INTERNATIONAL RELIEF	Funded by:  Samaritan's Purse INTERNATIONAL RELIEF	Project Title: REHABILITATIONS OF ALBAQIRIYA WATER PROJECT Project Location: MOCHA DISTRICT - TAIZ GOV.	Drawing Title: GENERAL NOTES Project Name: RAINS OF RESILIENCE 2024	Designed and reviewed by: SPRY - WASH Sector Approved by: SPRY - WASH Sector	Status: Final Draft Project No: Date 15/07/2024	Paper Size: A3 Scale As Shown	North: 	Drawing No: A1-02
---	--	---	--	---	---	--	---	----------------------

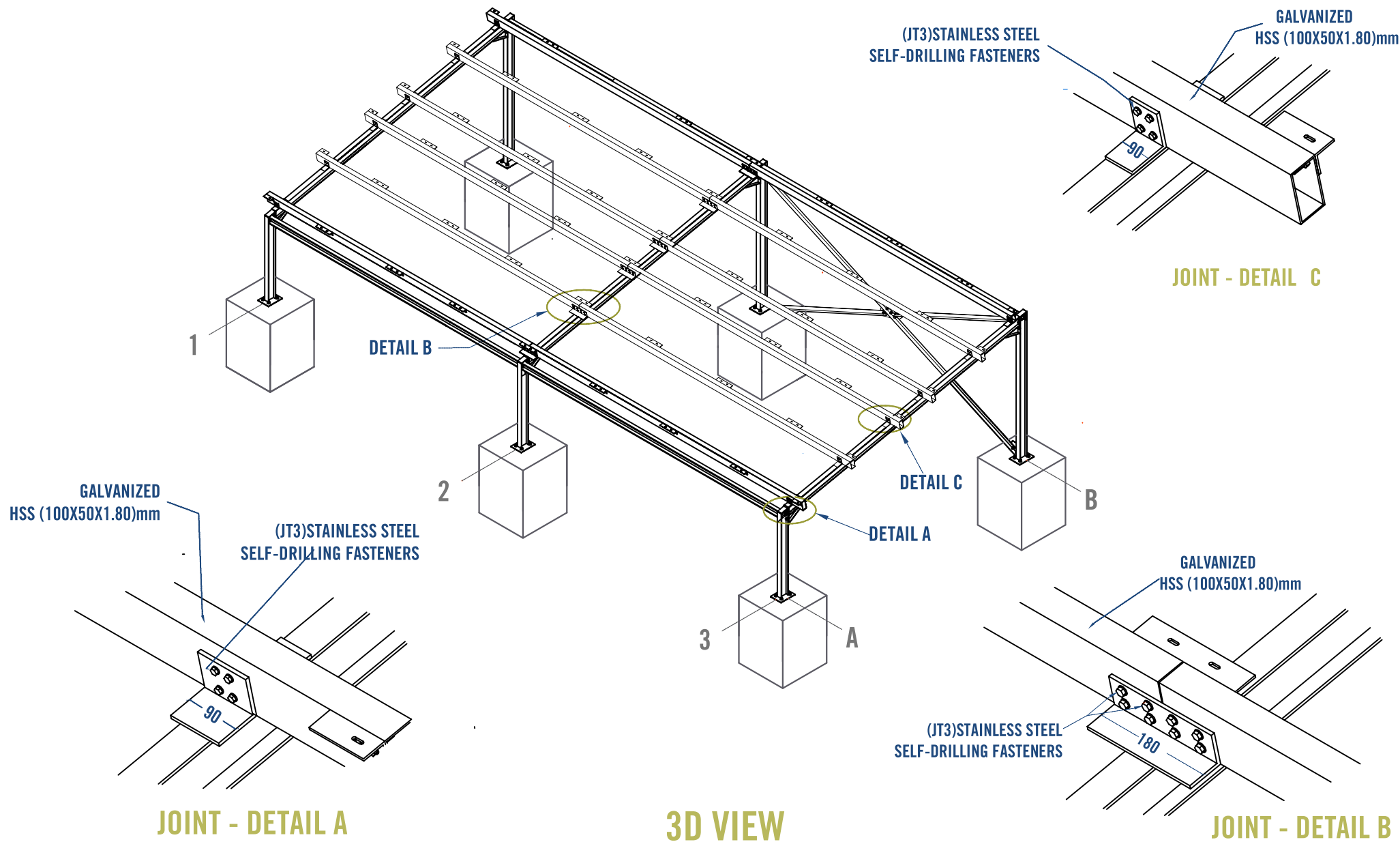
Notes:

- 1. All the dimensions should be checked before execution.
- 2. The main items and details of the drawings have priority to general main items and typical drawings of the structure.
- 3. All the Drawings , BoQs Items should be checked By Contractor with Samaritan Purse's Engineer before execution.
- 4. Unless otherwise mentioned in the drawings and typical detailed drawings, unit of the dimension is meter (m).



Solar Site plan

<div>Prepared by:</div> <div></div> <div>Samaritan's Purse®</div> <div>INTERNATIONAL RELIEF</div>	<div>Funded by:</div> <div></div> <div>Samaritan's Purse®</div> <div>INTERNATIONAL RELIEF</div>	Project Title:	Drawing Title:	Designed and reviewed by:	Status:				North:	Drawing No:
		REHABILITATIONS OF ALBAQIRIYA WATER PROJECT	SOLAR SITE PLAN	SPRY - WASH Sector	Final Draft					A1-03
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	A3			
		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2024	SPRY - WASH Sector	Date	15/07/2024	Scale	As Shown		



Prepared by:
Samaritan's Purse®
INTERNATIONAL RELIEF

Funded by:
Samaritan's Purse®
INTERNATIONAL RELIEF

Project Title:
REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT
Project Location:
MOCHA DISTRICT - TAIZ GOV.

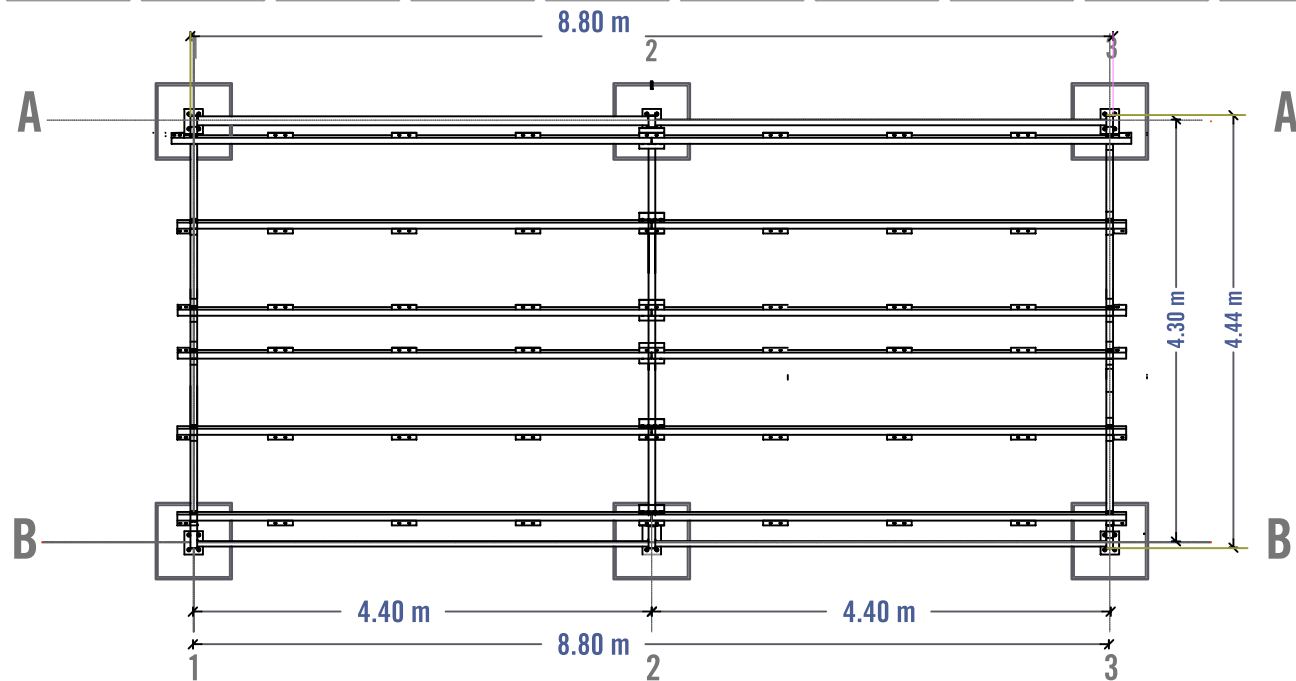
Drawing Title:
SOLAR MOUNT 3D MODEL VIEW
Project Name:
RAINS OF RESILIENCE 2024

Designed and reviewed by:
SPRY - WASH Sector
Approved by:
SPRY - WASH Sector

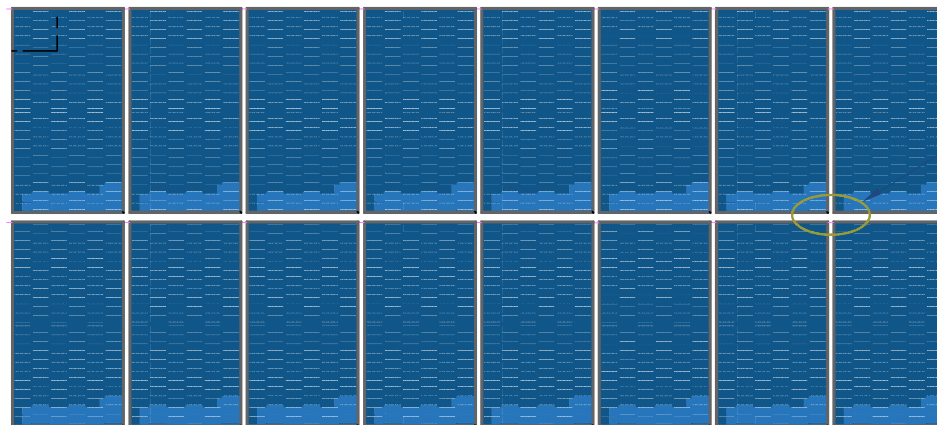
Status:
Final Draft
Project No:
Date: 15/07/2024
Paper Size: A3
Scale: As Shown

North:
N
W
E
S

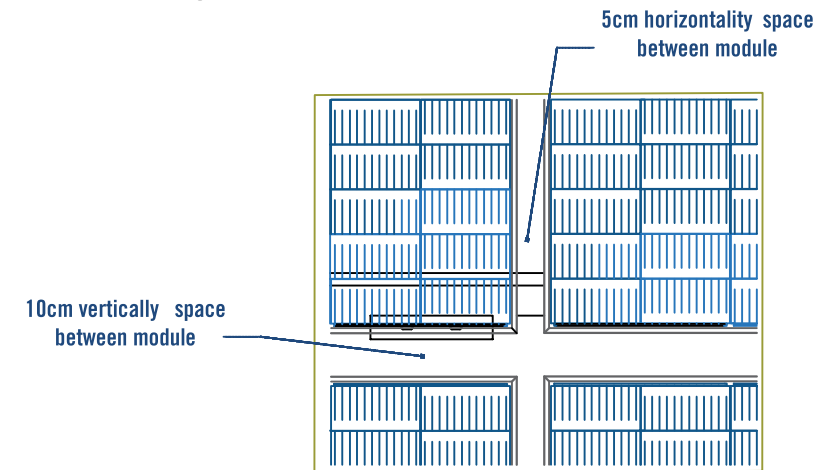
Drawing No:
A1-04



FRAMING PLAN



PLAN OF SOLAR PANEL ARRAY



SOLAR PANEL DETAIL A

FULL FRAMING PLAN

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

SOLAR MOUNT FRAMING PLAN

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: A3

Scale

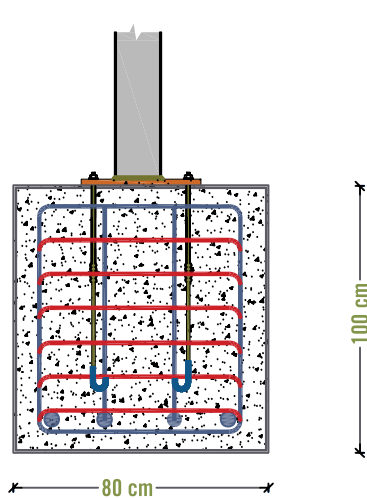
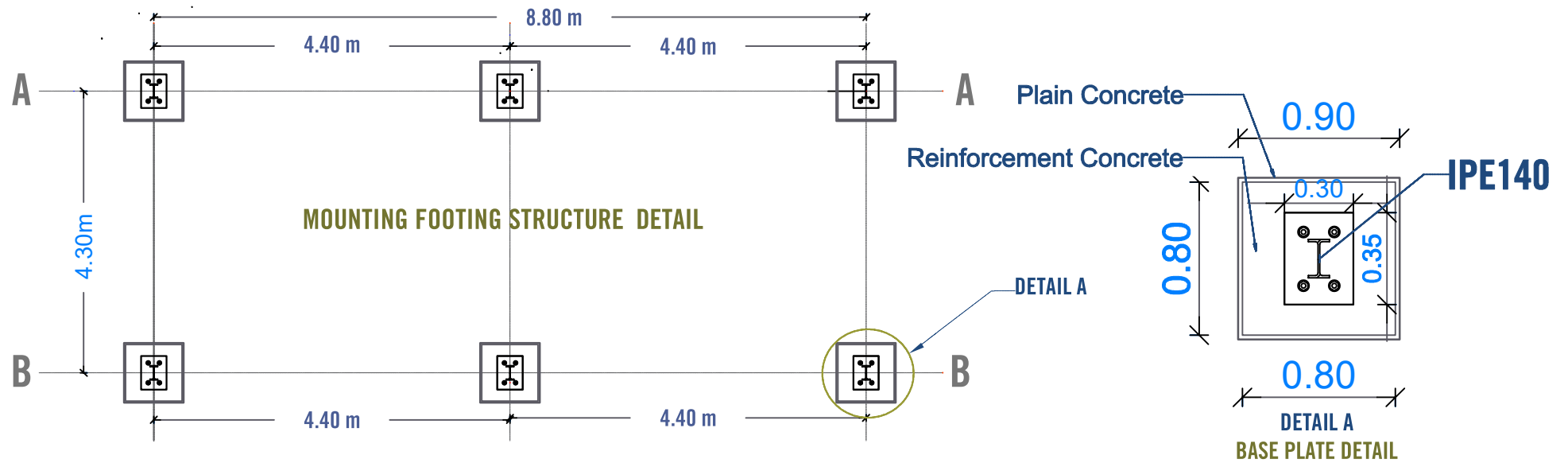
As Shown

North:

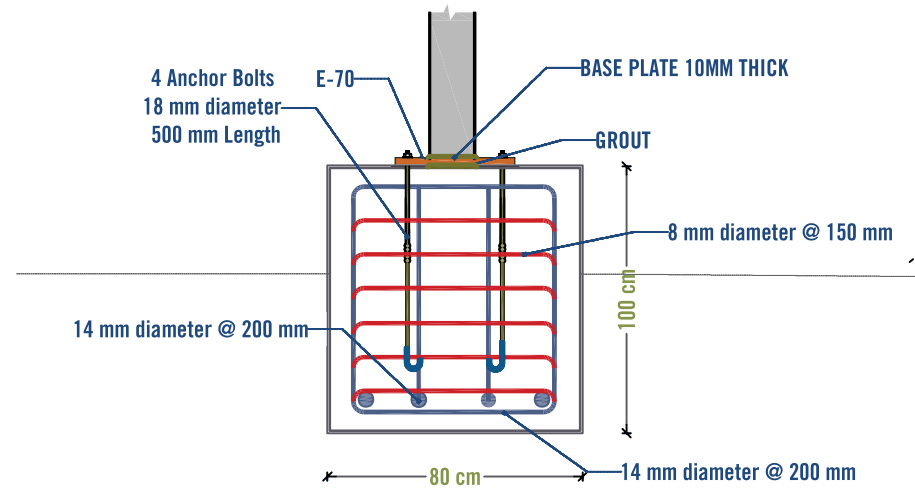


Drawing No:

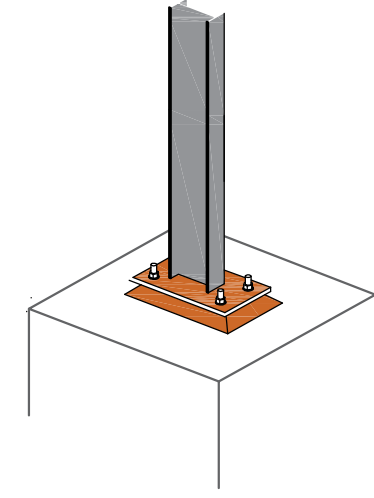
A1-05



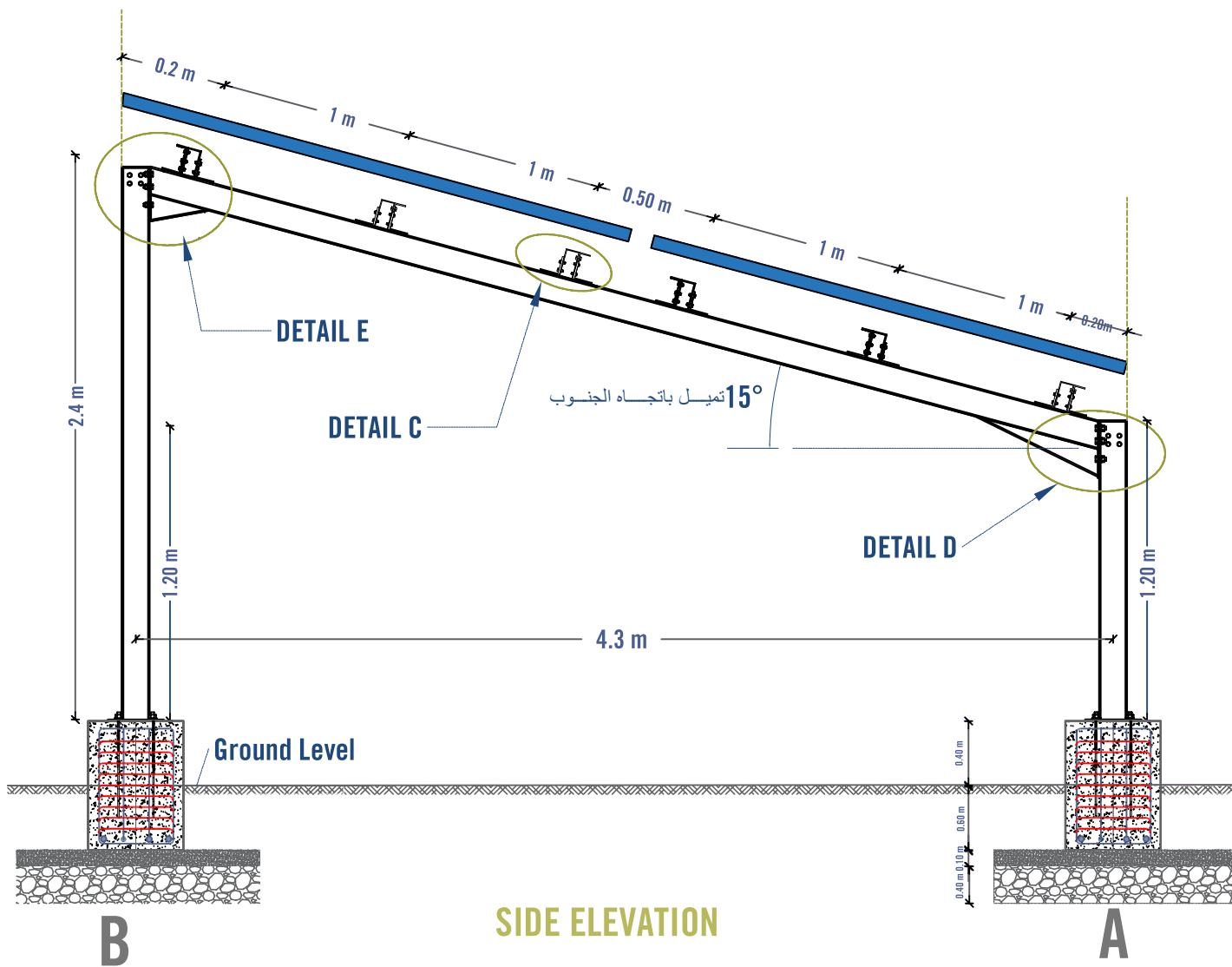
CONCRETE FOOTING DETAIL



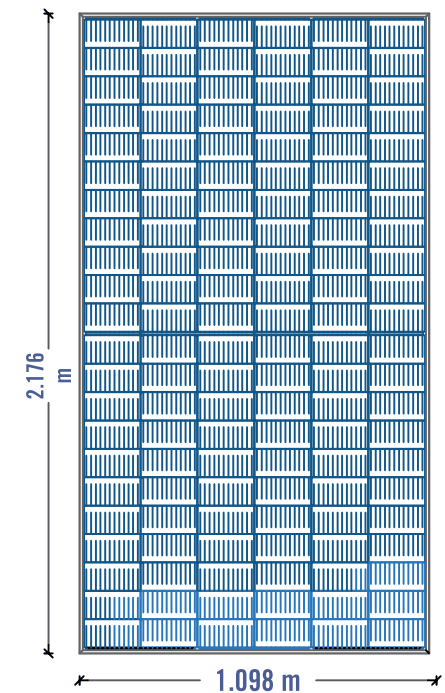
BASE PLATE DETAIL



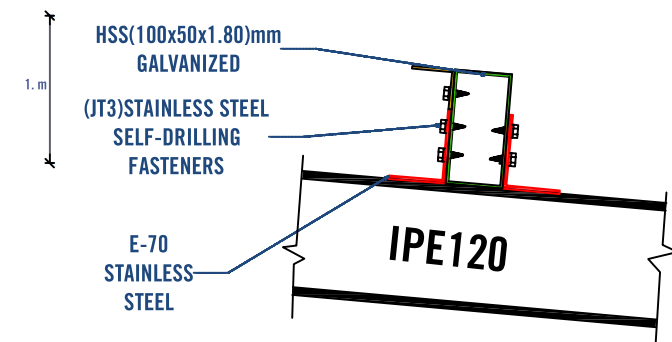
BASE PLATE DETAIL




SIDE ELEVATION

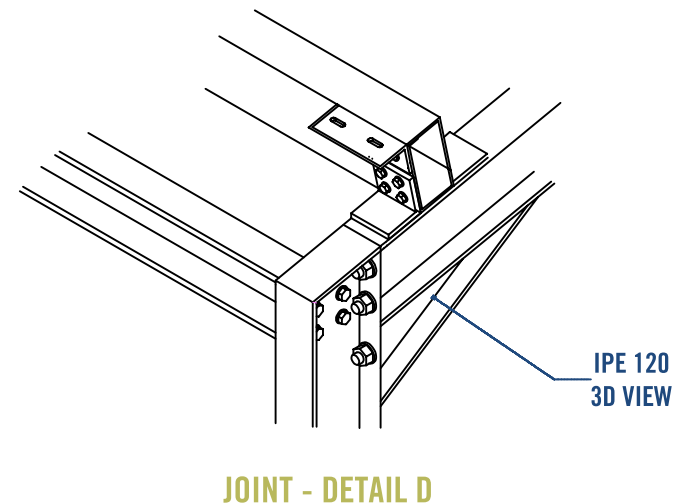
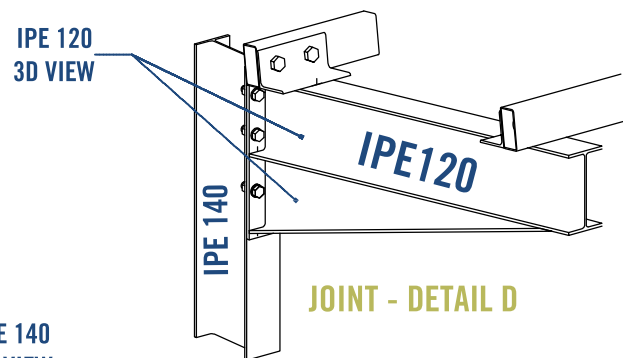
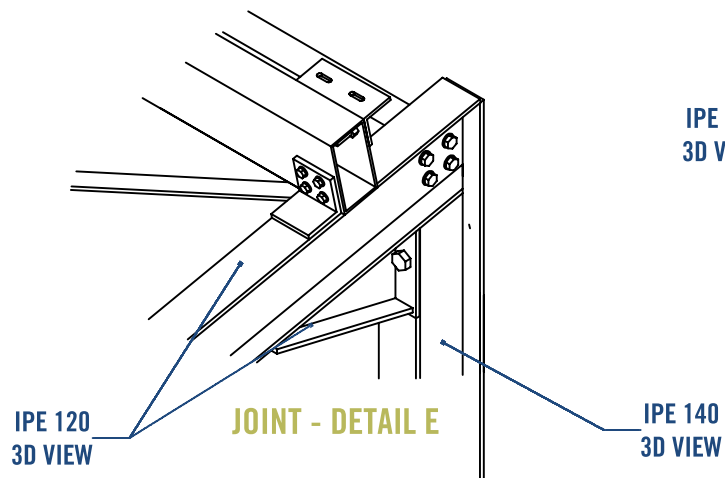
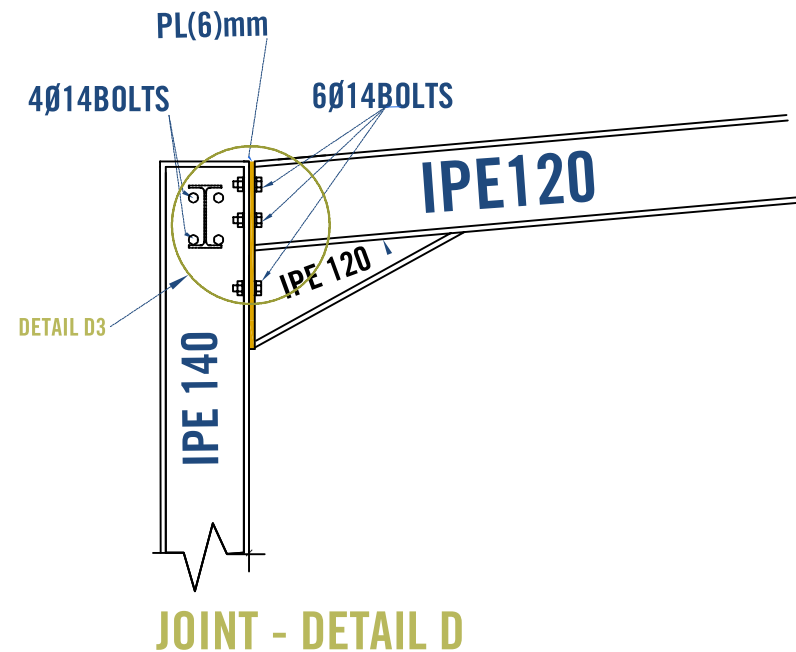
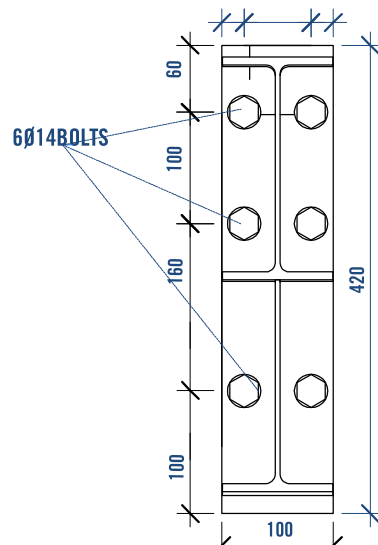
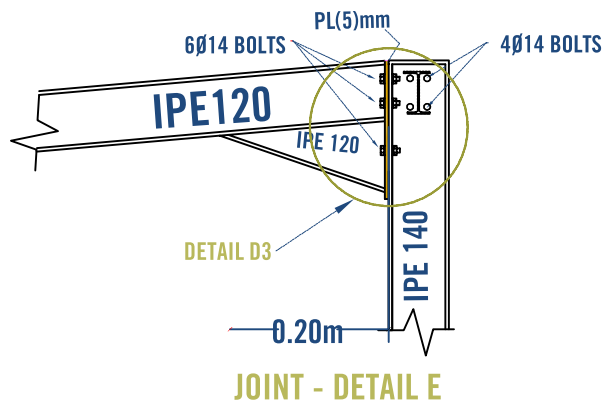


Panel Dimension



JOINT - DETAIL C

Prepared by:  Samaritan's Purse® INTERNATIONAL RELIEF	Funded by:  Samaritan's Purse® INTERNATIONAL RELIEF	Project Title: REHABILITATIONS OF ALBAQIRIYA WATER PROJECT	Drawing Title: SOLAR MOUNT SIDE ELEVATION DETAILS	Designed and reviewed by: SPRY - WASH Sector	Status: Final Draft	North: 	Drawing No: A1-07
		Project Location: MOCHA DISTRICT - TAIZ GOV.	Project Name: RAINS OF RESILIENCE 2024	Approved by: SPRY - WASH Sector	Project No: 15/07/2024	Paper Size: A3	
					Date: 15/07/2024	Scale: As Shown	



JOINT DETAIL

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

SOLAR MOUNT FRAME STRUCTURAL DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: **A3**

Scale

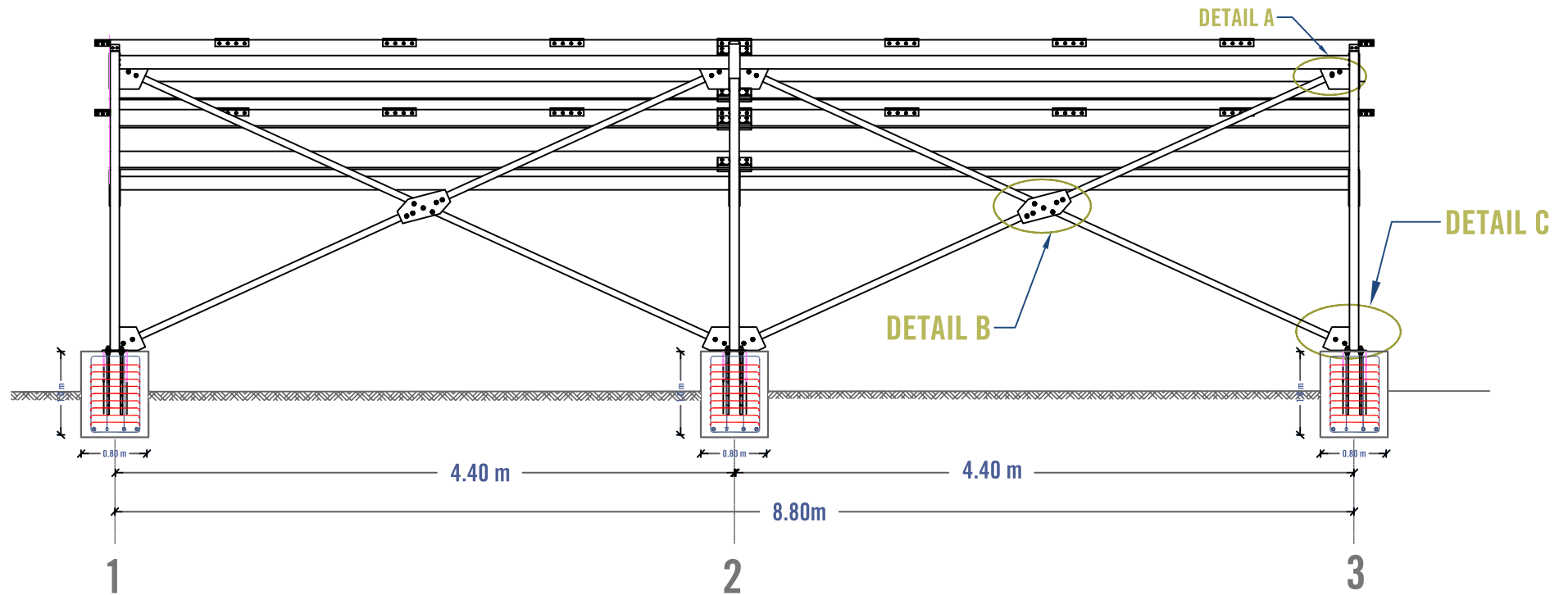
As Shown

North:

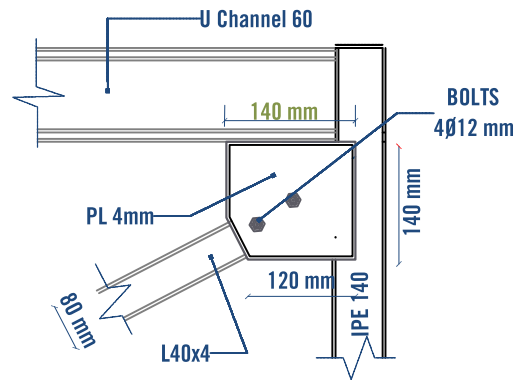


Drawing No:

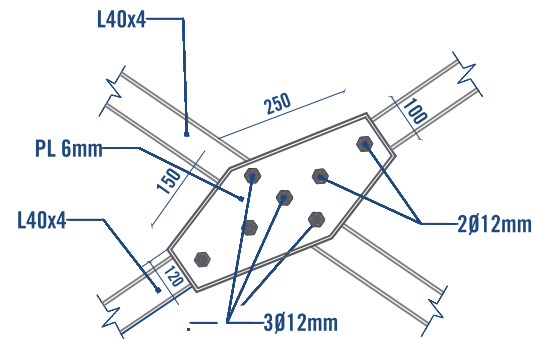
A1-08



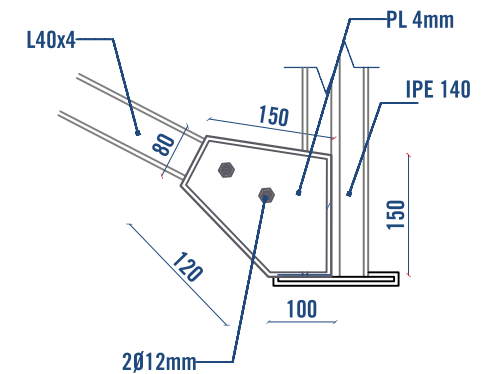
BACK ELEVATION



JOINT - DETAIL A



JOINT - DETAIL B



JOINT - DETAIL C

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

MOUNTING FRAME DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: A3

Scale

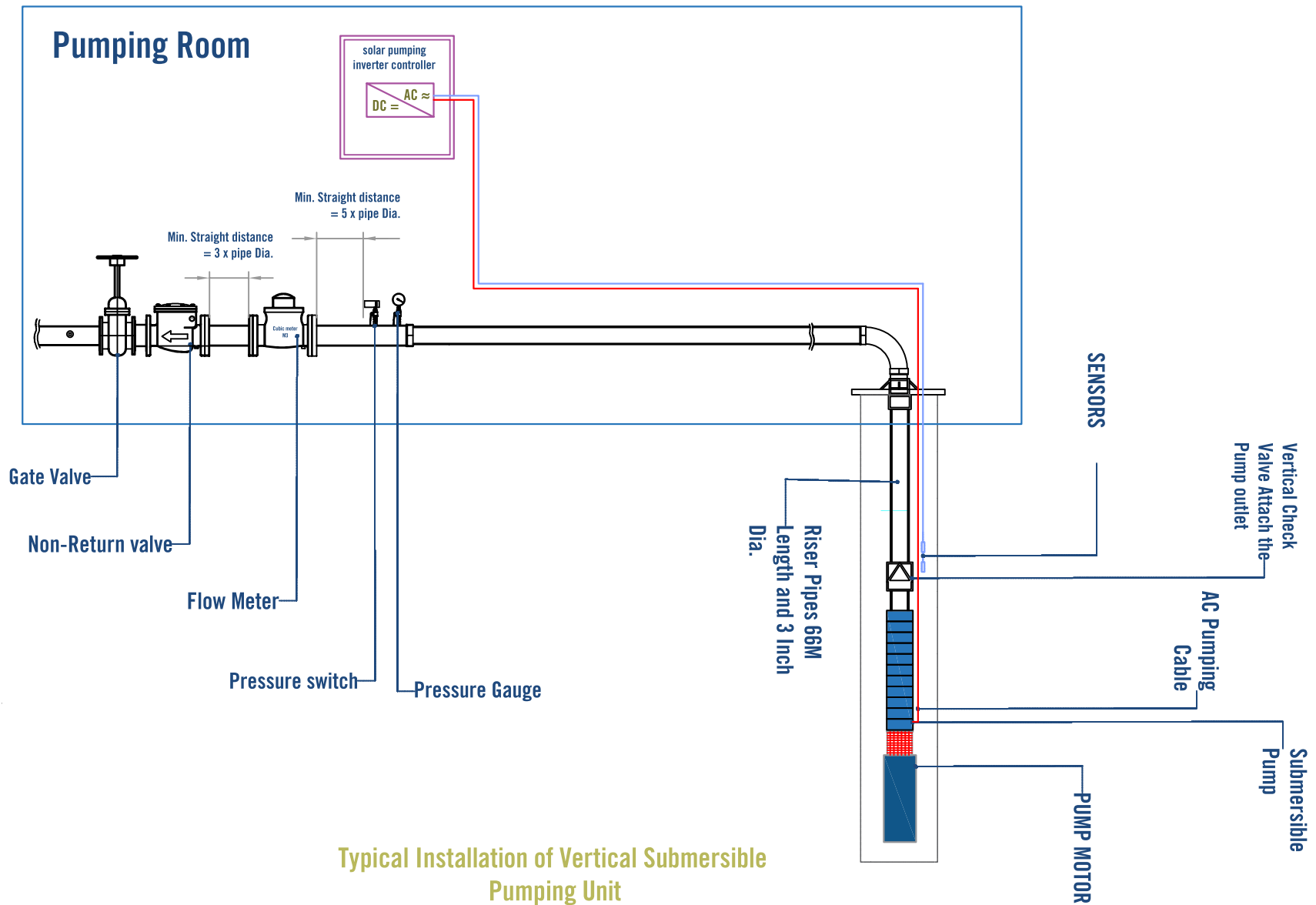
As Shown

North:



Drawing No:

A1-09



Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

SUBMERSIBLE PUMP PLUMBING DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: **A3**

Scale

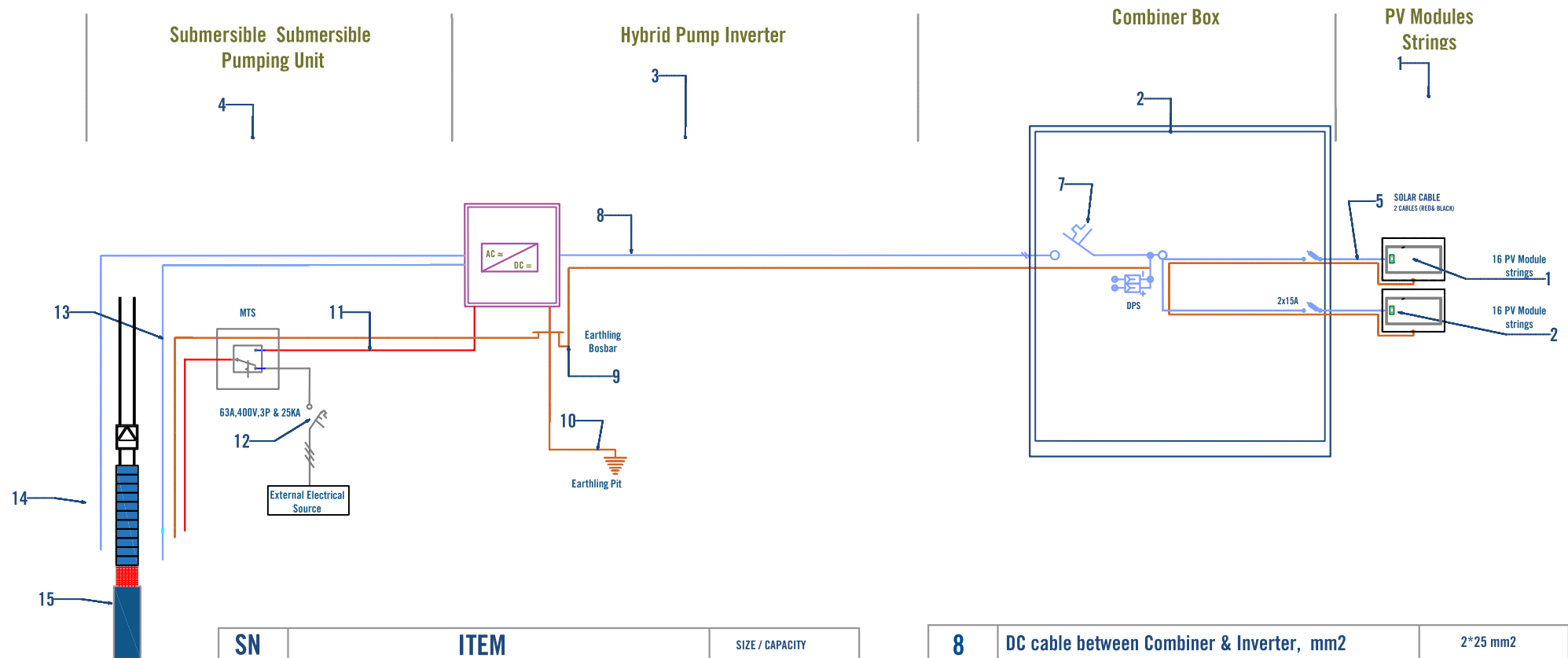
As Shown

North:



Drawing No:

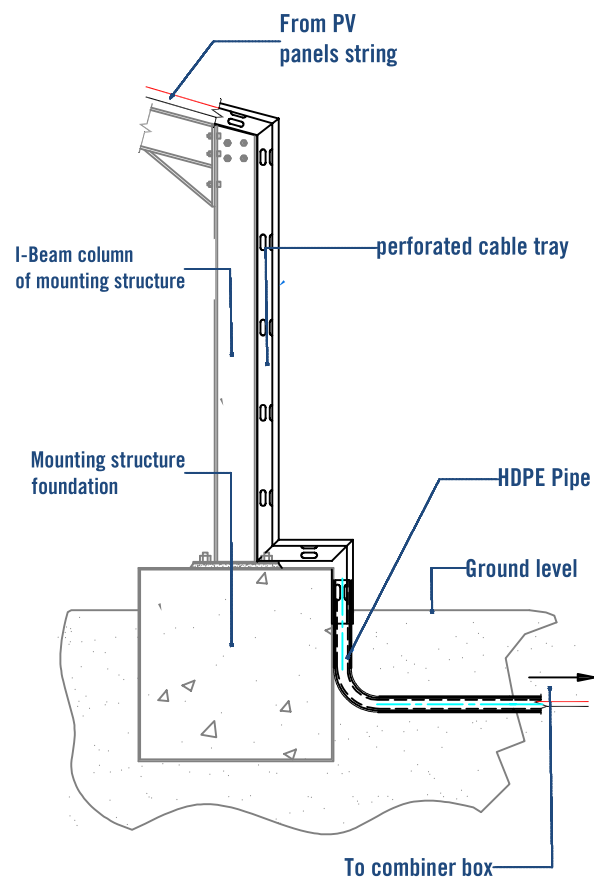
A1-10



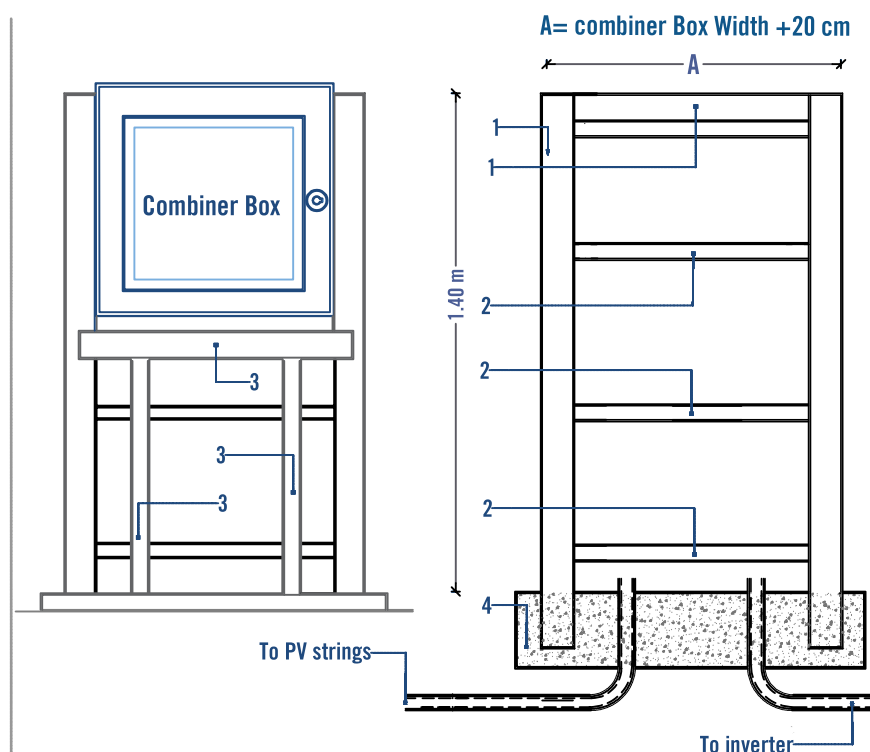
SN	ITEM	SIZE / CAPACITY
1	# of PV Strings and Total Modules	2 strips >= 16.0 kW
2	Combiner Box	>= 60 A
3	Inverter Power, KW	>= 15 kW
4	Submersible Pump Power , KW	>= 7.2 kW
5	DC cable Between Arrays to Combiner Box, mm2	>=2*10 mm2
6	Earthing Cable between PV modules, , mm2	10 mm2
7	Combiner DC circuit breaker size	As BOQ

Notes:

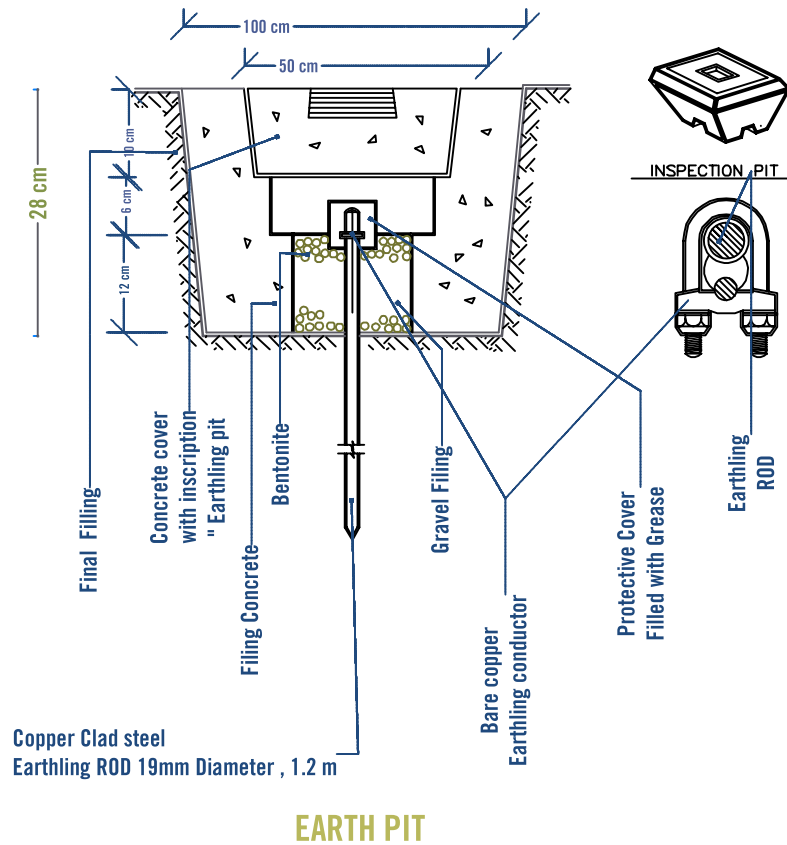
1. C channel 80x40 x 5mm
2. Angle 50x50x4mm
3. Cable Tray size will be according to the number of cables x 1.5 for future, shall be bolted on the frame
4. Concrete foundation 30cm depth x30cm width.
5. The Frame shall be welded properly and according to welding best practice
6. The frame shall painted by at least two layers of anti corrosion and synthetic enamel paint



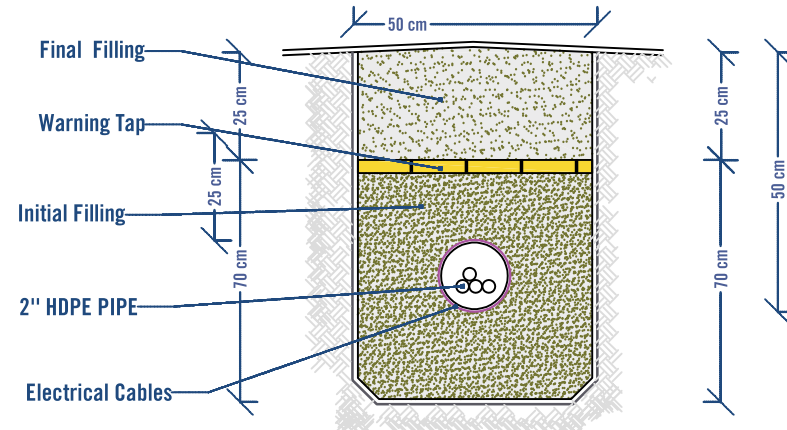
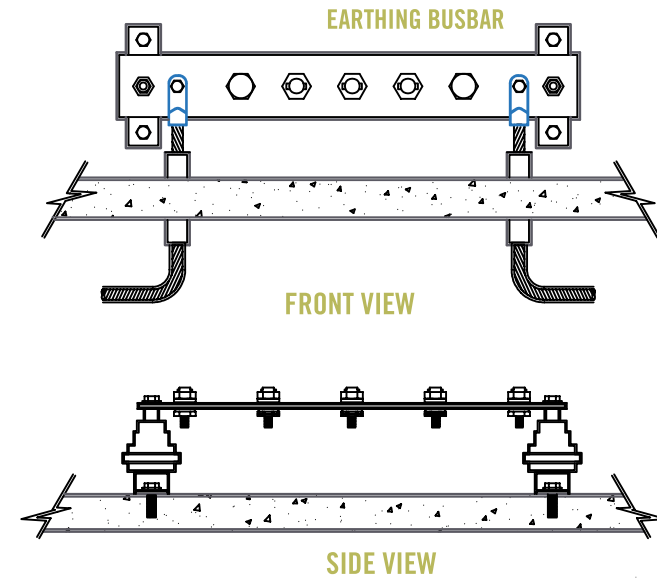
PERFORATED CABLE TRAY TYPICAL INSTALLATION



COMBINER BOX FRAME TYPICAL INSTALLATION



EARTH PIT



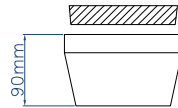
EARTH PIT DETAILS

EARTH PIT DETAILS

Prepared by: Samaritan's Purse® INTERNATIONAL RELIEF	Funded by: Samaritan's Purse® INTERNATIONAL RELIEF	Project Title: REHABILITATIONS OF ALBAQIRIYA WATER PROJECT	Drawing Title:	Designed and reviewed by: SPRY - WASH Sector	Status: Final Draft	North: N W E S	Drawing No: A1-13
		Project Location: MOCHA DISTRICT - TAIZ GOV.	Project Name: RAINS OF RESILIENCE 2024	Approved by: SPRY - WASH Sector	Project No: Date: 15/07/2024	Paper Size: A3 Scale: As Shown	

COPPER ROD

OVERALL
LENGTH
1200 mm.



CONCRETE EARTH HOUSING SECTION

AIR TERMINAL BASE
COPPER CLAMP
25mm COPPER TAPE

AIR ROD
1000mm.
LONG

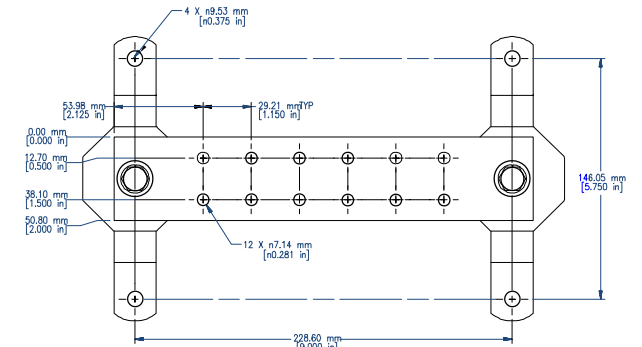
COPPER CLAMP
25mm COPPER TAPE

LIGHTNING PROTECTION POLE
ROUND TAPERED STEEL POLE
GALVANIZED

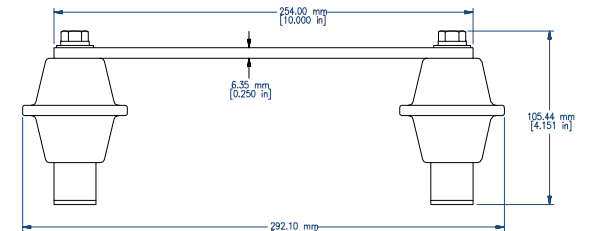
TEST BAR AND LINK

CONCRETE EARTH PIT
GROUND LEVEL
EARTH ROD CLAMP
25 SQ.MM
BARE COPPER
CONCRETE
EARTH PIT
16mmØ EARTH ELECTRODE
RODS OF 1200mm LONG

LIGHTNING PROTECTION SYSTEM



ASSEMBLY - TOP VIEW

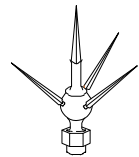


ASSEMBLY - SIDE VIEW

EARTHING BUSBAR

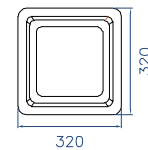
GROUND ROD.

AIR TERMINAL TIP



5sq.mm BARE COPPER EARTH
12-16mmØ COPPER
RODS OF 1200mm LONG

ELEVATION

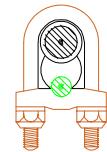


CONCRETE EARTH HOUSING PLAN

AIR
TERMINAL



AIR TERMINAL SADDL



CLAMP

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

LIGHTNING PROTECTION SYSTEM

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: A3

Scale

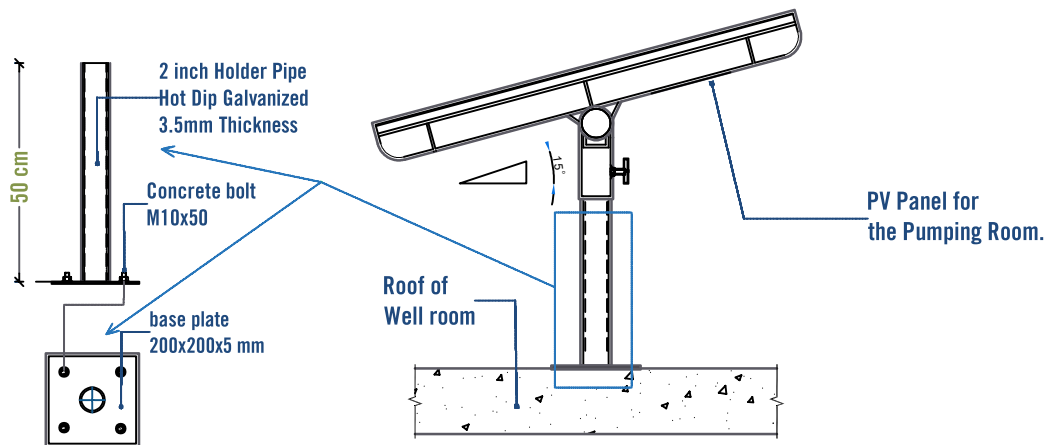
As Shown

North:

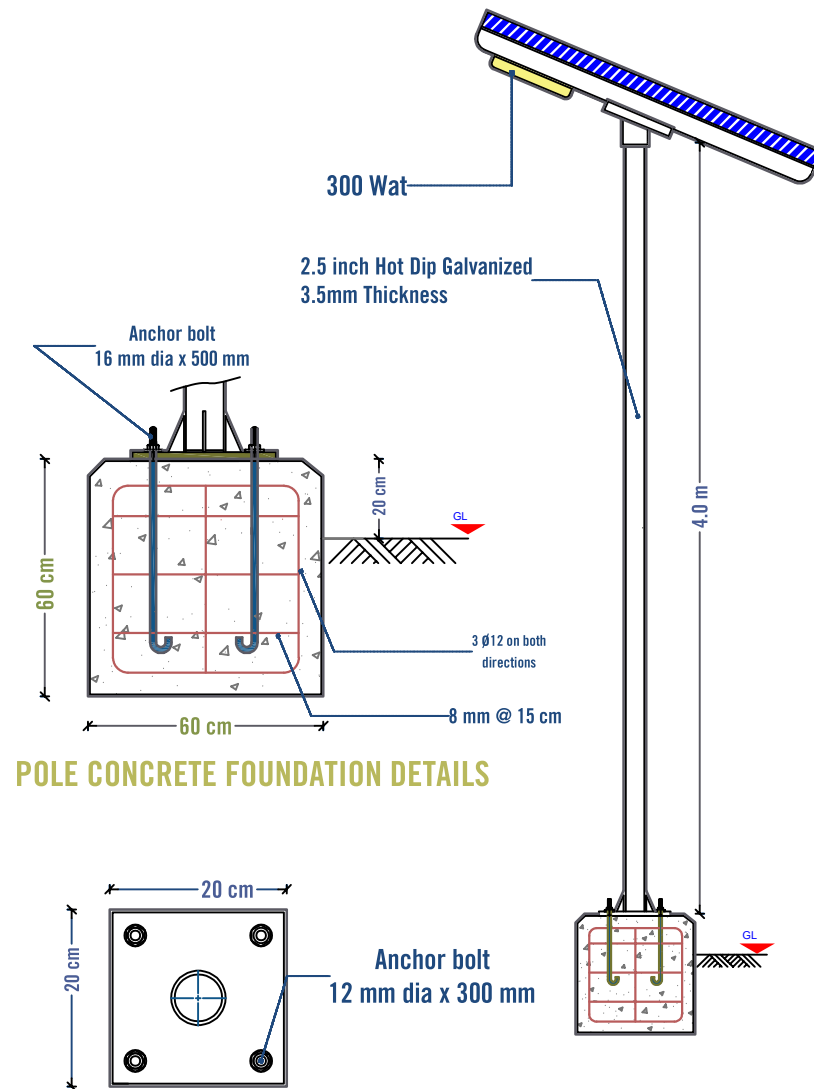
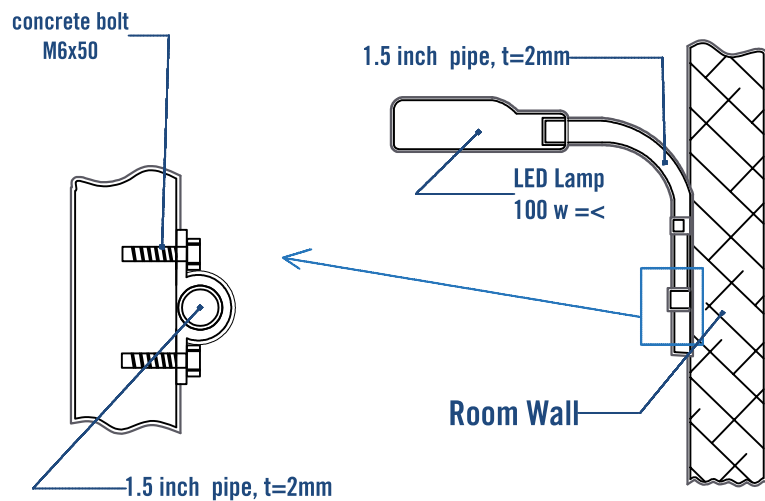


Drawing No:

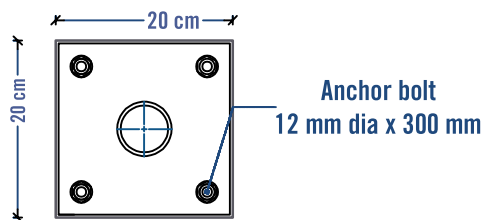
A1-14



PV PANEL OF ROOM LIGHTING TYPICAL INSTALLATION



POLE CONCRETE FOUNDATION DETAILS



BASE PLATE DETAIL

DETAIL - B

Prepared
by:



Funded
by:



Project Title:
REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT
Project Location:
MOCHA DISTRICT - TAIZ GOV.

Drawing Title:
SITE LIGHTING DETAILS
Project Name:
RAINS OF RESILIENCE 2024

Designed and reviewed by:
SPRY - WASH Sector
Approved by:
SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size:

A3

Scale

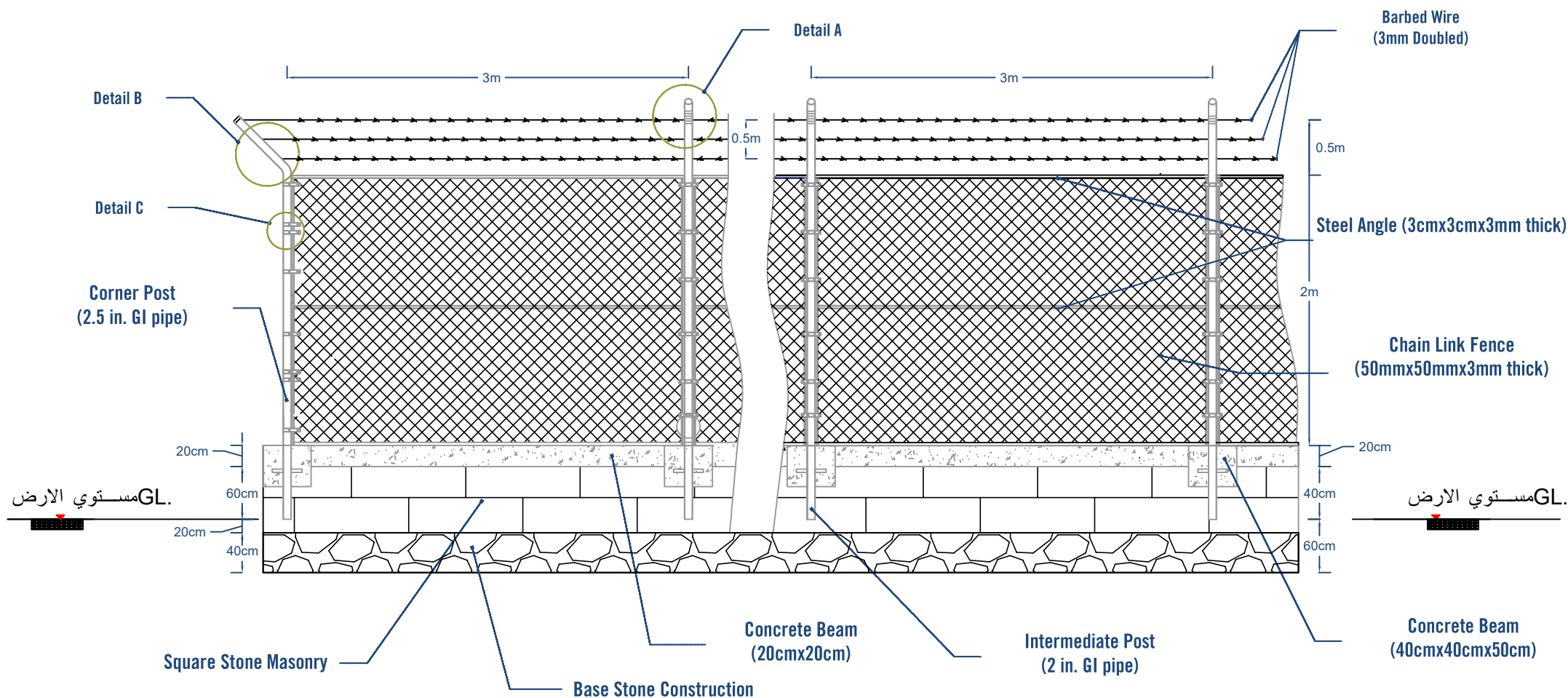
As Shown

North:



Drawing No:

A1-15



Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

PROTECTION FENCE

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size:

A3

Scale

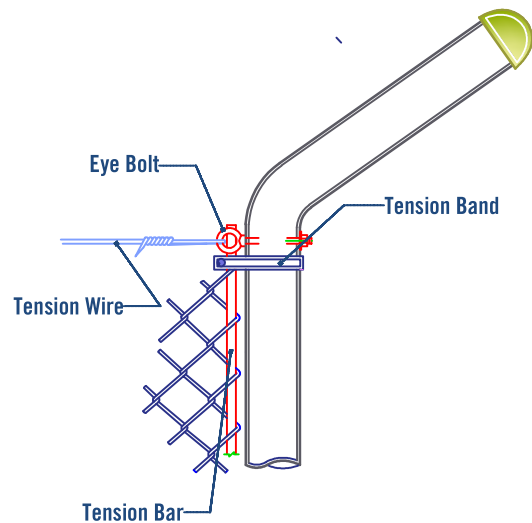
As Shown

North:

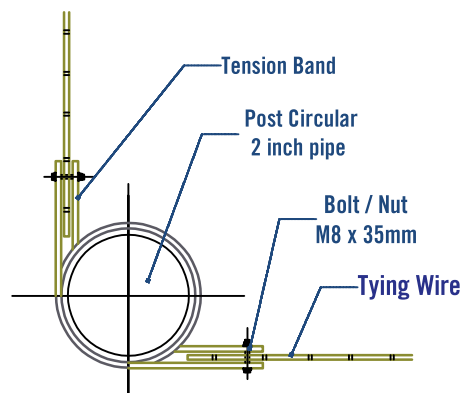


Drawing No:

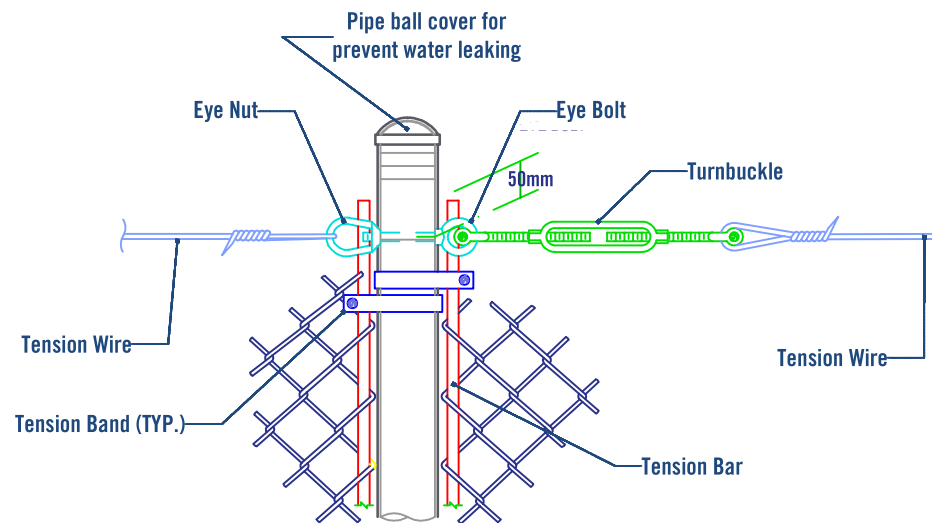
A1-16



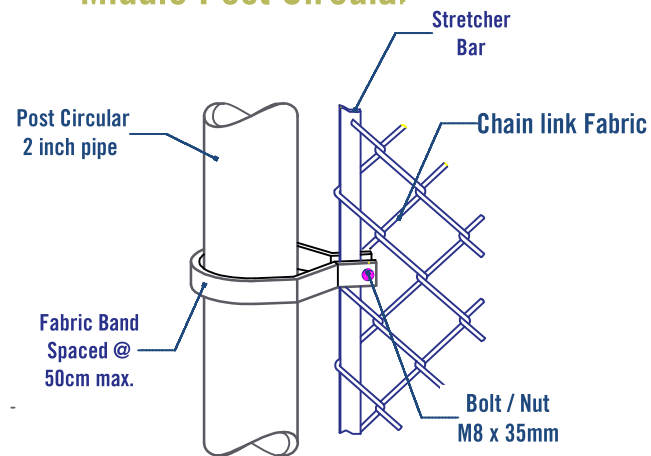
Detail B
Corner Post



Plan view
Corner Post pip tying



Detail A
Middle Post Circular



Detail C
Stretcher Bar

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

PROTECTION FENCE DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: **A3**

Scale

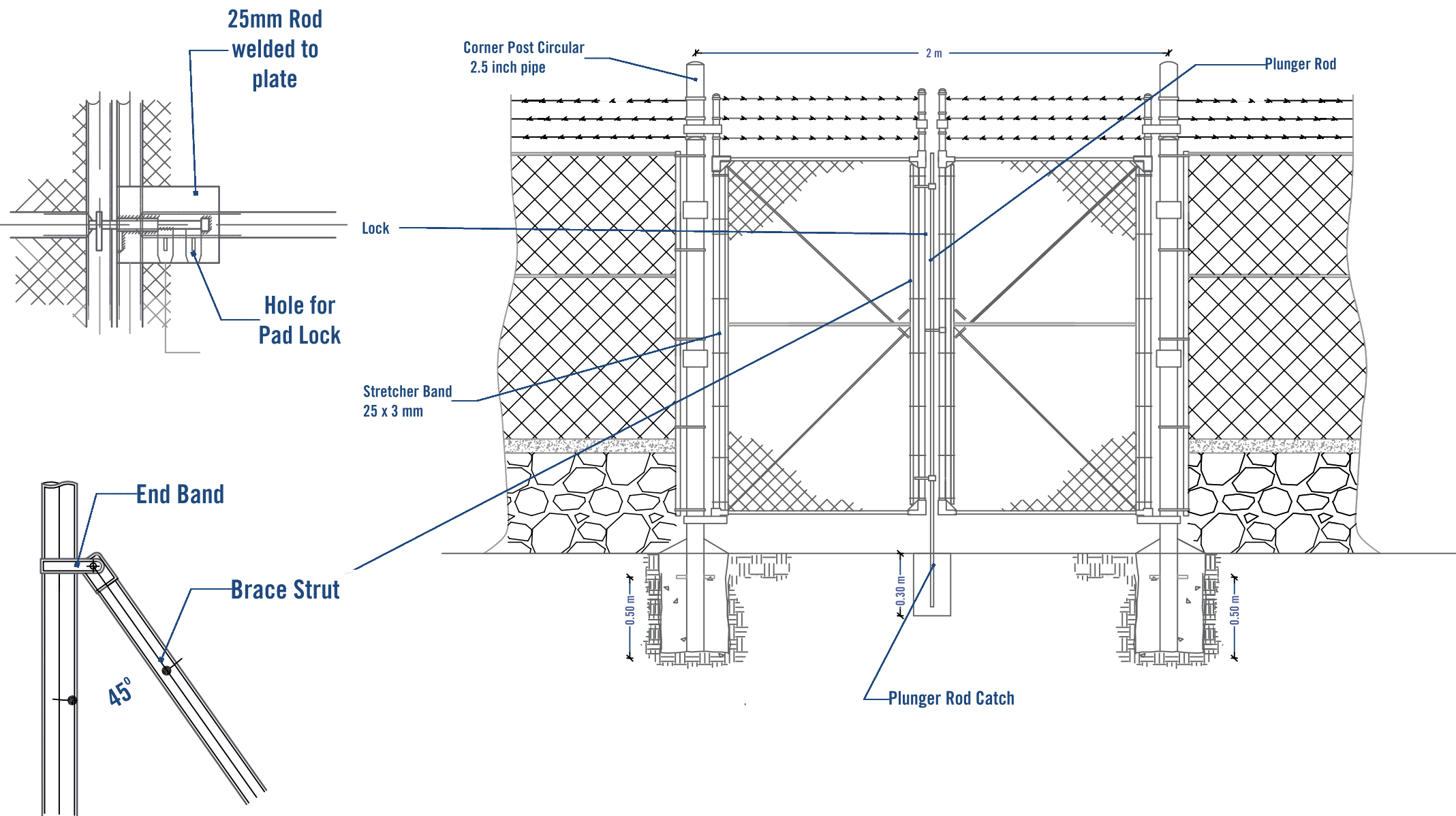
As Shown

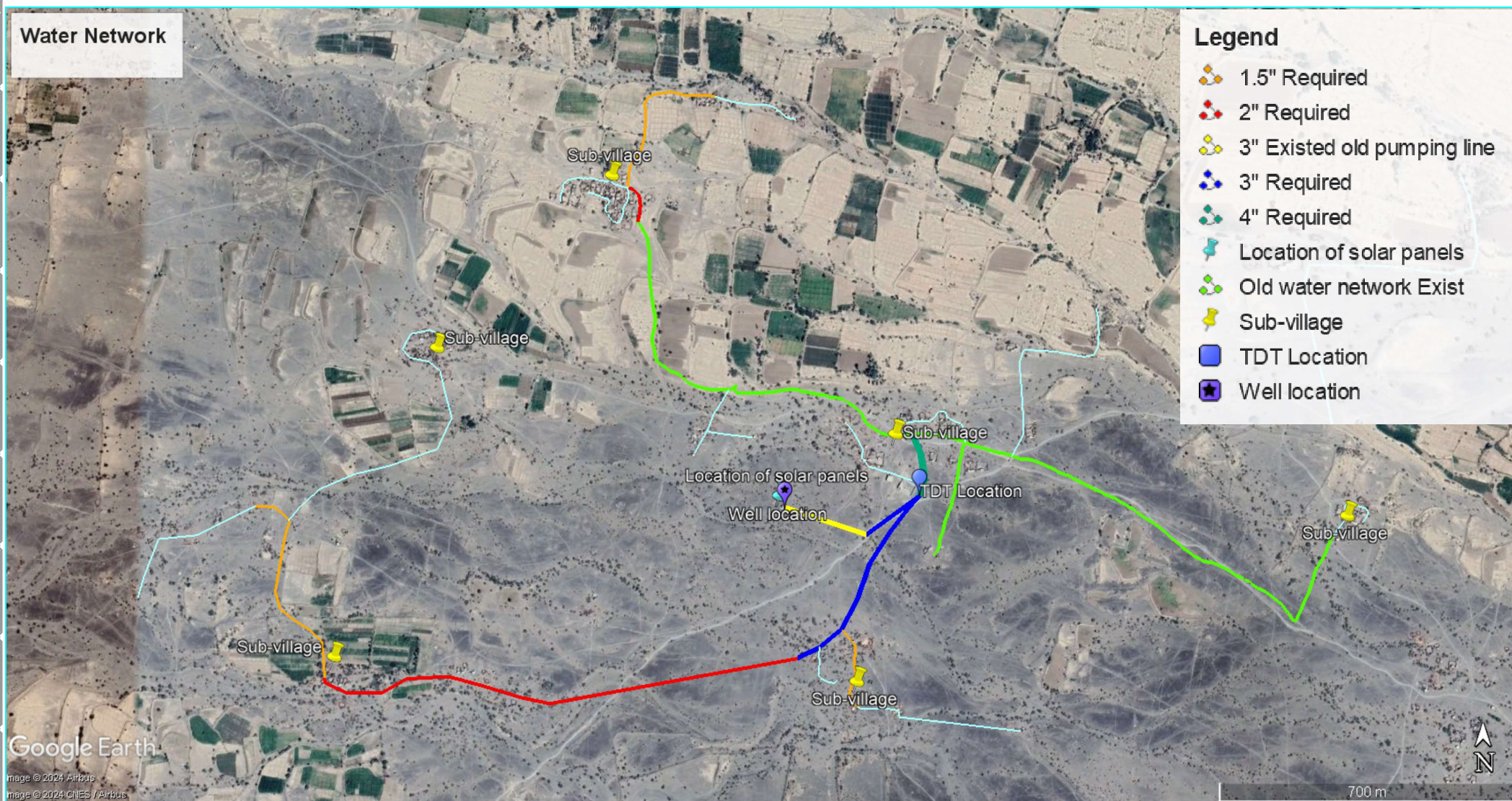
North:



Drawing No:

A1-17





WATER NETWORK PLAN with Map

<p>خط ضخ موجود — Existing pumping line</p> <p>خط إرسالة موجود — Existing water network pipes</p> <p>هنش خط إرسالة جديد 4 — 4 Inch New water network pipes</p>	<p>3 هنش خط إرسالة جديد — 3 Inch New water network pipes</p> <p>2 هنش خط إرسالة جديد — 2 Inch New water network pipes</p> <p>1.5 هنش خط إرسالة جديد — 1.5 Inch New water network pipes</p> <p>1 هنش خط إرسالة جديد — 1 Inch New water network pipes</p>	
--	--	--

Prepared by: 	Funded by: 	Project Title: REHABILITATIONS OF ALBAQIRIYA WATER PROJECT	Drawing Title: WATER NETWORK PLAN	Designed and reviewed by: SPRY - WASH Sector	Status: Final Draft	North: 	Drawing No: A1-19
Project Location: MOCHA DISTRICT - TAIZ GOV.		Project Name: RAINS OF RESILIENCE 2024	Approved by: SPRY - WASH Sector	Project No: Date: 15/07/2024	Paper Size: A3 Scale: As Shown		

الباقريية السفلى
Albaqiriay Asufila

الباقريية العليا
Albaqiriya Oliya

السيد As Saied

As Sahaila
السهيلا

قفانن
Kafanane

الرجيشة Arragaisha

D=1" L=220 m
D=1.5" L=415 m
D=1" L=235 m

Exist pipe
خط موجود 2"
D=1" L=183 m
D=0.75" L=100 m

مصدر الماء البئر
(Borehole) PR
Solar Location
D=3" L=210 m
Exist pipe 3"
خط موجود 3"

D=1" L=220 m
D=1" L=265 m
D=3" L=165 m
D=3" L=320 m

Tower Tank

Exist pipe
خط موجود 2"

D=1" L=185 m

D=2" L=1230 m

D=1" L=128 m

D=1" L=422 m

خط ضخ موجود Existing pumping line
خط إرسالة موجود Existing water network pipes

3 هنش خط إرسالة جديد 3 Inch New water network pipes
2 هنش خط إرسالة جديد 2 Inch New water network pipes
1.5 هنش خط إرسالة جديد 1.5 Inch New water network pipes
1 هنش خط إرسالة جديد 1 Inch New water network pipes

Prepared by:
Samaritan's Purse®
INTERNATIONAL RELIEF

Funded by:
Samaritan's Purse®
INTERNATIONAL RELIEF

Project Title:
REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT
Project Location:
MOCHA DISTRICT - TAIZ GOV.

Drawing Title:
WATER NETWORK PLAN
Project Name:
RAINS OF RESILIENCE 2024

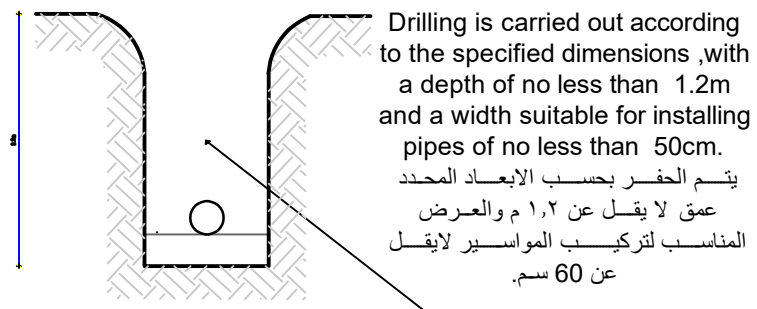
Designed and reviewed by:
SPRY - WASH Sector
Approved by:
SPRY - WASH Sector

Status:
Final Draft
Project No:
Date: 15/07/2024
Paper Size: A3
Scale: As Shown

North:
N
E
S
W

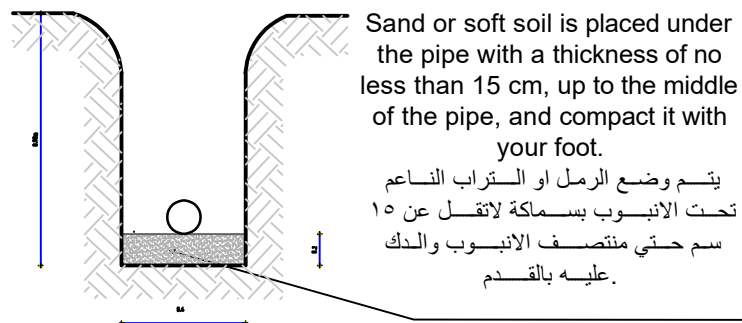
Drawing No:
A1-20

Step 01



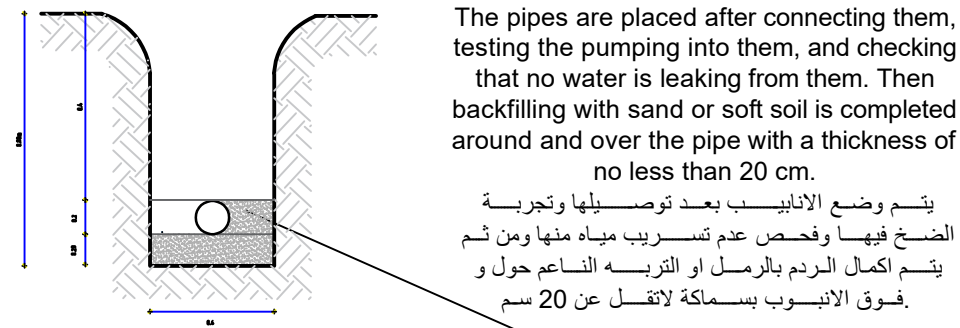
Excavation details
تفاصيل الحفر

Step 02



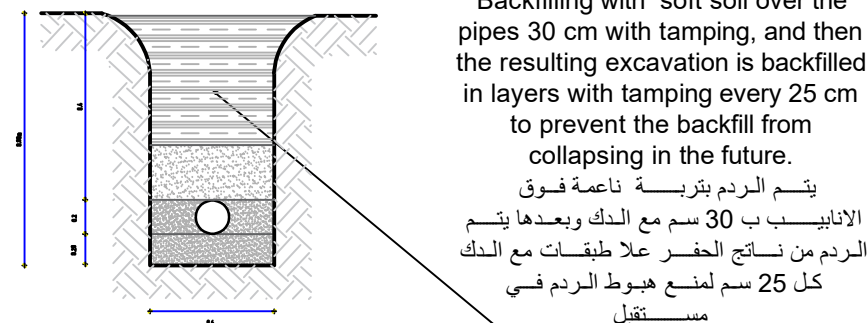
Details for start Installation
تفاصيل بداية التركيب

Step 03



Details Backfilling Around the Pipe
تفاصيل الردم حول الانبوب

Step 04



Details of completing the backfill with tamping
تفاصيل اكمال الردم مع الدك

Details of excavation, backfilling, water network and pumping line installation تفاصيل الحفر والردم وتركيب شبكة التوزيع وخط الضخ

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

EXCAVATION, BACKFILL, WATER NETWORK DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size:

A3

Scale

As Shown

North:



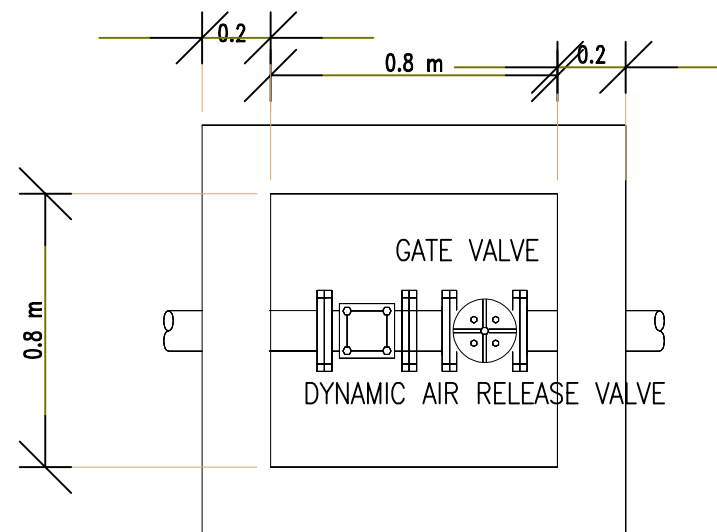
Drawing No:

A1-21

Notes :

Length of the chamber will be adjusted according to the dimensions of the valves , connections and fitting so the valve shall be positioned with enough space for removing and reinstallation during maintenance .

All dimensions in meter.

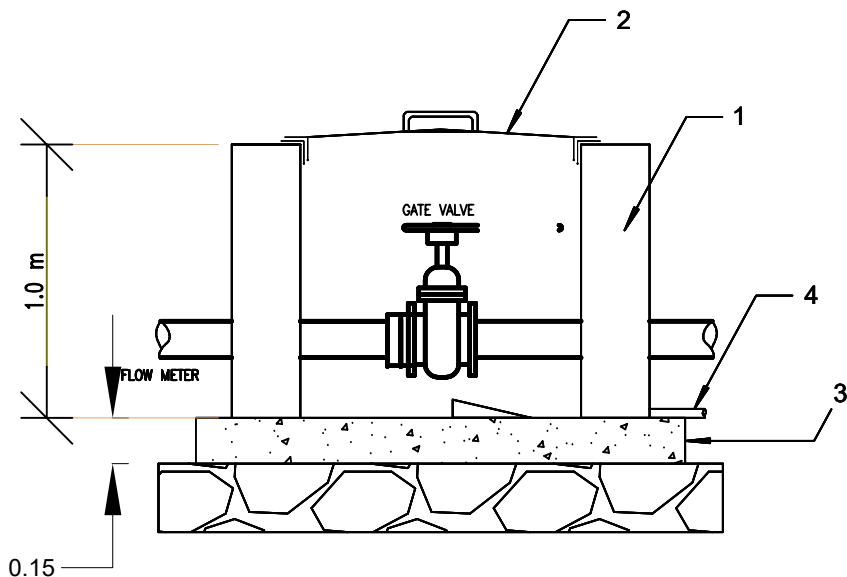


Plan View Scale 1:50

مسقط أفقي

Clarification :

- 1- Buildings of solid cement blocks ,size (20 * 20 * 40)cm.
- 2 -Cover made of granulated and reinforced iron with all mounting accessories from Schellmann tires 1.5 Hinch, 2 mm thick .
- 3 -Ordinary concrete with a mixing ratio of (1:3:5 cement: sand: curry) with a thickness of 15 cm .
- 4 -Water drain pipe 1.5 inch .



Elevation View Scale 1:50

مسقط عرضي

Valve Room Details

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

VALVE ROOM DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size:

A3

Scale

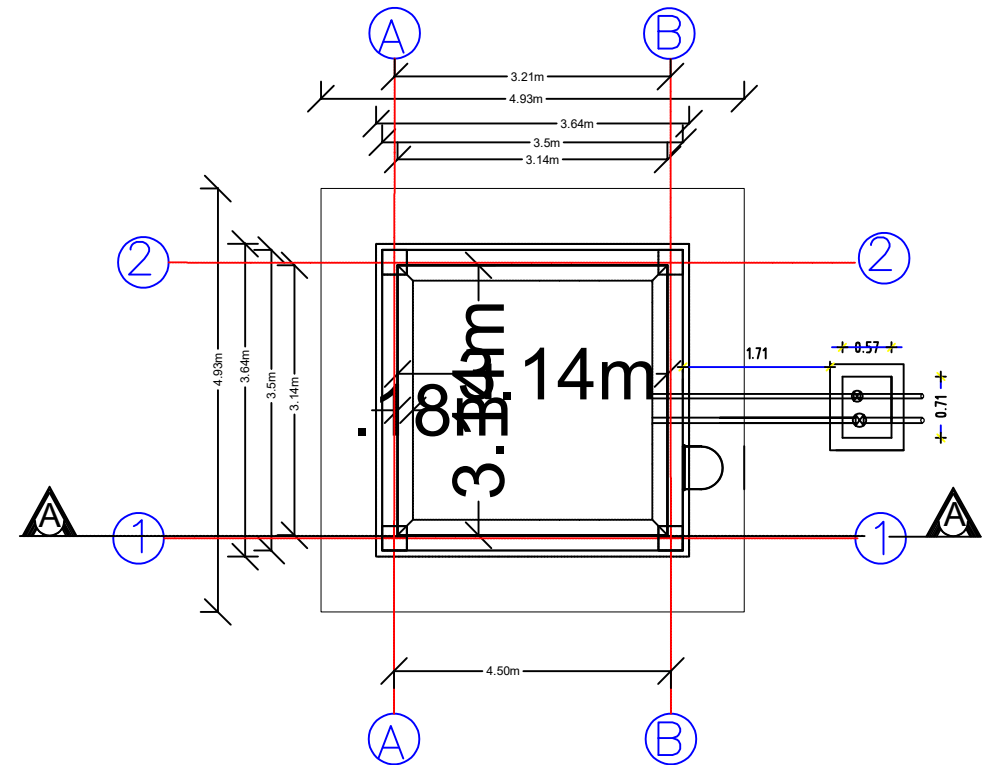
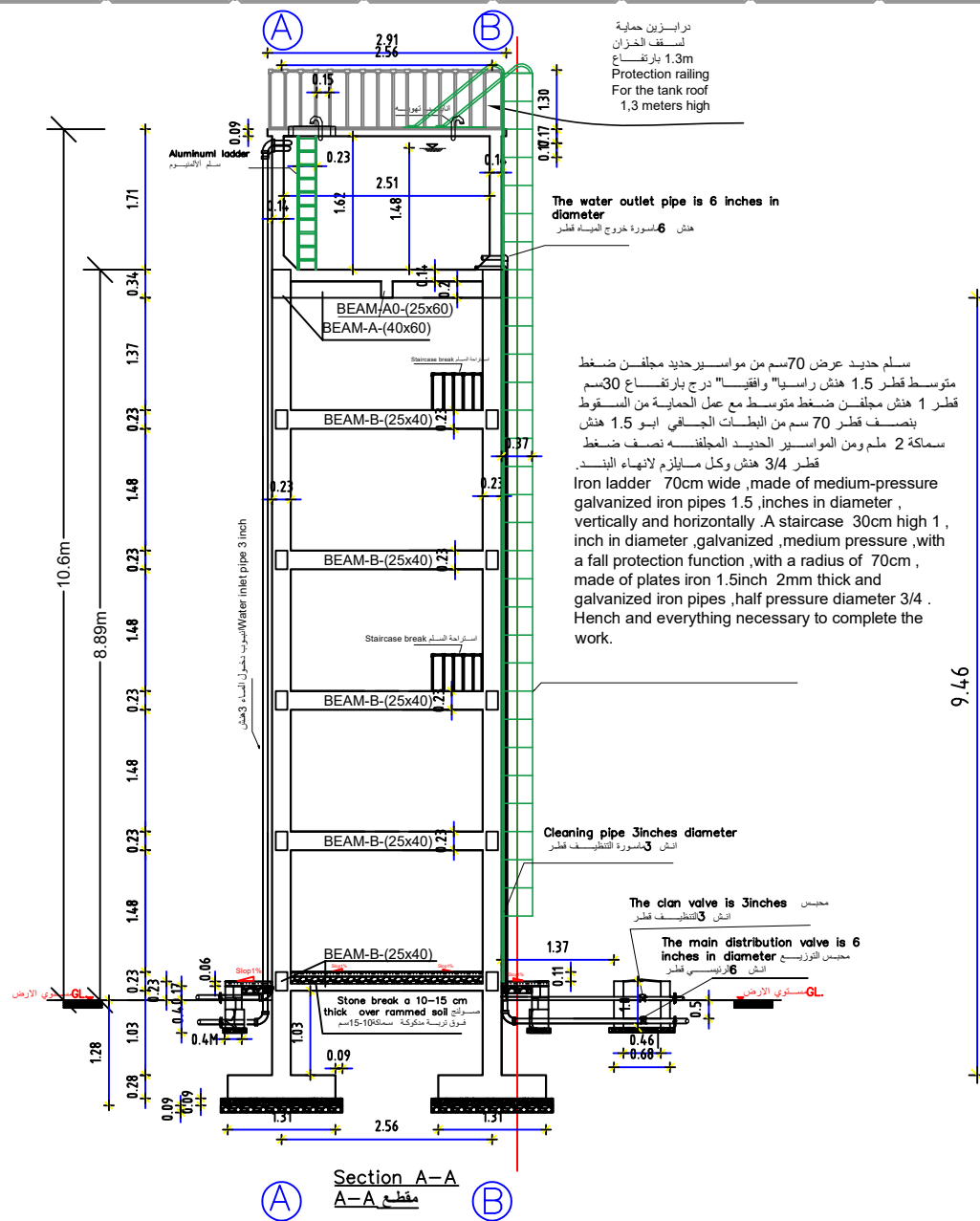
As Shown

North:



Drawing No:

A1-22



Plan Tower Tank 1:100

مسقط افقي للخزان
1:100 البرجي

Tower tank, capacity 50 m³ height 15.5 m
م 15.6 ارتفاع 3 50م خزان برجي سعة

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

TOWER TANK ELEVATION AND PLAN

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: A3

Scale

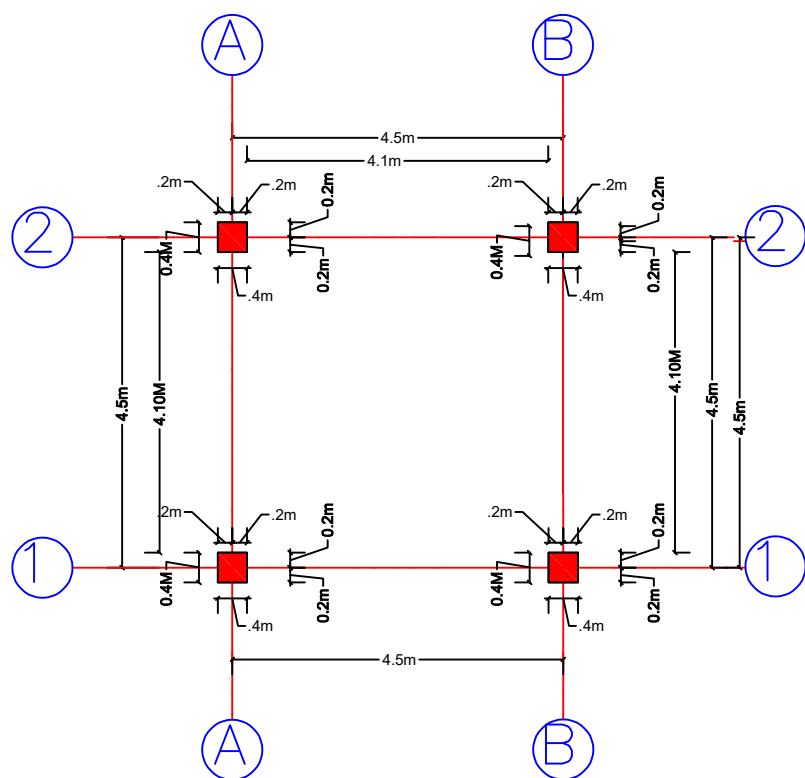
As Shown

North:



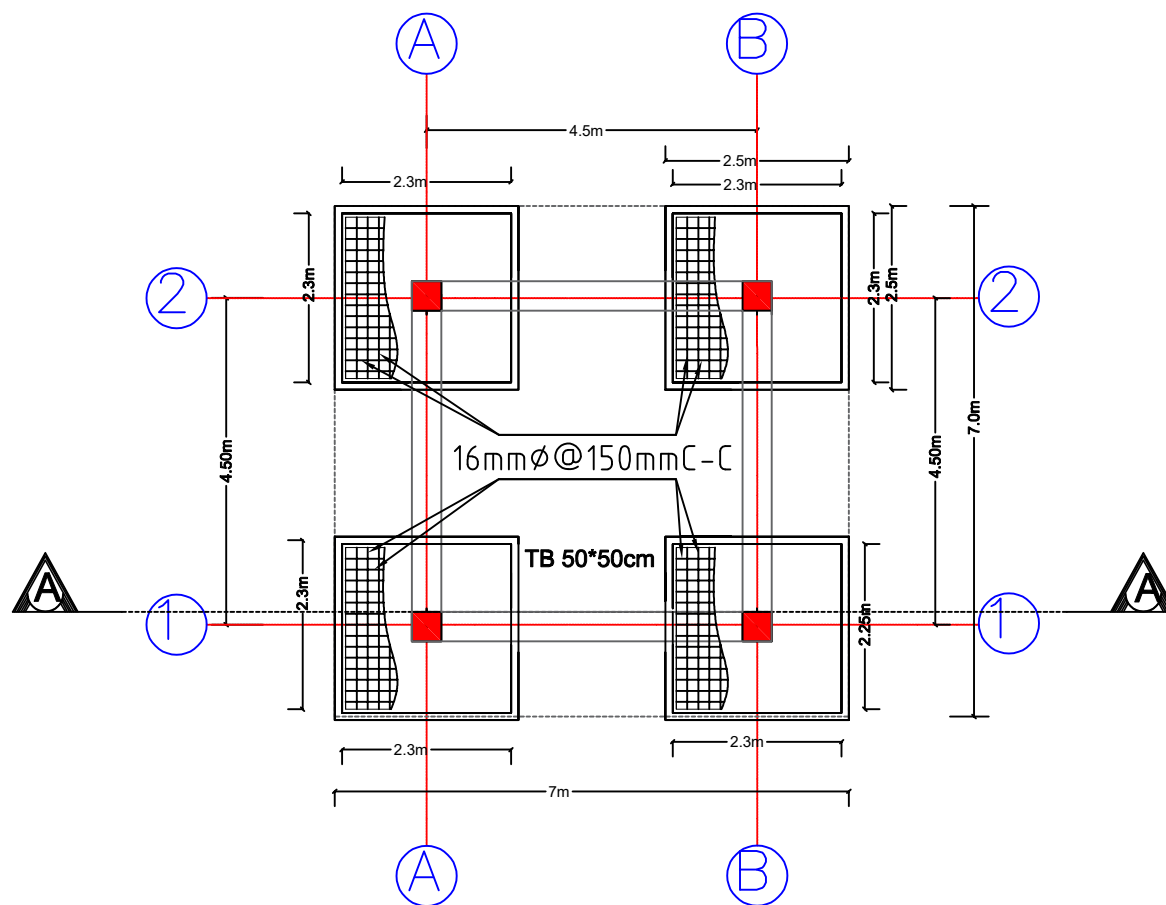
Drawing No:

A1-23



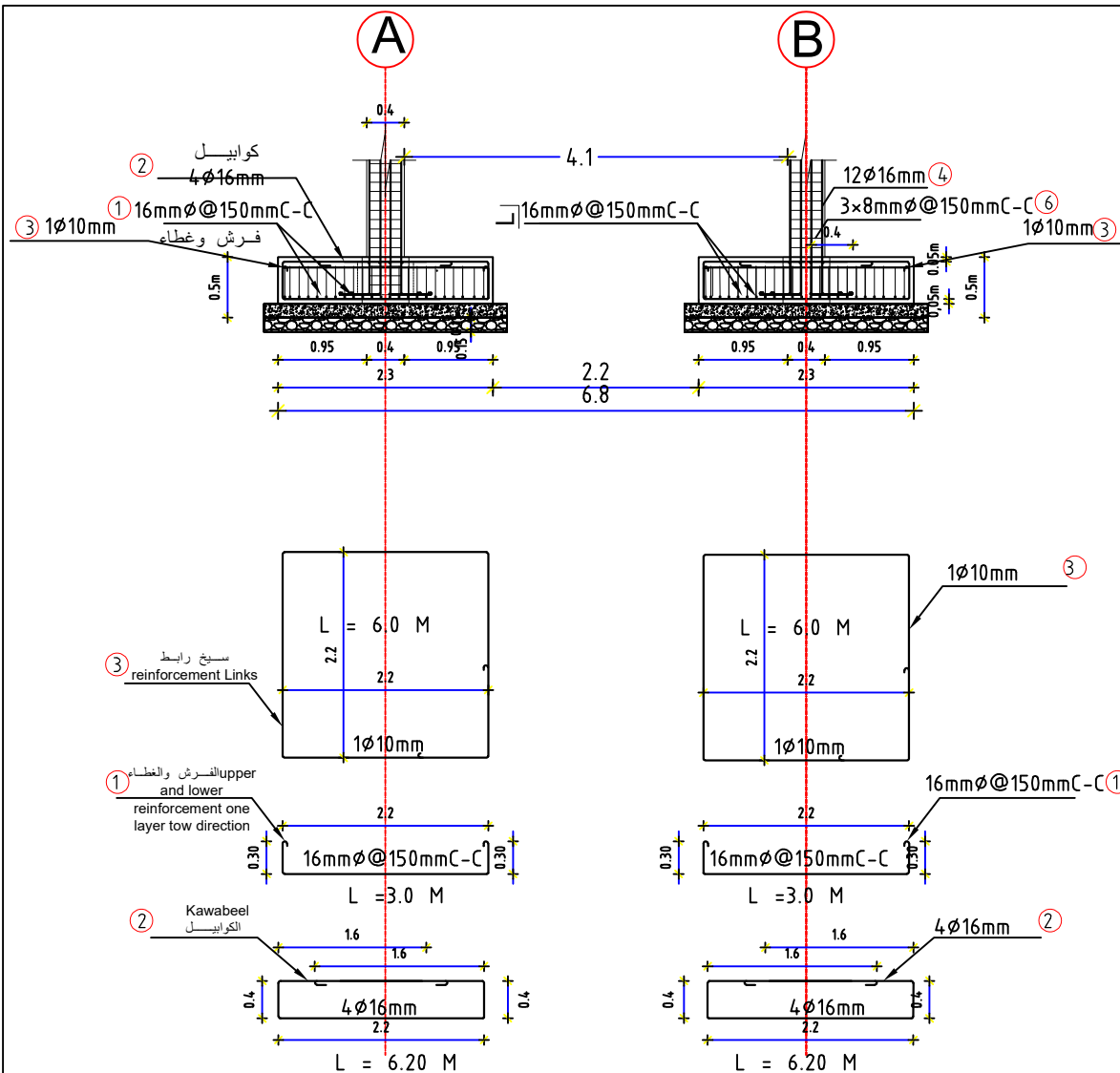
Columns & Axes details

تفاصيل الأعمدة والمحاور

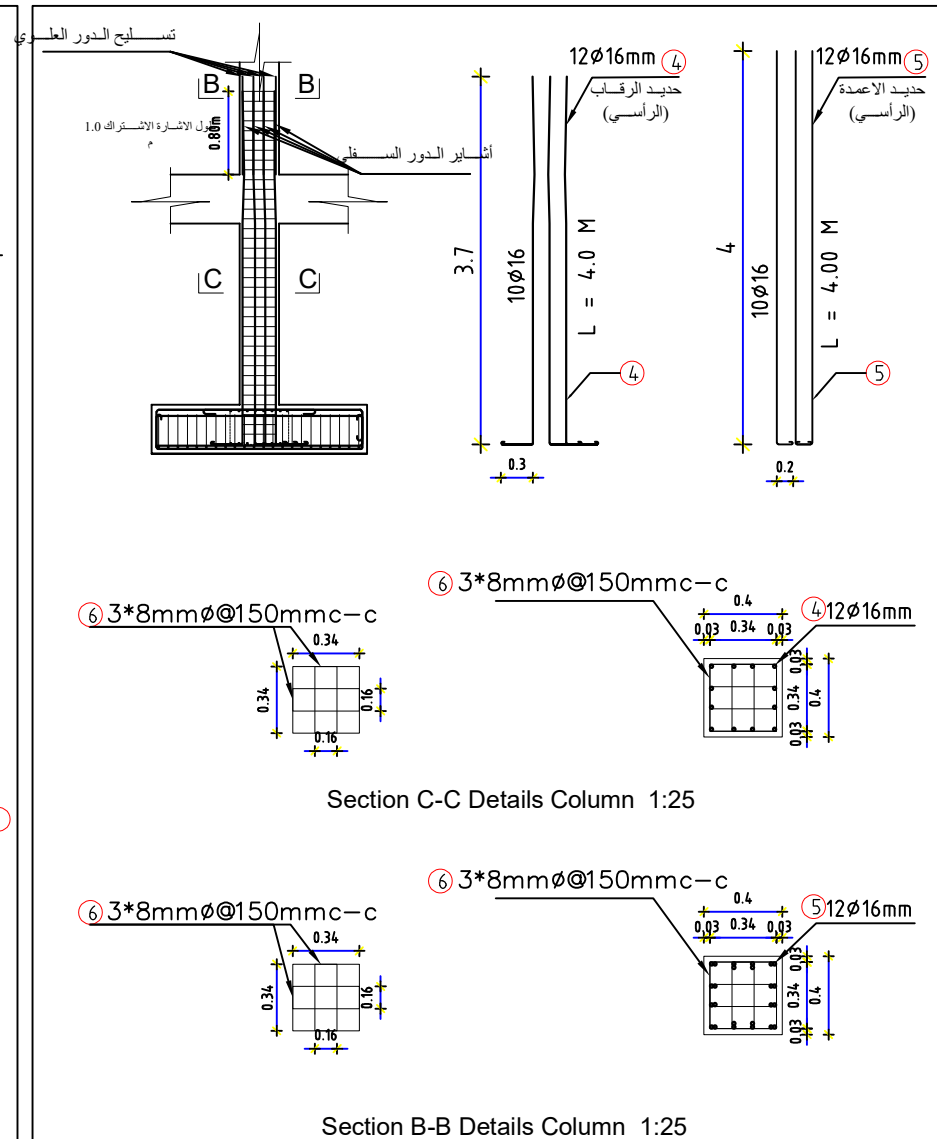


Detailing reinforcement of footing

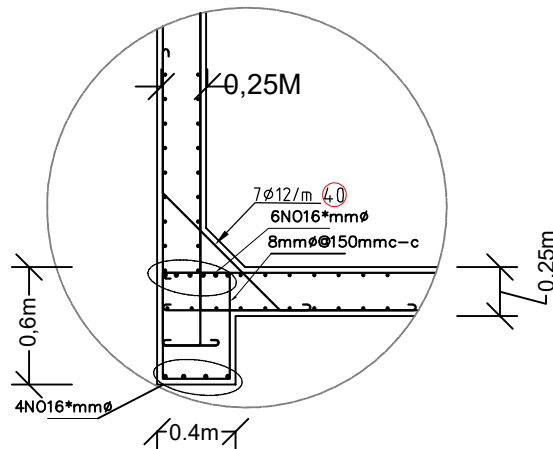
تفصيل تسليح القواعد



Details for reinforcement footings and tensionless
beams Section A-A 1:50
1:50 A-A مقطع القواعد والشدادات

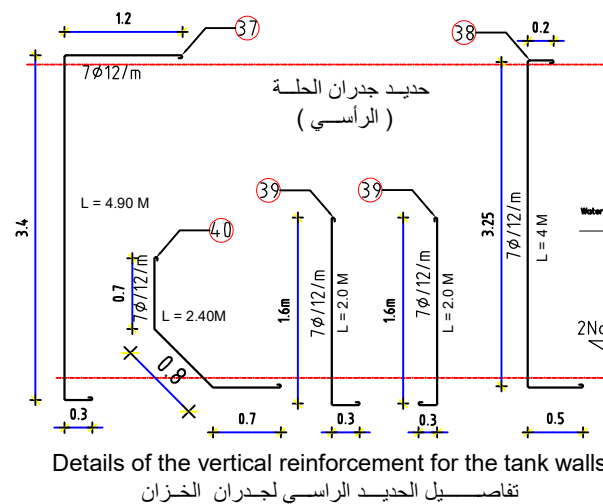


Details reinforcement to necks and columns 1:50
مقطع تفصيلي يوضح حديد الرقاب وحديد الاعمدة 1:50

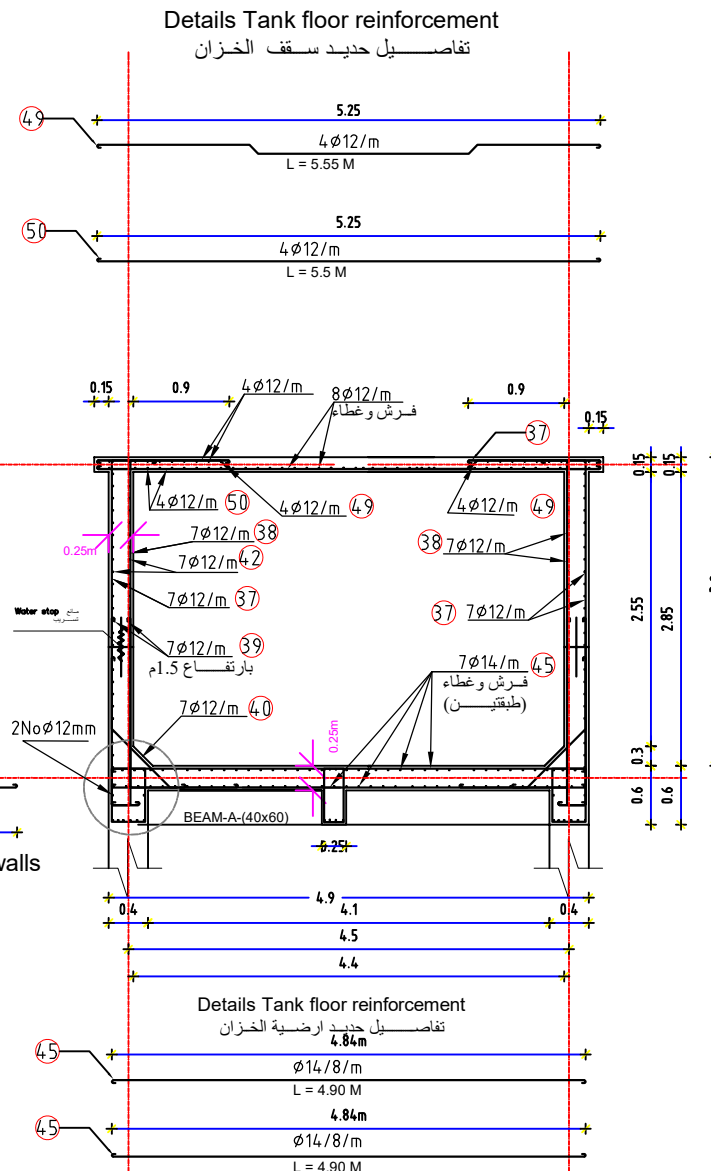


BEAM-A-(40x60) Connection
with walls and floor

1 : 25



Details of the vertical reinforcement for the tank walls
تفاصيل الحديد الراسي لجدران الخزان



Side section for Tank. scale 1:50

مقطع جانبي للخزان 1:50 مقياس

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

TOWER TANK WALL DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: A3

Scale

As Shown

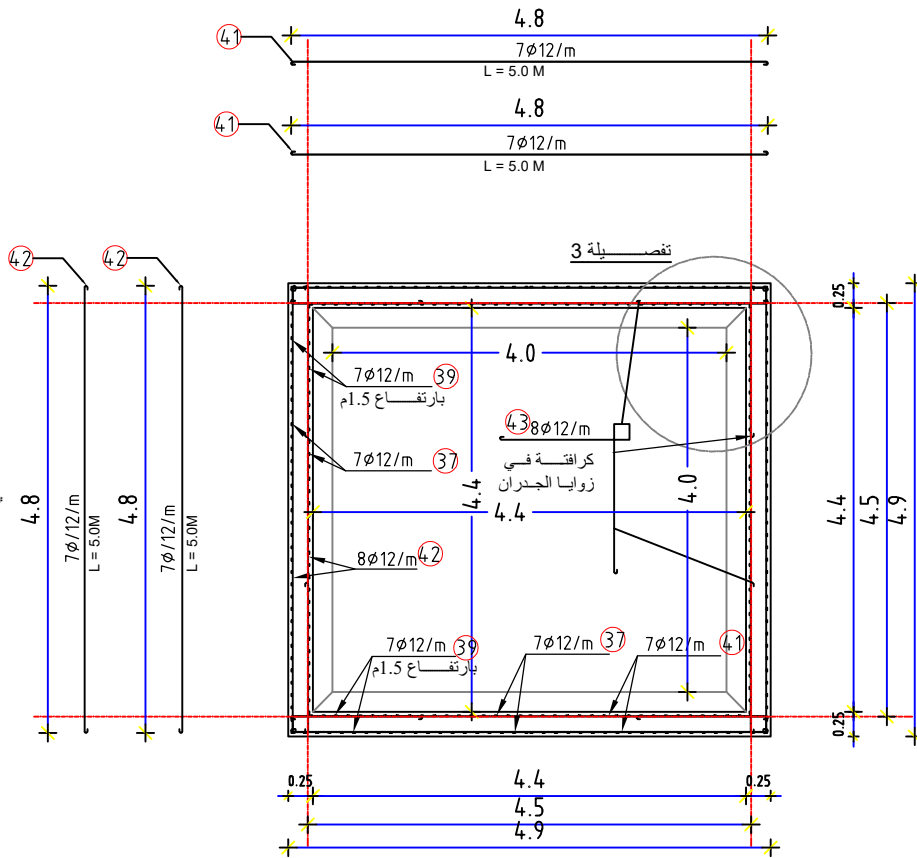
North:



Drawing No:

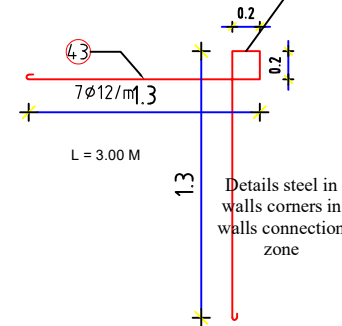
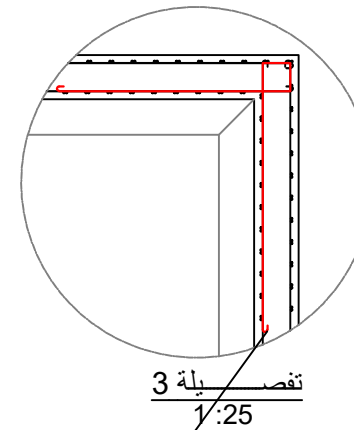
A1-26

Details of the horizontal reinforcement for the tank walls
تفاصيل الحديد الأفقي لجدران الخزان

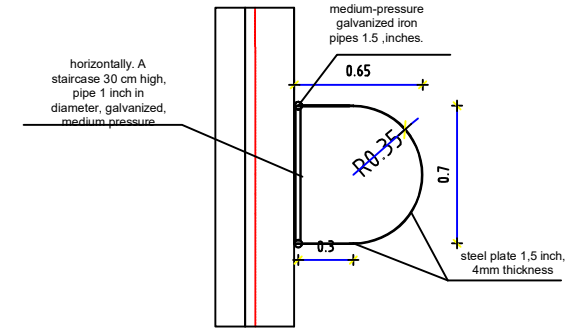


Horizontal section for Tank. scale 1:50

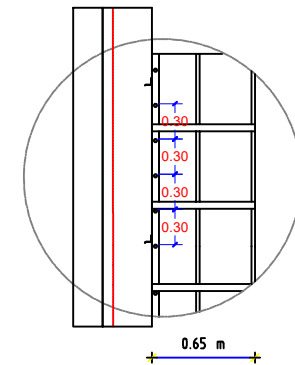
مقطع افقي للخزان 1:50 مقياس



Details steel in walls corners in walls connection zone



Tank ladder plan
مسقط سلم الخزان



Tank ladder plan
مسقط سلم الخزان

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

TOWER TANK WALL DETAILS

Project Name:

RAINS OF RESILIENCE 2024

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

15/07/2024

Paper Size: A3

Scale

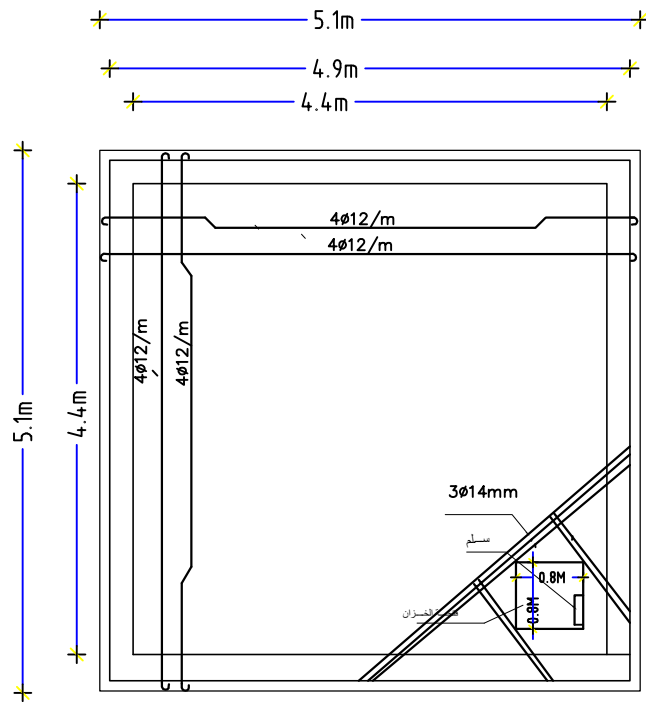
As Shown

North:

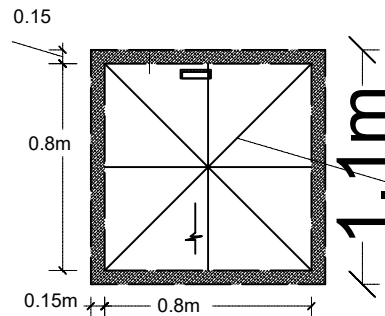


Drawing No:

A1-27

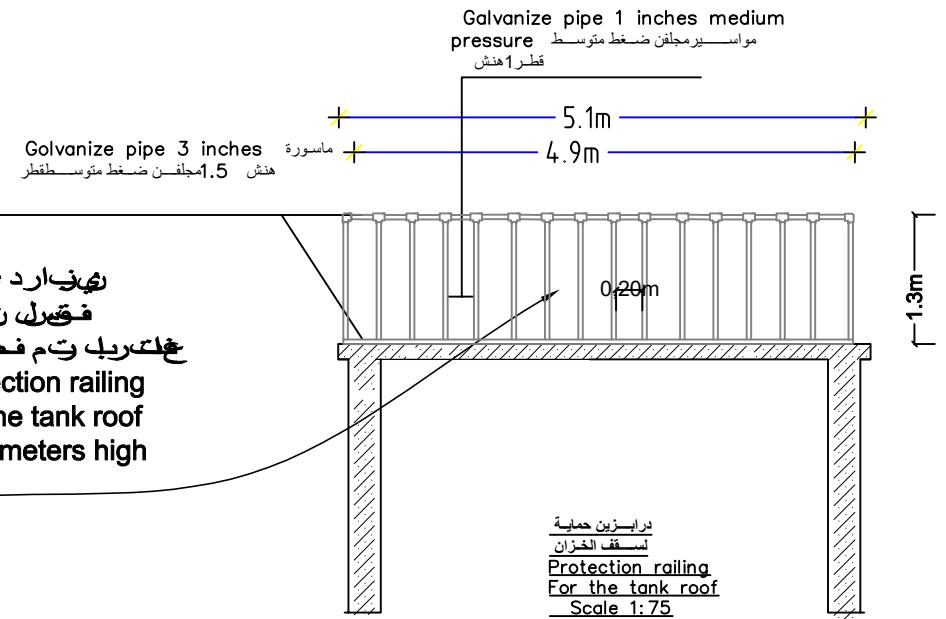


Reinforcement of roof
تفاصيل تسليح حديد سقف الخزان

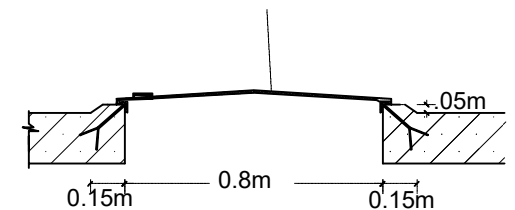


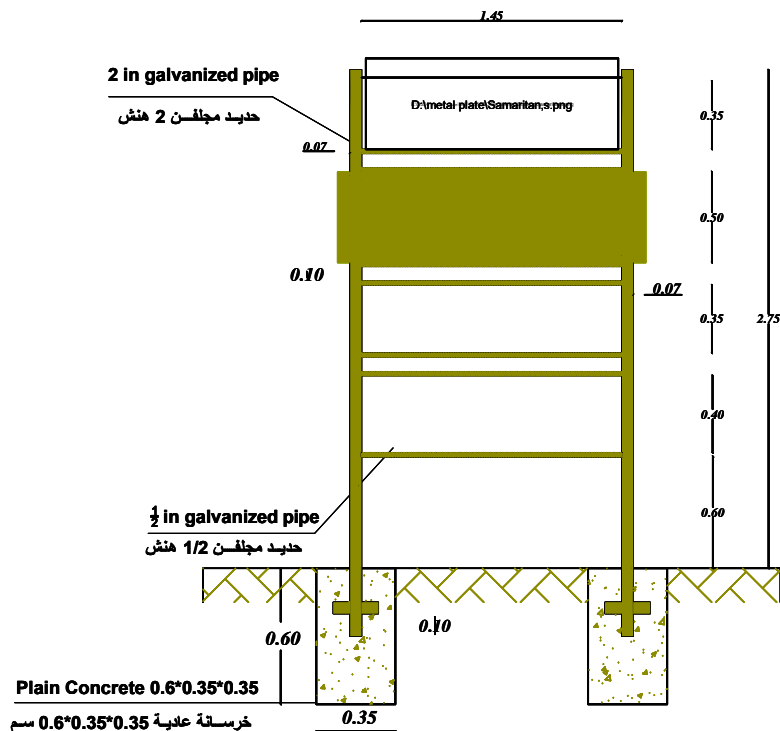
Angle 1.5inches 2 ,mm thick ,plate 2mm thick
اطار شلمان 1.5 هنش سماكة 2
ملم وبتره جافي محبب
ابو 2 ملم

تفاصيل غطاء سقف الخزان
Details Tank roof cover



Angle 1.5inches 2 ,mm thick ,
plate 2mm thick
اطار شلمان 1.5 هنش سماكة 2
ملم وبتره جافي محبب ابو 2 ملم

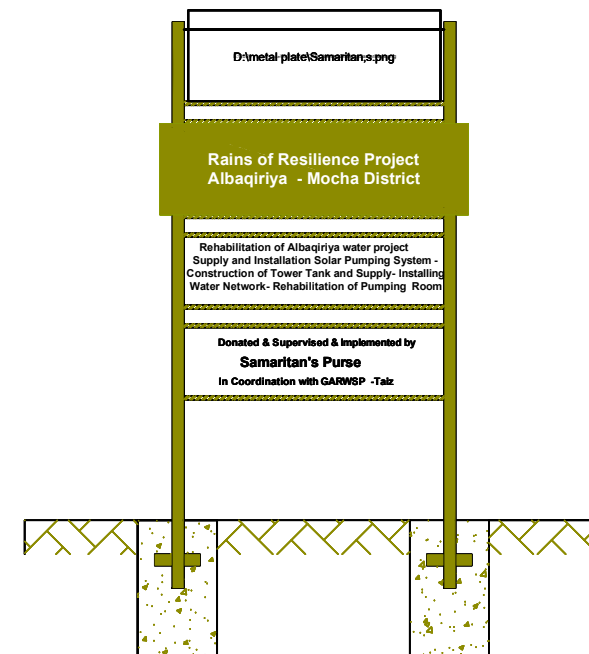




Dimensions Details
تفاصيل الأبعاد



Plate Front side Elevation
واجهة اللوحة الأمامية



Backside Elevation
واجهة اللوحة الخلفية



DETAILS MARBLE PAINTING

تفاصيل اللوحة الرخامية

Note: These are the dimensions of the marble painting requirements. The exact contents and wording of the signage will be determined at a later time.

Prepared
by:

Samaritan's Purse®
INTERNATIONAL RELIEF

Funded
by:


Samaritan's Purse®
INTERNATIONAL RELIEF

Project Title:
REHABILITATIONS OF
ALBAQIRIYA WATER PROJECT
Project Location:
MOCHA DISTRICT - TAIZ GOV.

Drawing Title:
PAINTED SIGN FOR PROJECT COMPLETION
Project Name:
RAINS OF RESILIENCE 2024

Designed and reviewed by:
SPRY - WASH Sector
Approved by:
SPRY - WASH Sector

Status:
Final Draft
Project No:
Date
Paper Size: A3
Scale
As Shown

North:


Drawing No:
A1-31