

DESIGNS AND DRAWINGS.

AlJumaa WATER PROJECT — MOCHA
DISTRICT — TAIZ
GOVERNORATE

PROJECT TITLE:

RAINS OF RESILIENCE

DEVELOPED
BY:



FUNDED
BY:



REHABILITATION OF ALJOMA 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
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Prepared by:  Samaritan's Purse® INTERNATIONAL RELIEF	Funded by:  Samaritan's Purse® INTERNATIONAL RELIEF	Project Title:	Drawing Title:	Designed and reviewed by:	Status:			North:	Drawing No: A1-01
		REHABILITATIONS OF ALJUMAA WATER PROJECT	Table of contents	SPRY - WASH Sector	First Draft				
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	A3		
MOCHA DISTRICT – TAIZ GOV		RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	08/01/2026	Scale	As Shown		

General Notes:

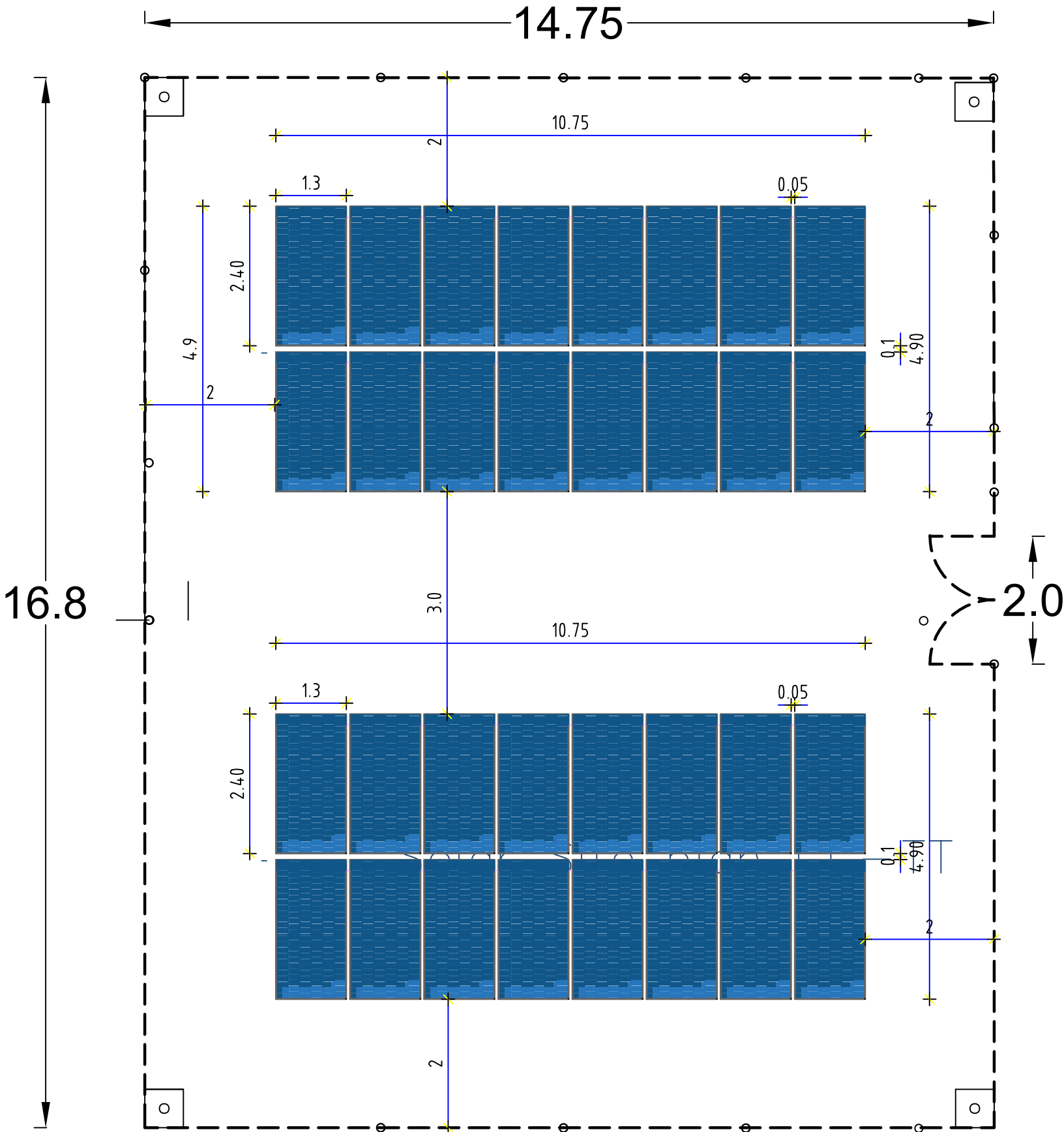
- 1- The concrete cover at the footings is 5 cm
In the beams ,columns ,walls ,floor and roof of the tank 5 cm.
- 2- All concrete work for the footings ,columns ,bridges ,and tank body must be carried out according to the resistance mentioned in the table of quantities and according to the specified mixing 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 280 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.
- 10- The sand (nisse) used in all concrete and cladding works must be first-class crushed stone, number one basalt stone, and not mixed with impurities that absorb water and weaken the strength of the concrete.

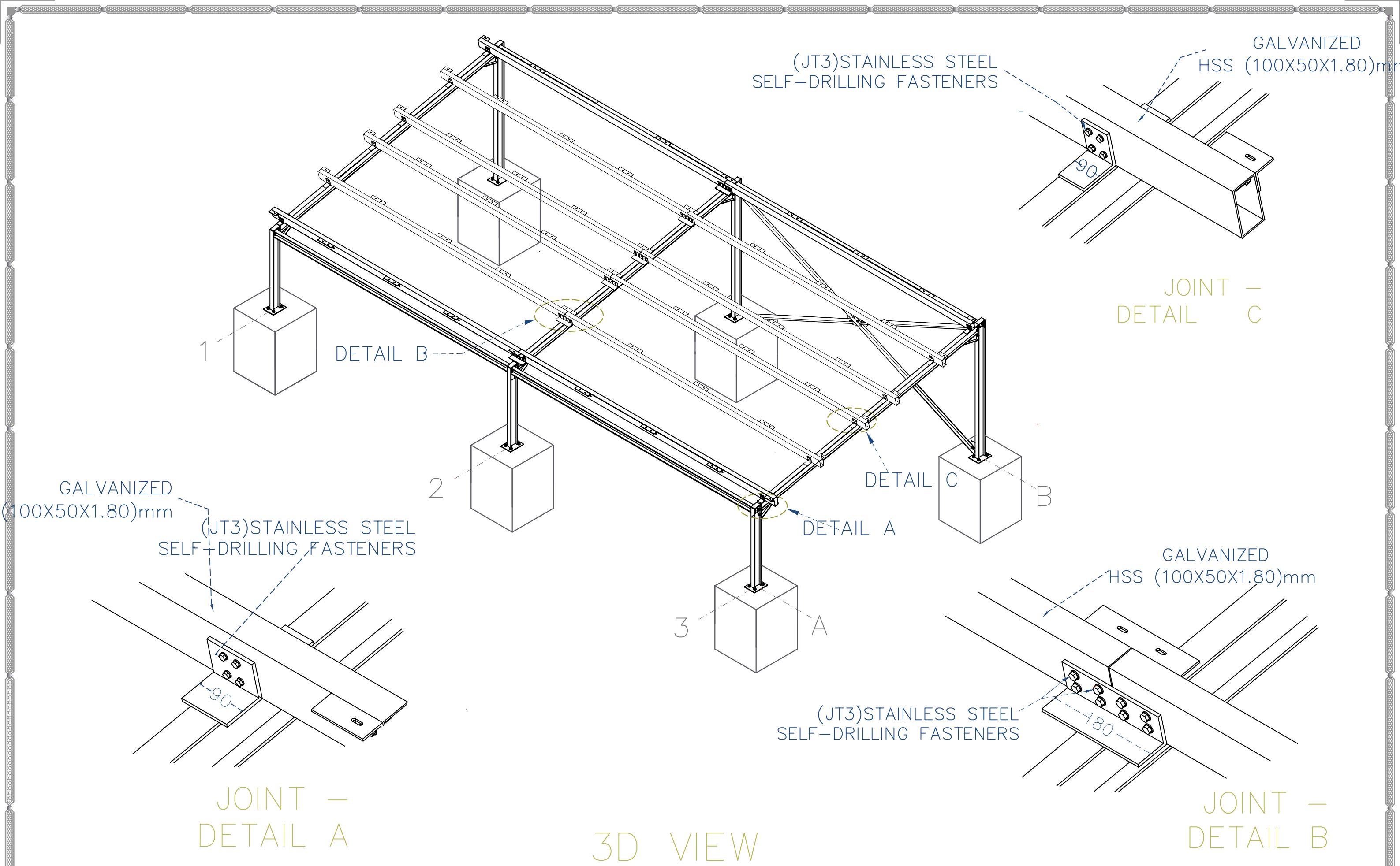
ملاحظات عامة:

- 1- الغطاء الخرسانى فى القواعد 5 سم وفى الجسور والاعمدة وجدران وارضية وسقف الخزان 3 سم.
- 2- يجب تنفيذ جميع اعمال الخرسانات للقواعد والاعمدة والجسور وجسم الخزان بحسب المقاومة المذكوره فى جدول الكميات وبحسب نسب الخلط المحددة وكمية المياه لاتزيد عن 180 لتر/متر مكعب خرسانة ويجب ان تكون المياه غير مالحة ونقية وبمحتوي اسمنتى 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 280 نيوتن/ملم2.
- 4- يجب ان تكون الاختشاب وقوالب الخرسانة التى سيستخدمها المقاول للاعمال الخرسانة نظيفة اوجديدة وغير متهاله.
- 5- يجب الرش وغمر الخرسانة بالمياه النقية طوال اليوم و لمدة لاتقل عن 10ايام الاعمده والجسور المعلقه وجسم الخزان من الخارج يجب عمل لها تكييس باكياس شلته حيش خاصة بعملية الرش ويتم تشبيعتها 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 التخشييه لاستلامها وكذلك من اعمال ،الحديد ولا يتم الصب الا بحضور المهندس ويجب ابلاغه قبل الموعد بيوم واحد.
- 8- يجب تنفيذ جميع الاعمال بحسب ماهو موضح فى بنود جداول الكميات والرسومات.
- 9- طول الاشتراك الحديد الرئيسى للاعمدة بين الادوار لا تقل عن 100 سم.
- 10- الرمل (النيس) المستخدم فى جميع اعمال الخرسانات والتلابيس يلزم ان يكون وهطي درجه اولي والكري كساره رقم واحد من الاحجار البازلتيه و غير مخلوط بالشوائب التى تمتص المياه وتضعف قوة الخرسانه.

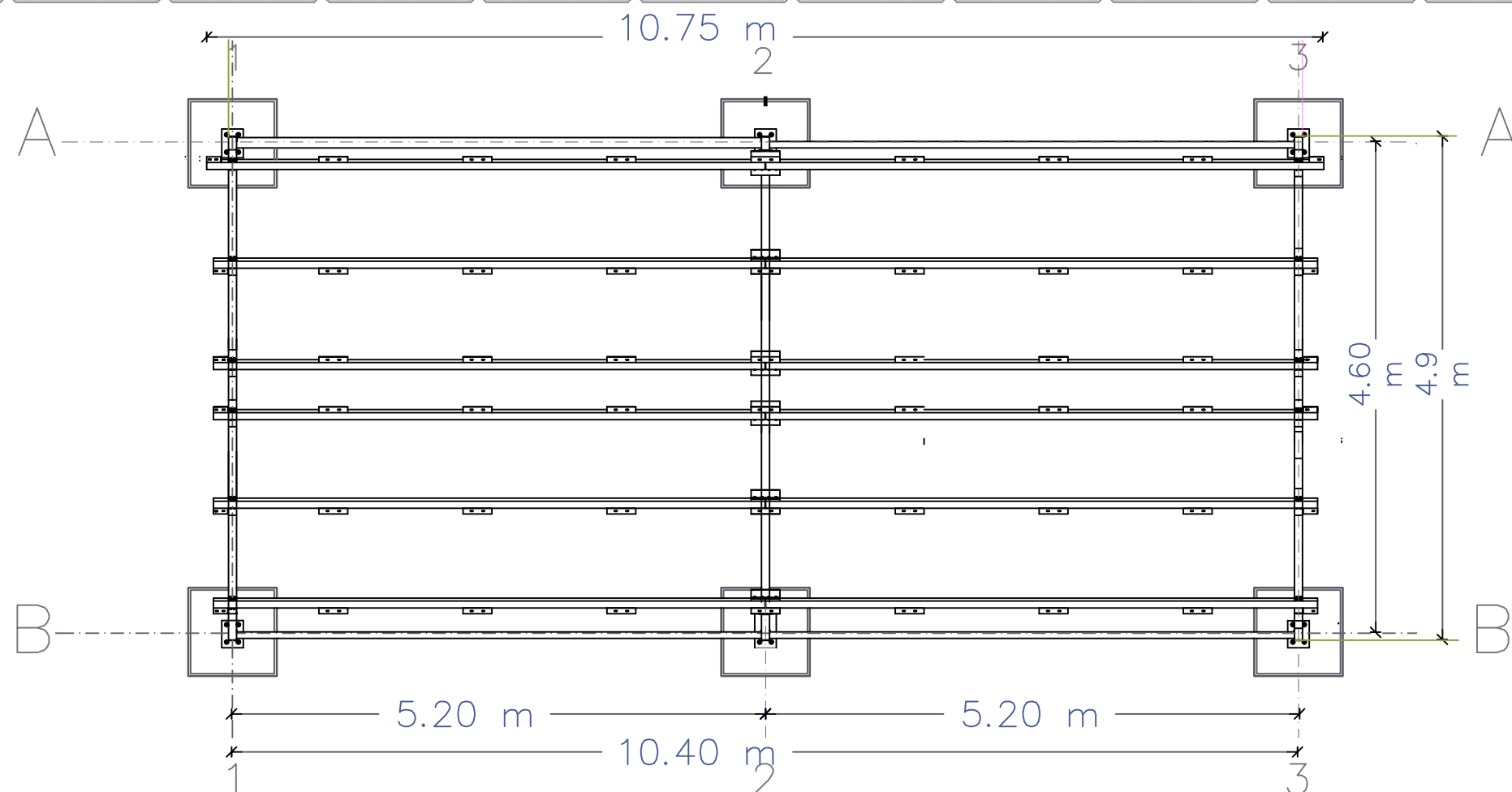
Notes:

- 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).

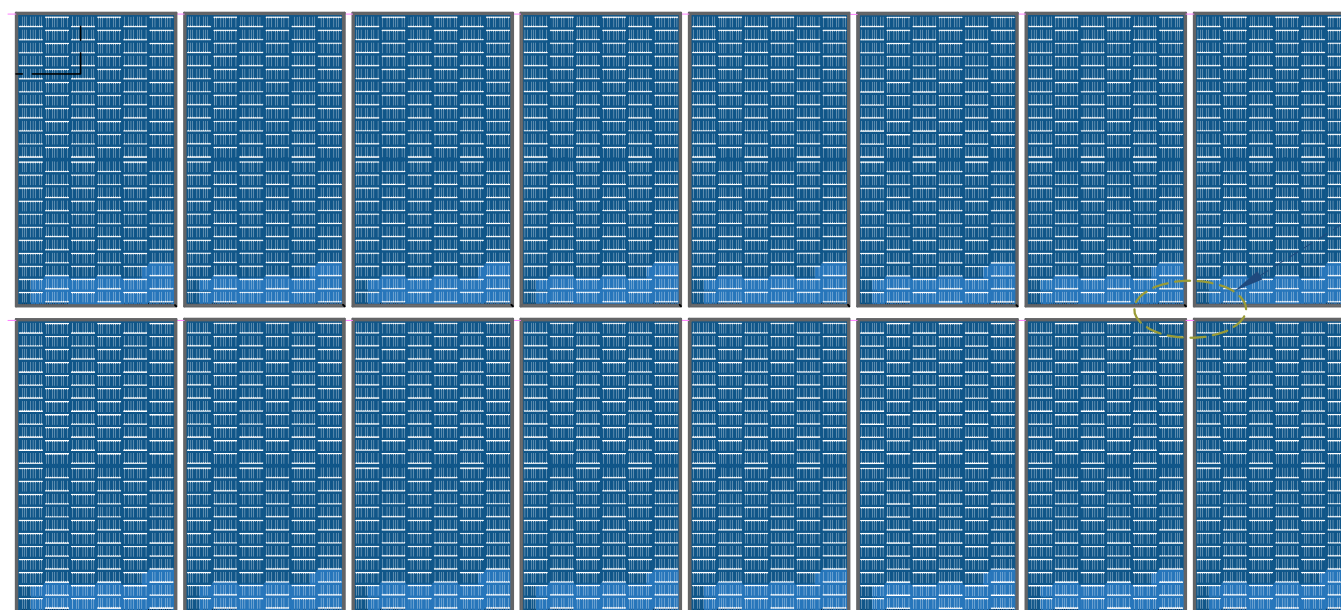




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		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
		TAIZ GOV			08/01/2026	As Shown	



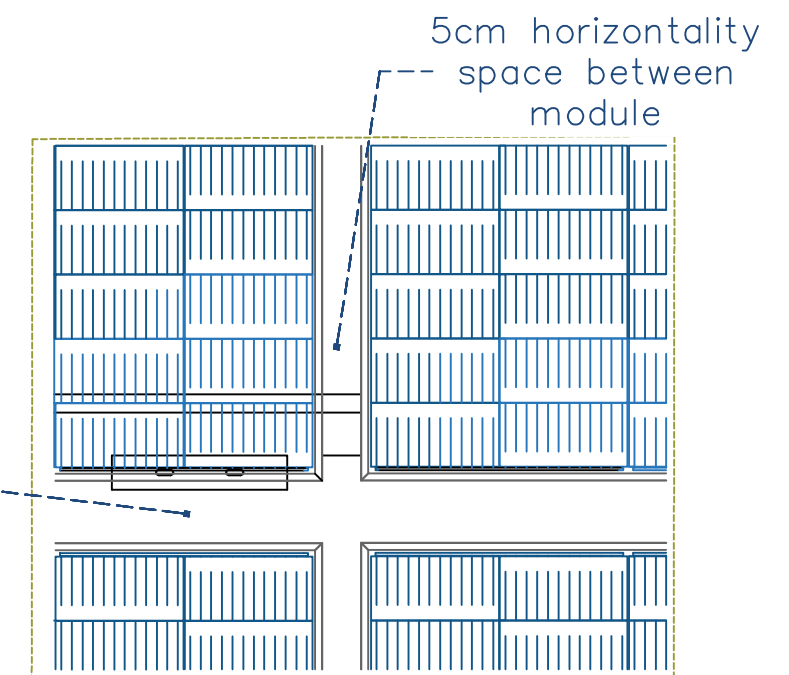
FRAMING PLAN



PLAN OF SOLAR PANEL
ARRAY

DETAIL A

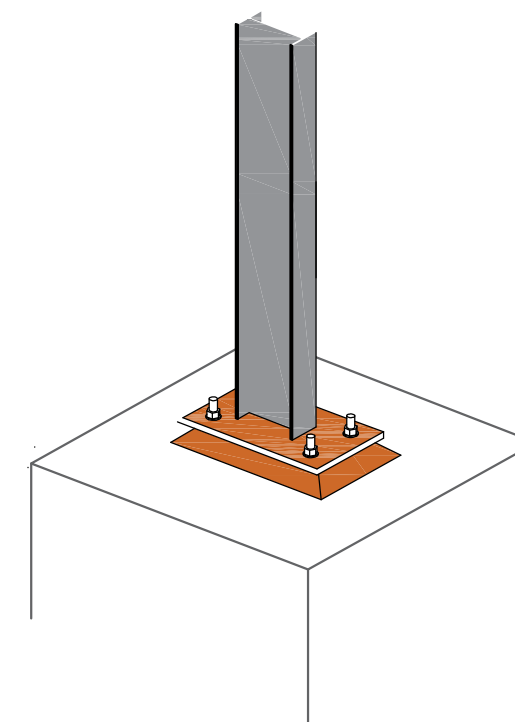
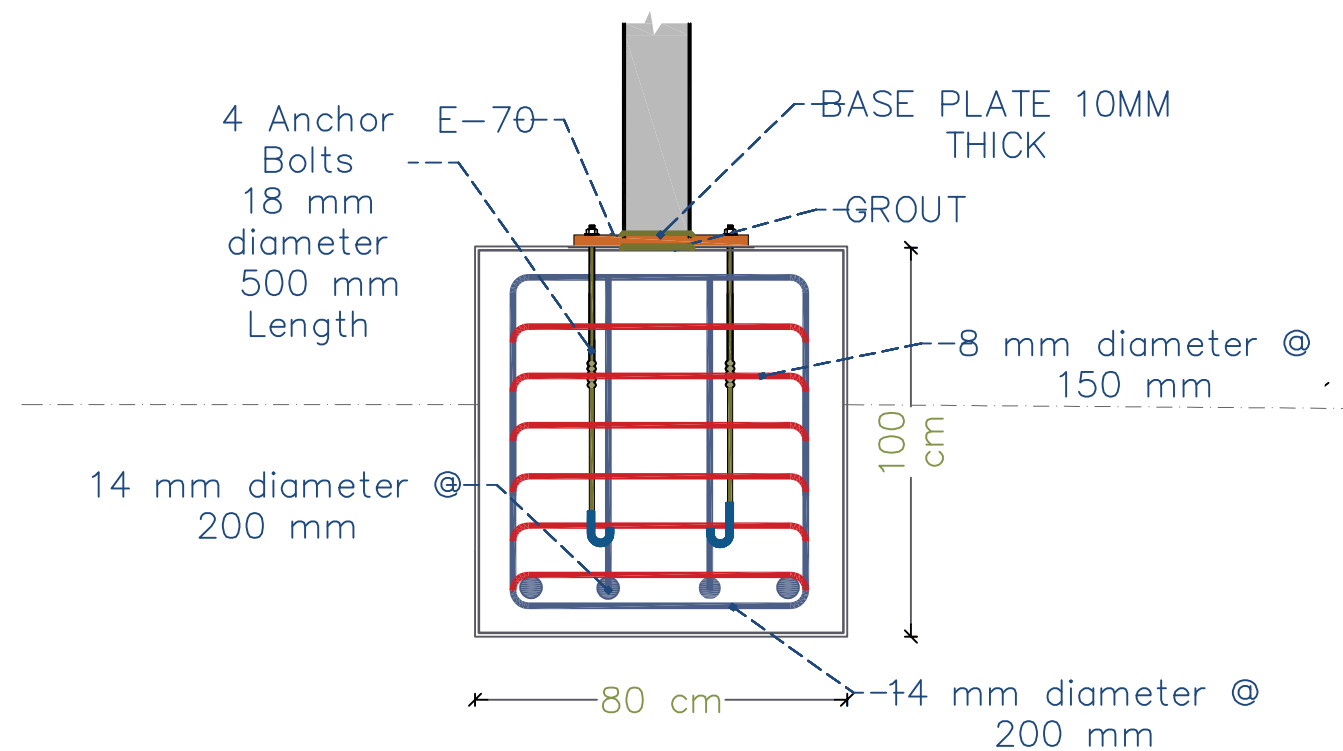
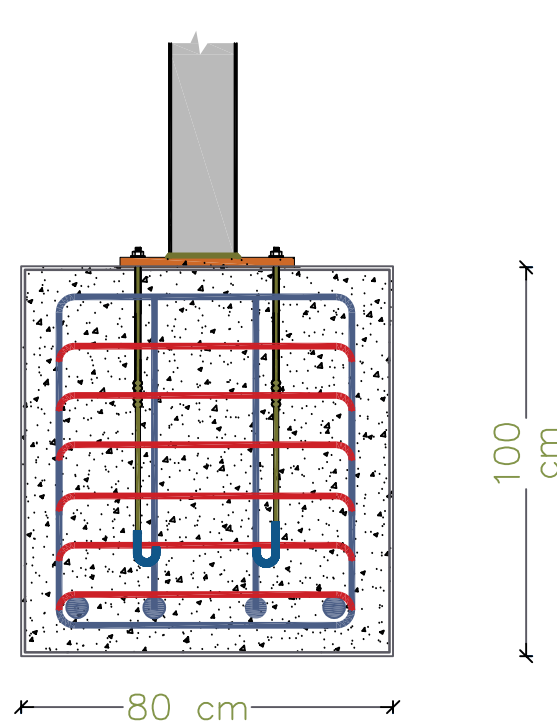
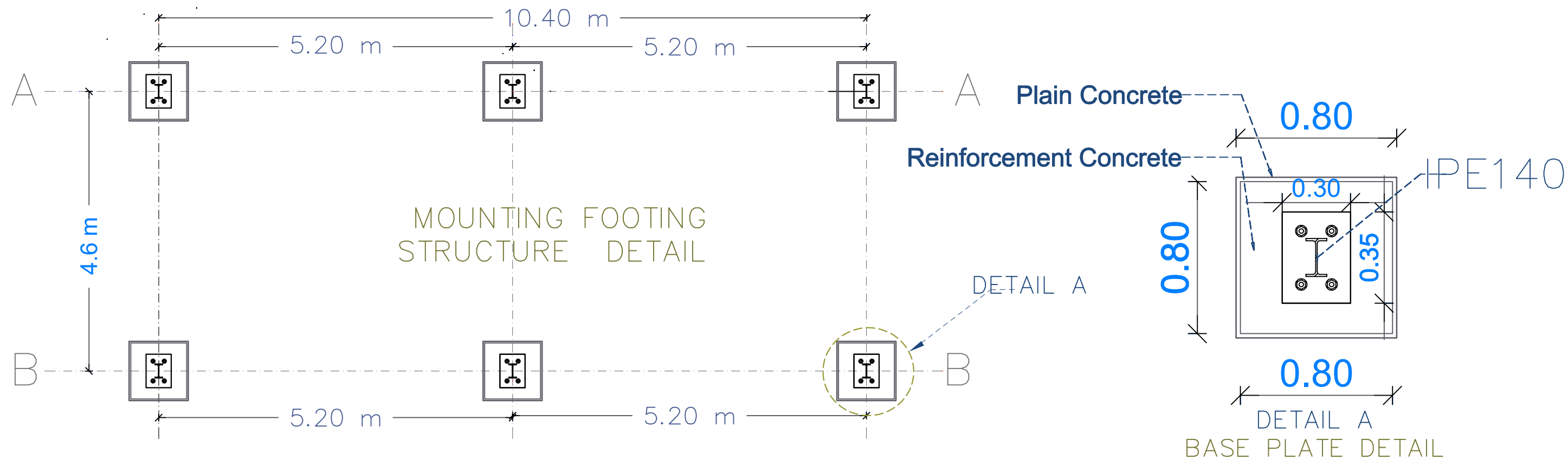
10cm vertically
space between
module



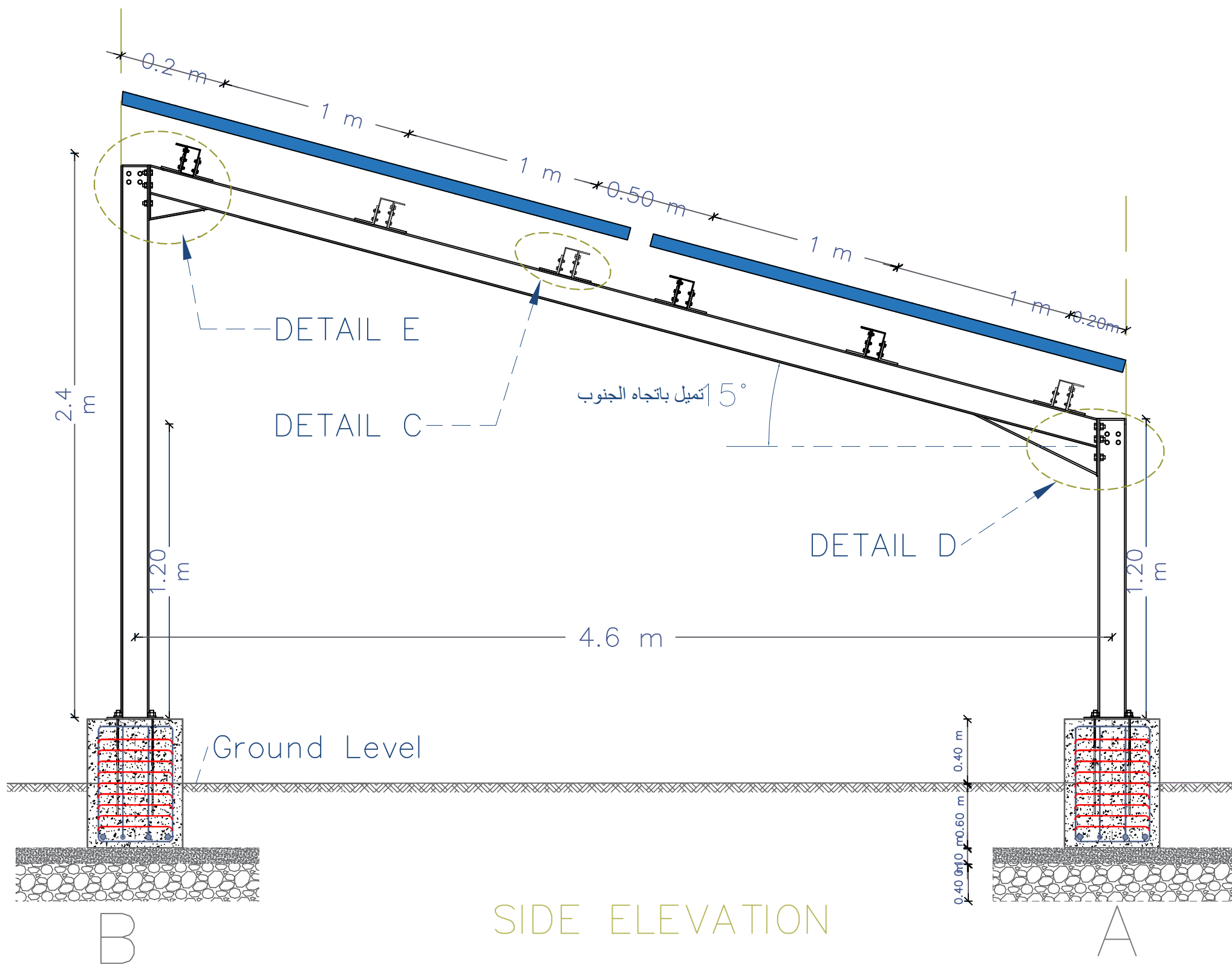
SOLAR PANEL DETAIL A

FULL FRAMING PLAN

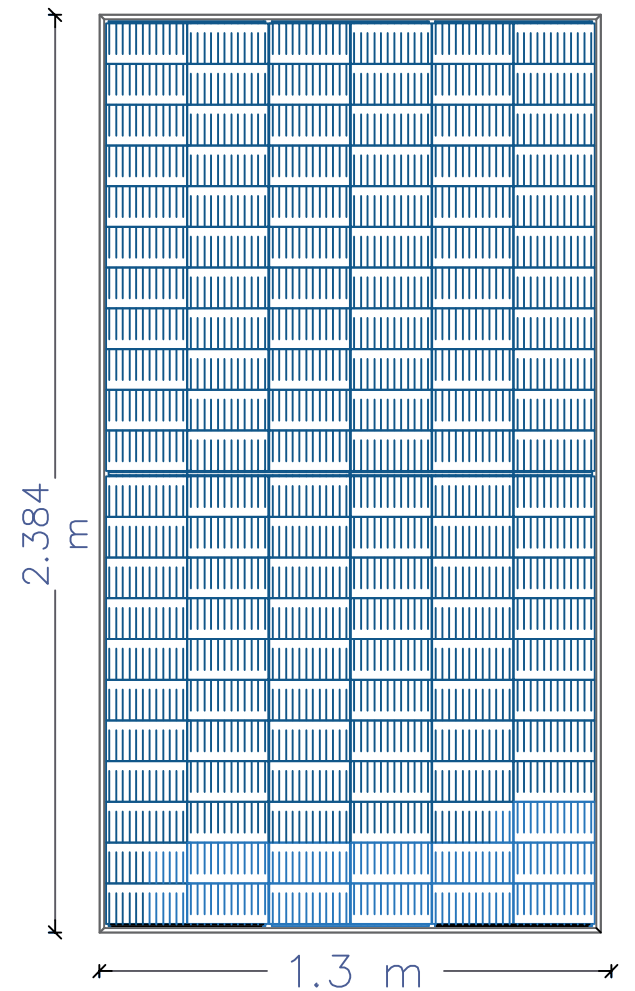
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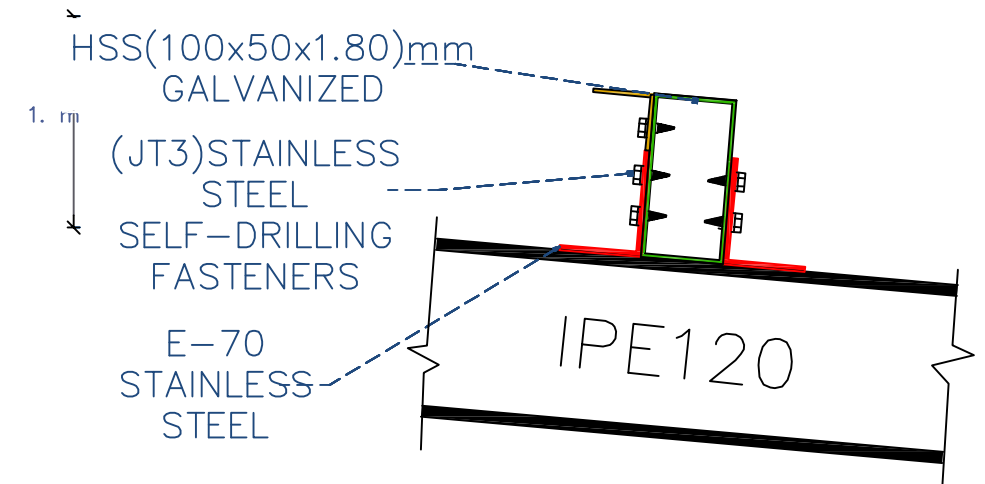
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		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
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SIDE ELEVATION

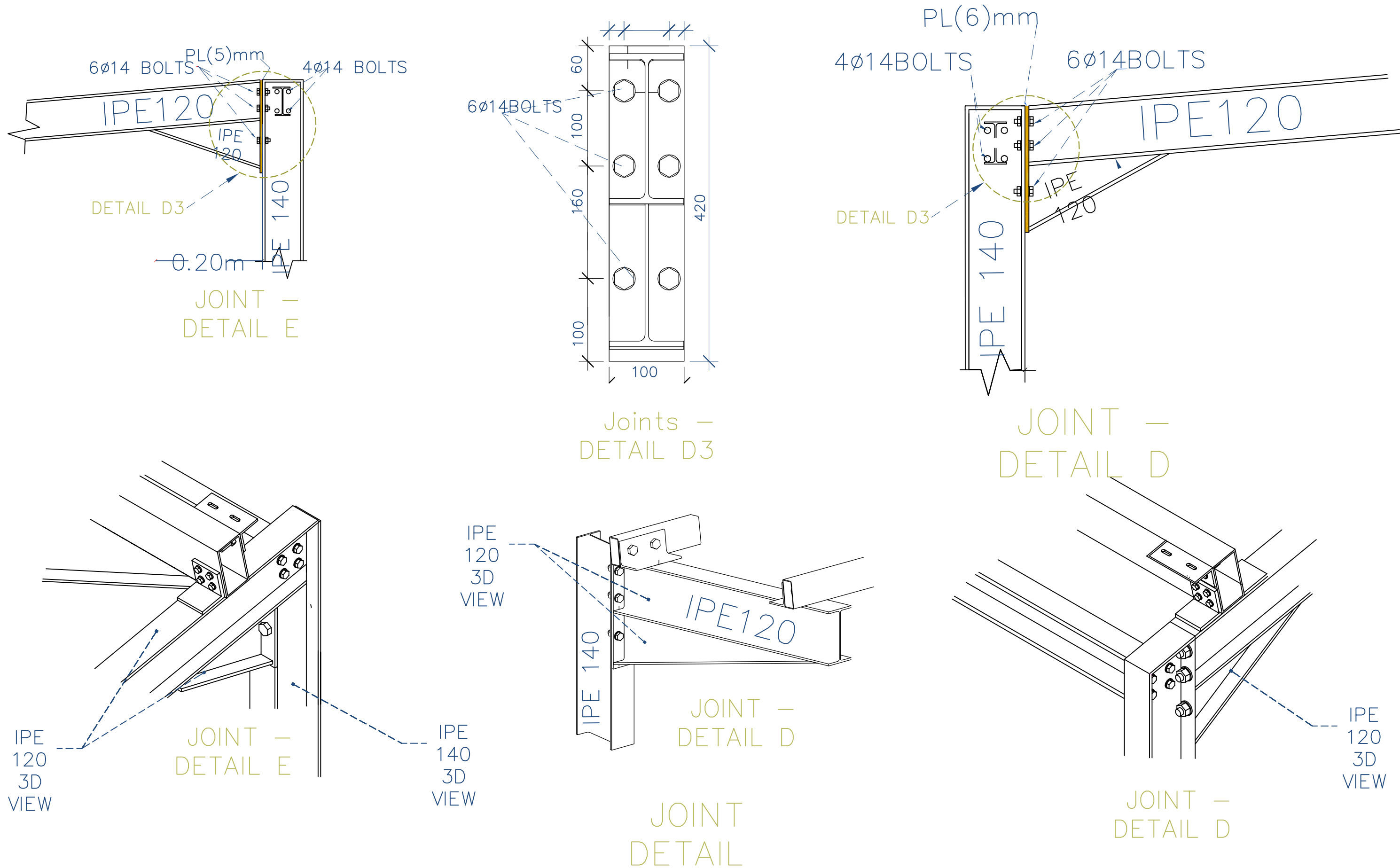


Panel Dimension

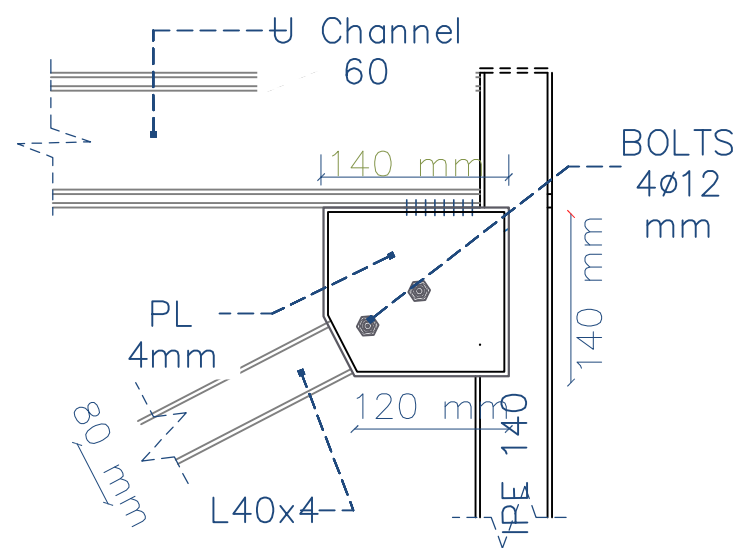
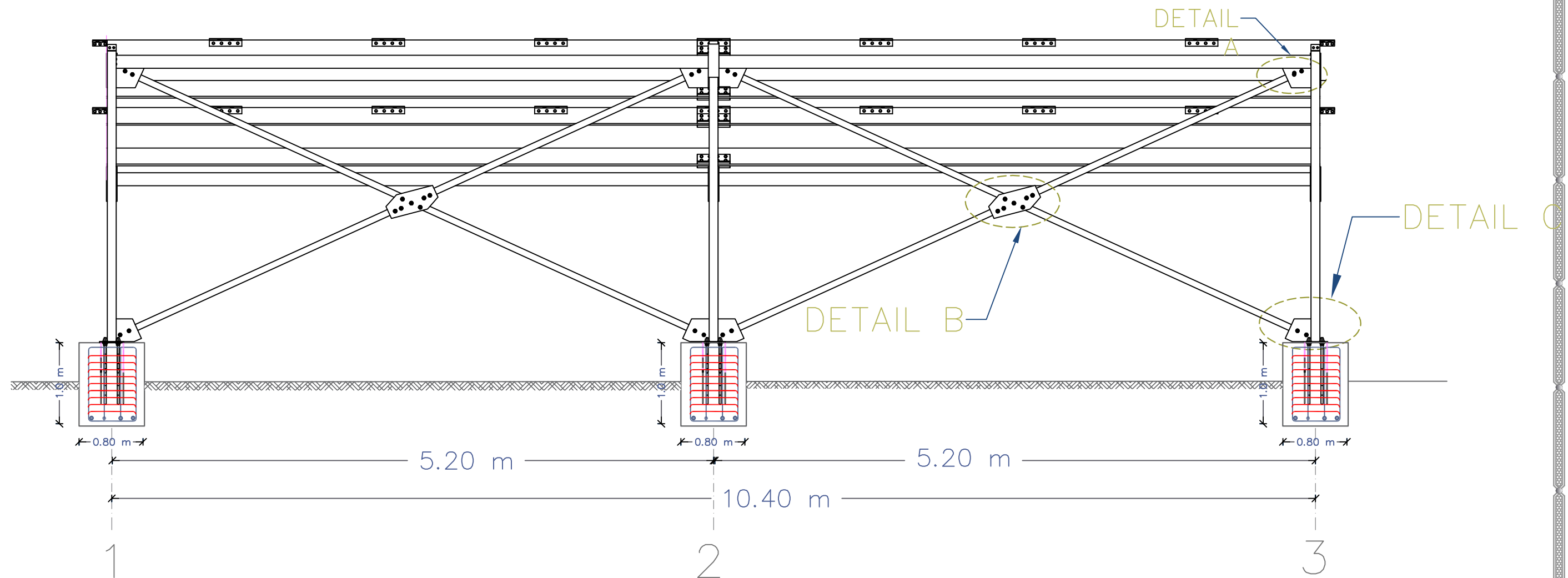


JOINT —
DETAIL C

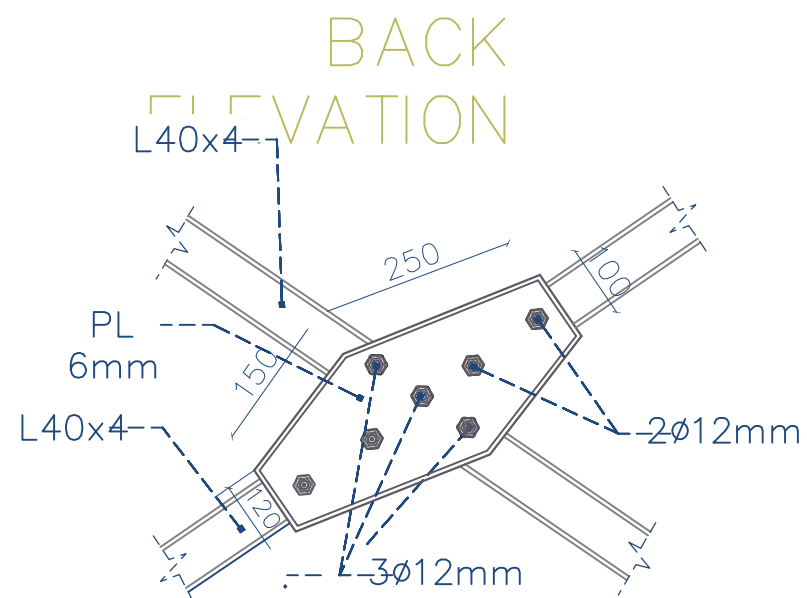
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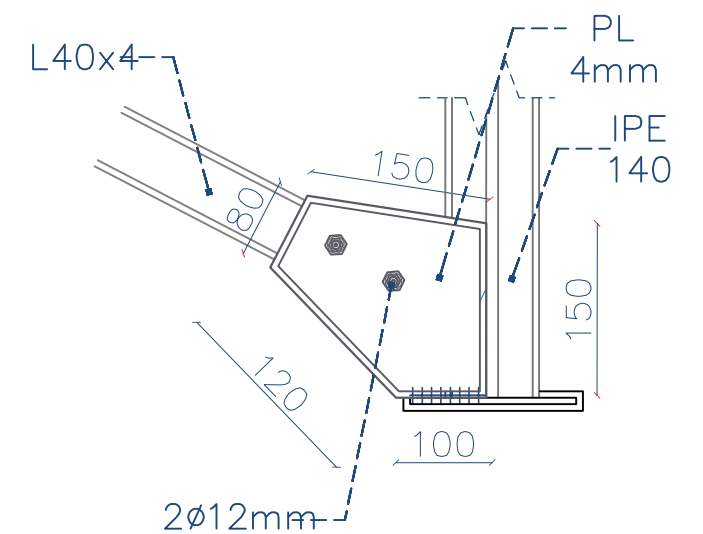
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		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
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JOINT —
DETAIL A

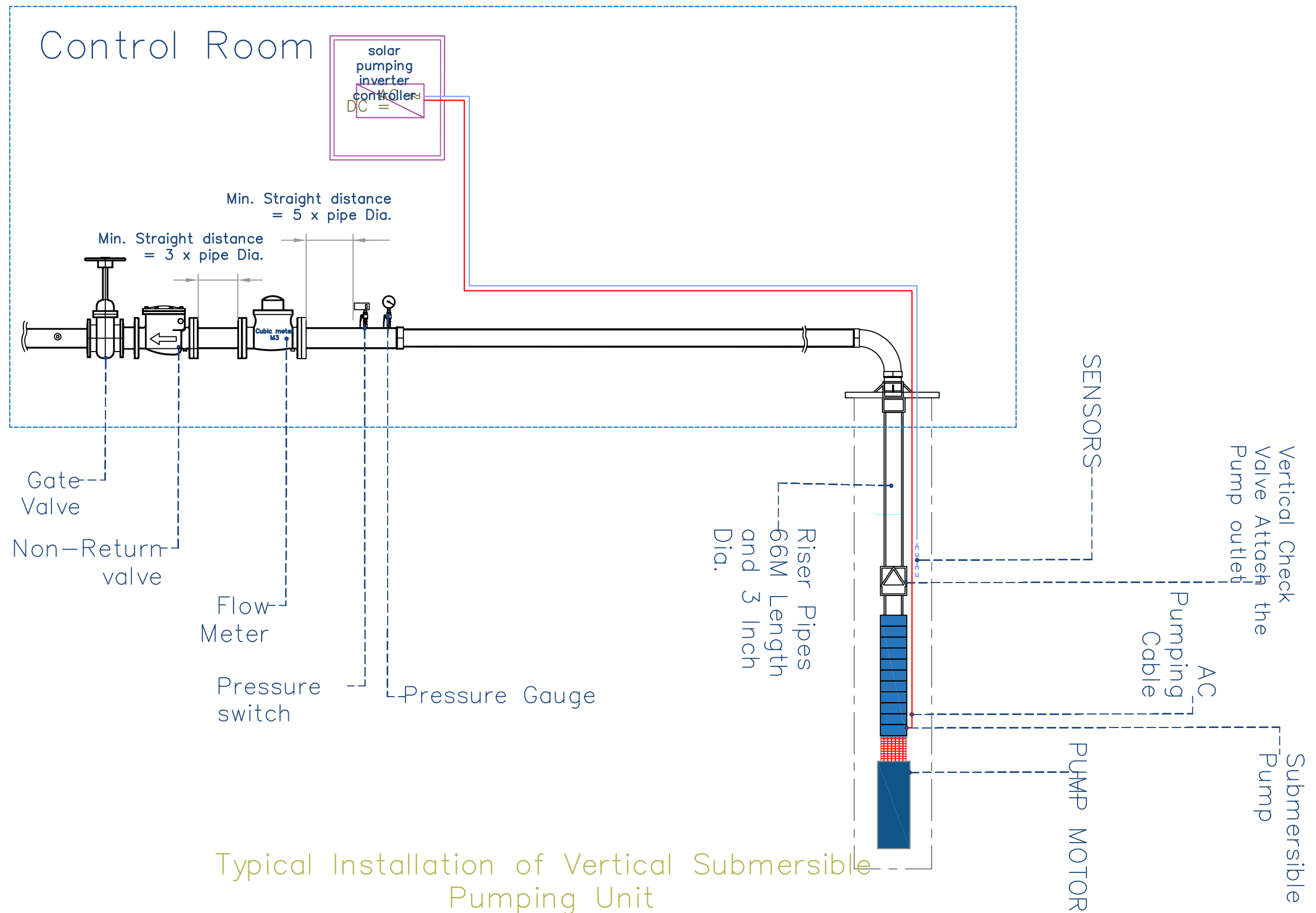


JOINT — DETAIL B

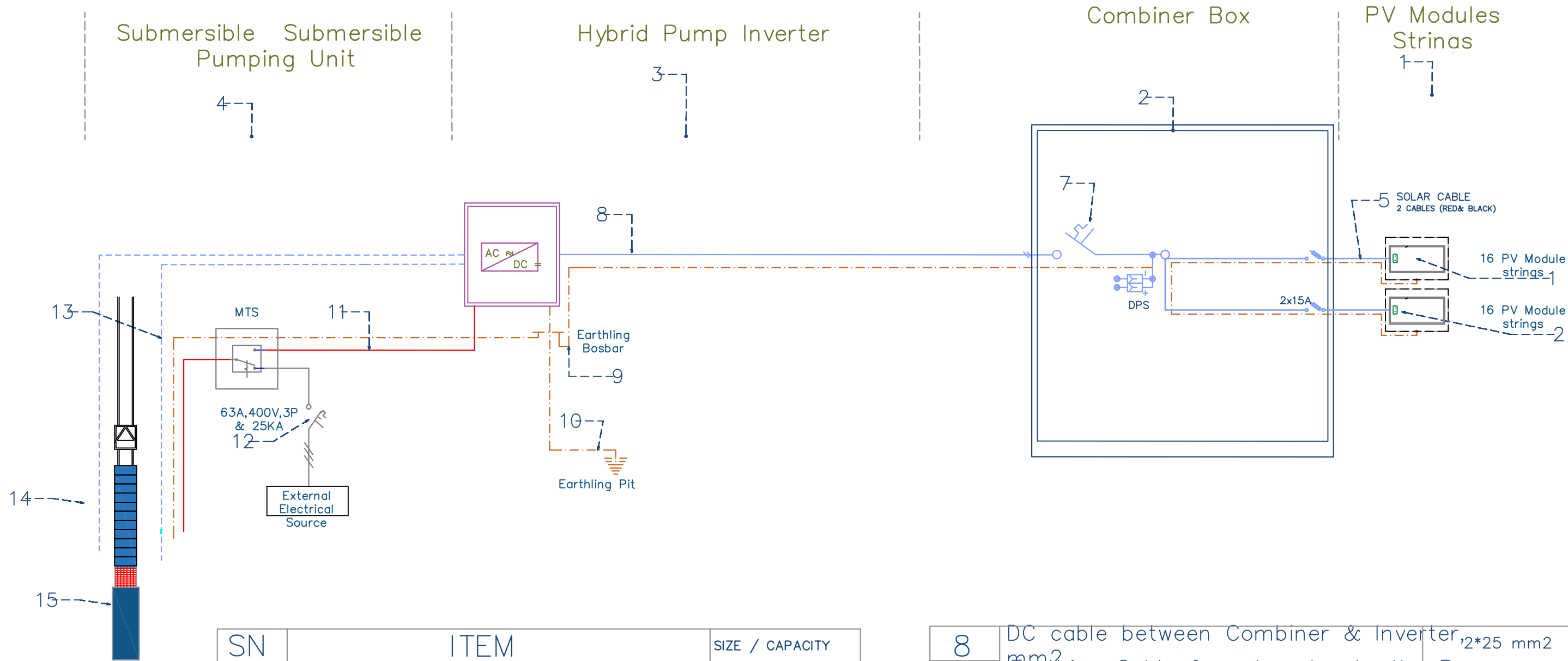


JOINT —
DETAIL C

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
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		MOCHA DISTRICT —	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
		TAIZ GOV			08/01/2026	As Shown	



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		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT - TAIZ GOV	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
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Submersible Pump Wiring Diagram

SN	ITEM	SIZE / CAPACITY
1	# of PV Strings and Total Modules	2 strips >= 22.720 kW
2	Combiner Box	>= 60 A
3	Inverter Power, KW	>= 22 kW
4	Submersible Pump Power , KW	>= 11.8 kW
5	DC cable Between Arrays to Combiner Box	>= 2*10 mm2
6	Earthling Cable between PV modules	10 mm2
7	Combiner DC circuit breaker size	As BOQ

8	DC cable between Combiner & Inverter	2*25 mm2
9	Earthling Cable from Inverter to the Bus bar	10 mm2
10	Earthling Cable from bus bar to earthling pit	10 mm2
11	Pump AC Cable , mm2	3*25 mm2
12	12 input AC circuit breaker, A	As BOQ
13	Level Sensor Cable , mm2	>= 1.5 mm2
14	Pressure Switch Cable, mm2	>= 2*1.5 mm2
15	Submersible Pump Motor , KW	>= 13 kW

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Funded by:



Project Title:

REHABILITATIONS OF
ALJUMAA WATER PROJECT

Project Location:

MOCHA DISTRICT -

Drawing Title:

SUBMERSIBLE PUMP WIRING DIAGRAM

Project Name:

RAINS OF RESILIENCE 2026

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

First Draft

Project No:

Date

08/01/2026

Paper Size:

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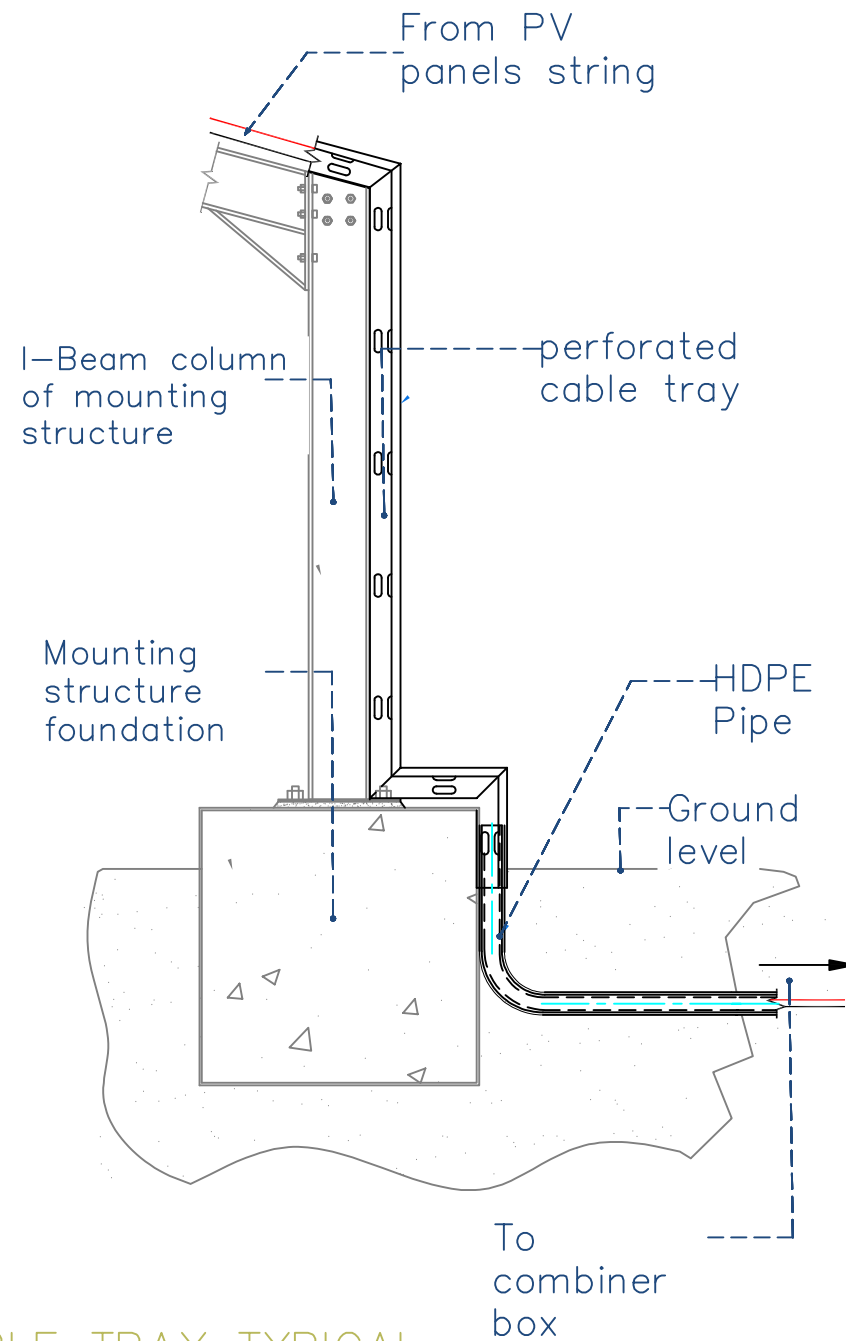


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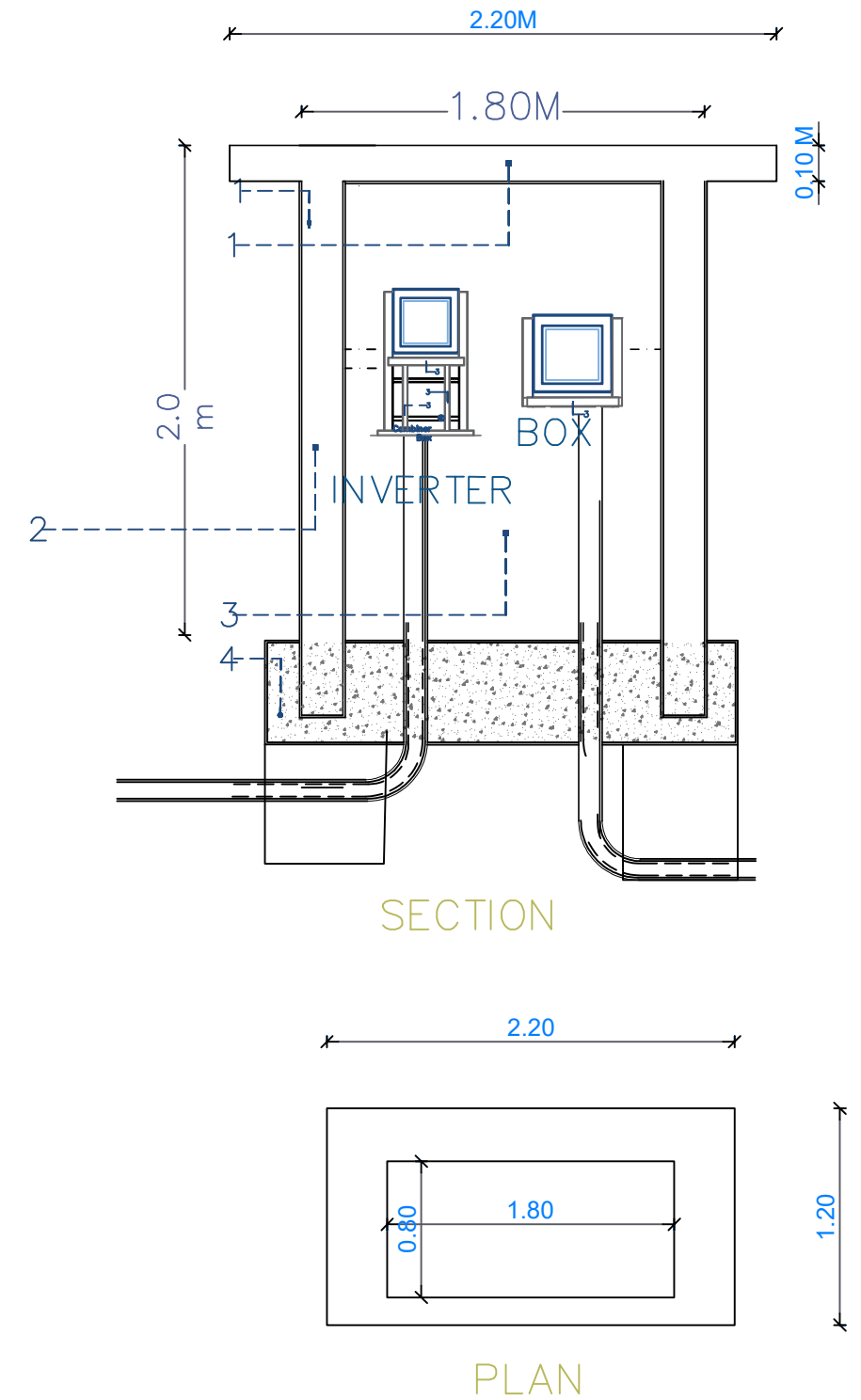
A1-11

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

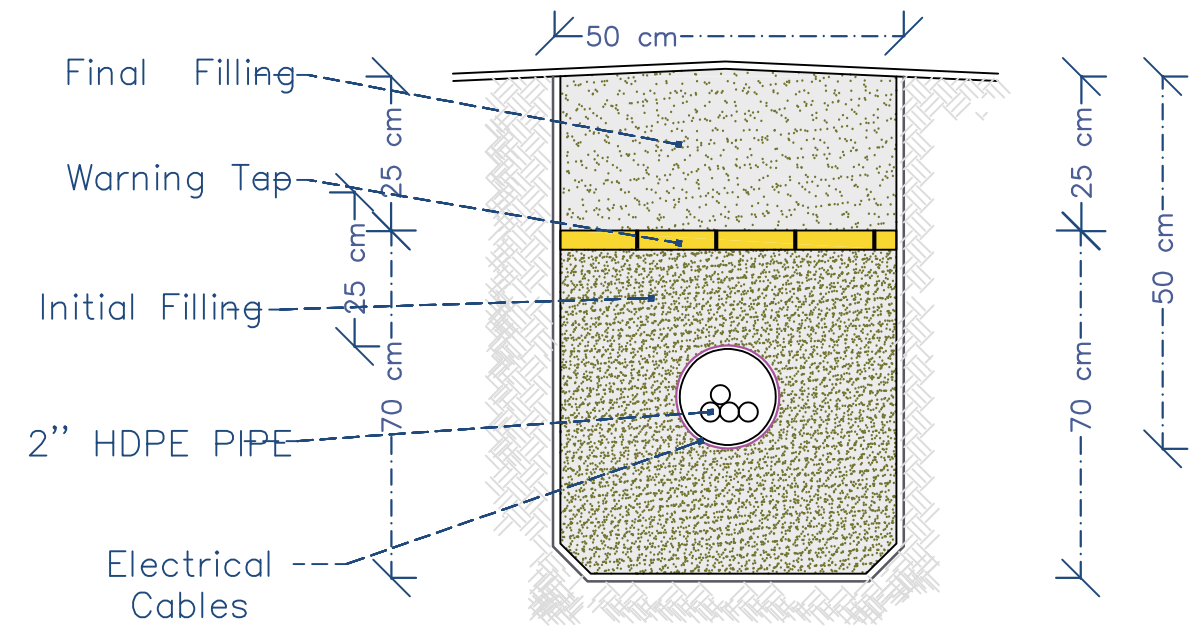
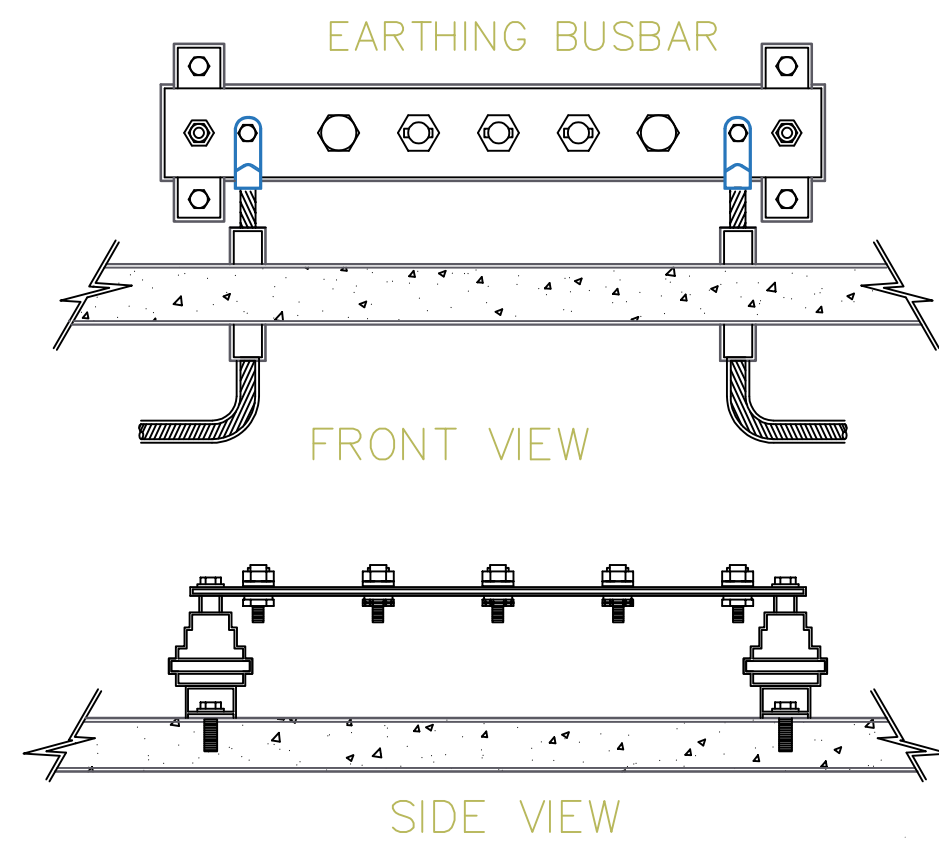
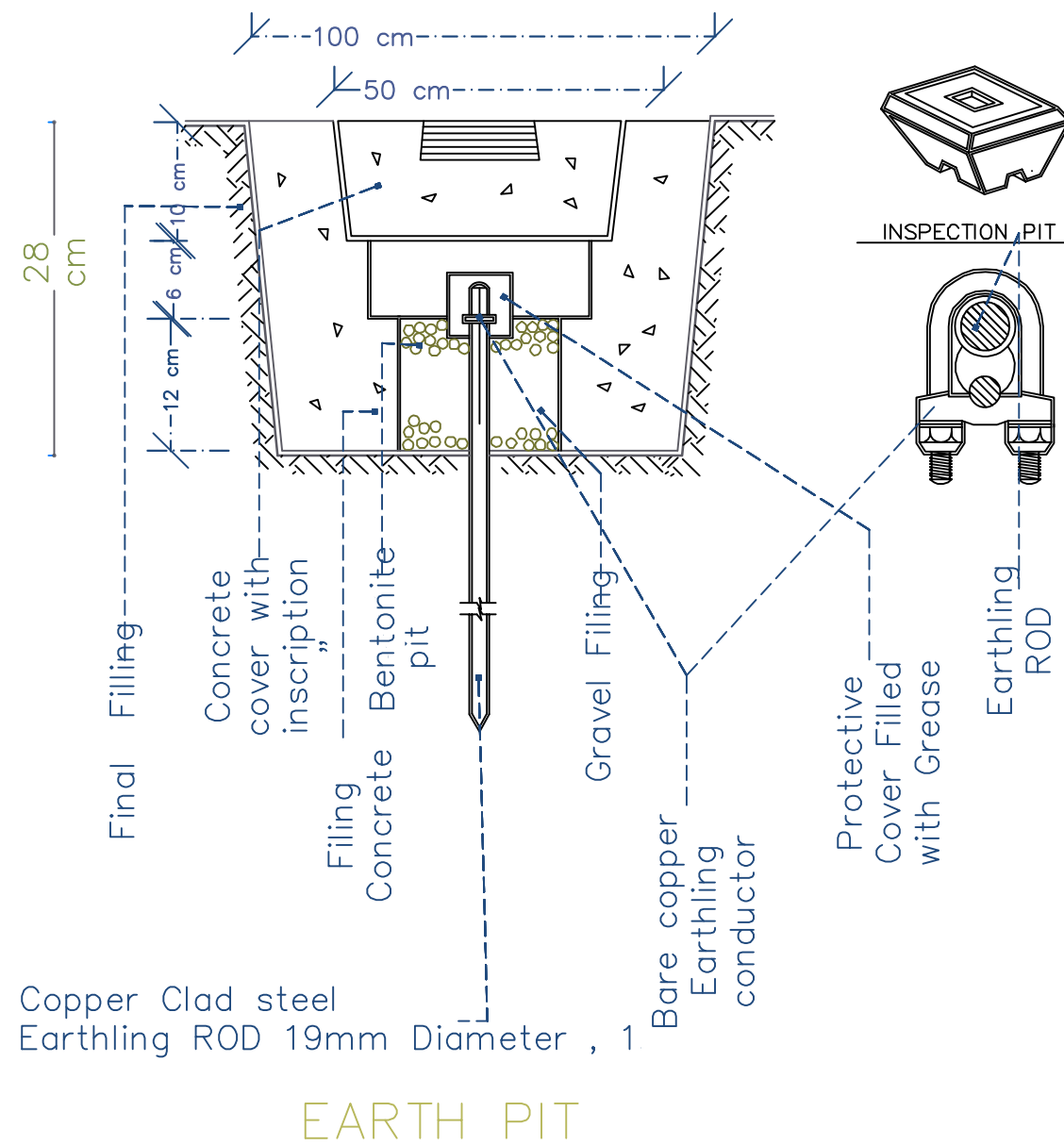


PERFORATED CABLE TRAY TYPICAL INSTALLATION



COPNTROL ROOM FOR INVERTER
AND COMBINER BOX N

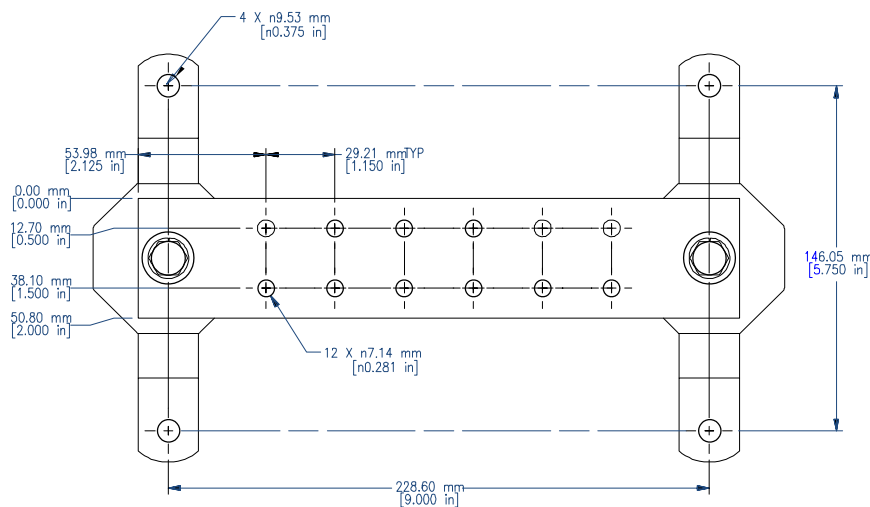
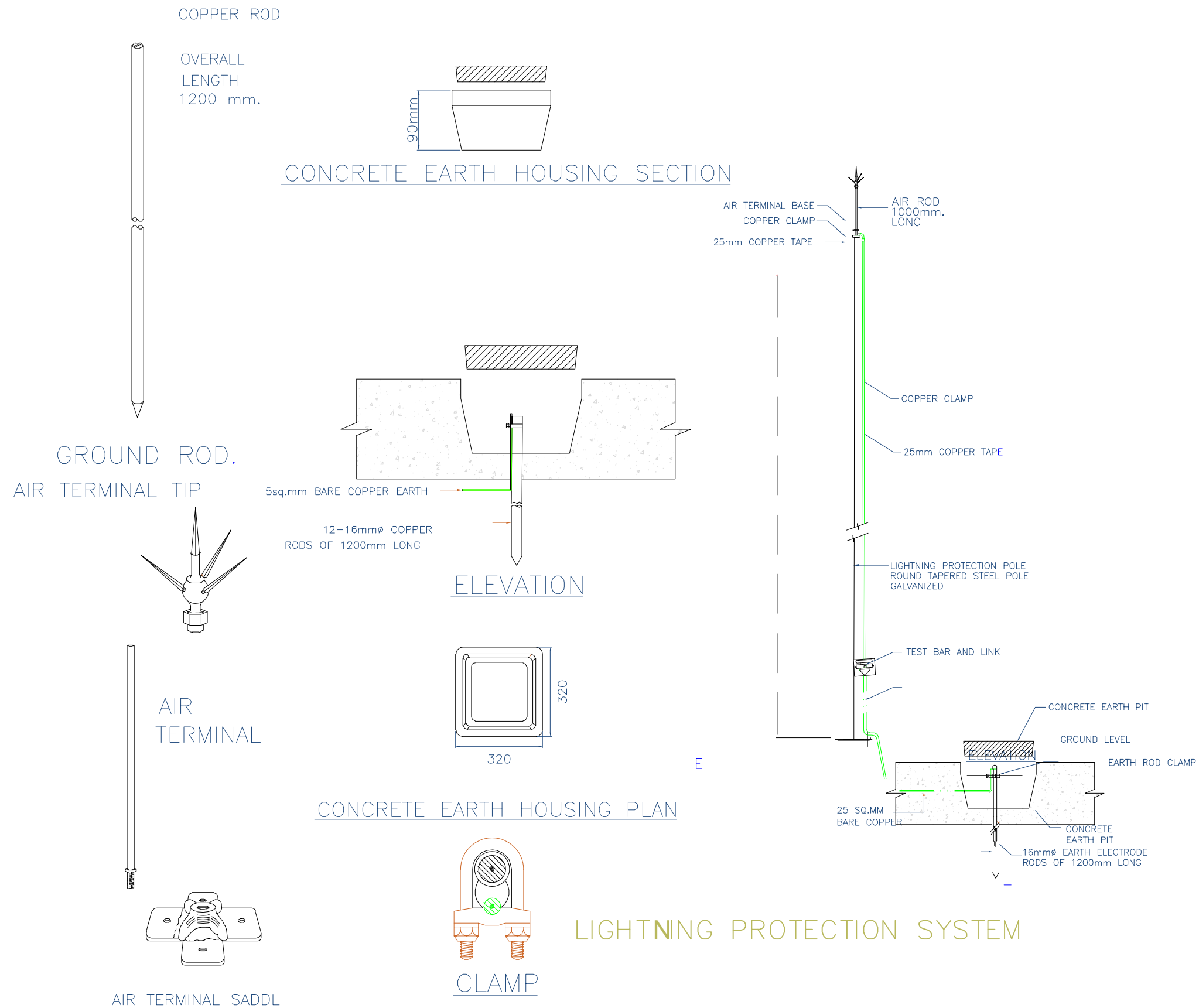
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		MOCHA DISTRICT – TAYO	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	08/01/2026	Scale	As Shown		



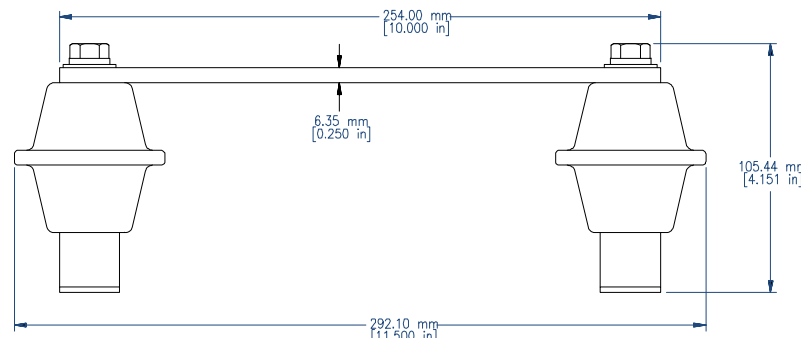
EARTH PIT DETAILS

EARTH PIT DETAILS

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ASSEMBLY - TOP VIEW



ASSEMBLY - SIDE VIEW

EARTHING BUSBAR

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF
ALJUMAA WATER PROJECT

Project Location:

MOCHA DISTRICT -

Drawing Title:

LIGHTNING PROTECTION SYSTEM

Project Name:

RAINS OF RESILIENCE 2026

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

First Draft

Project No:

Date

08/01/2026

Paper Size:

A3

Scale

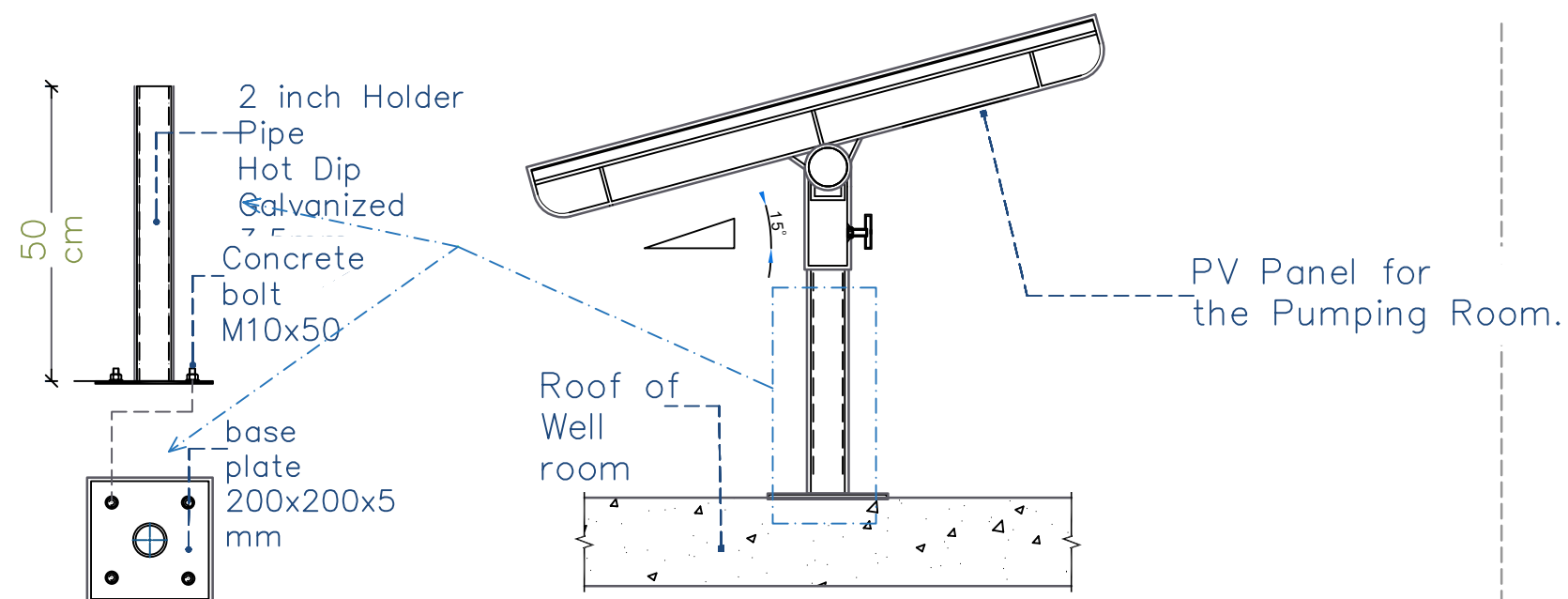
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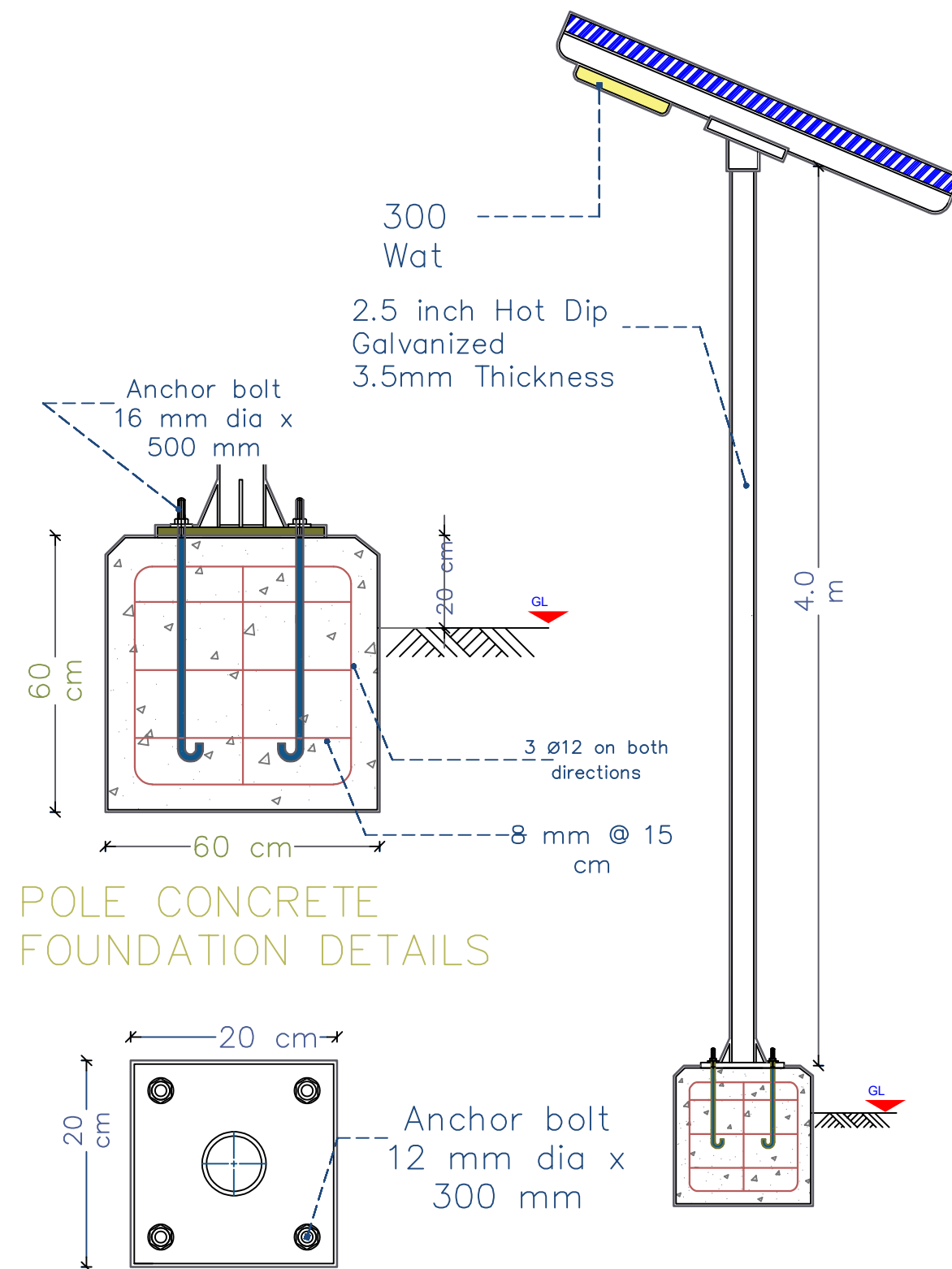
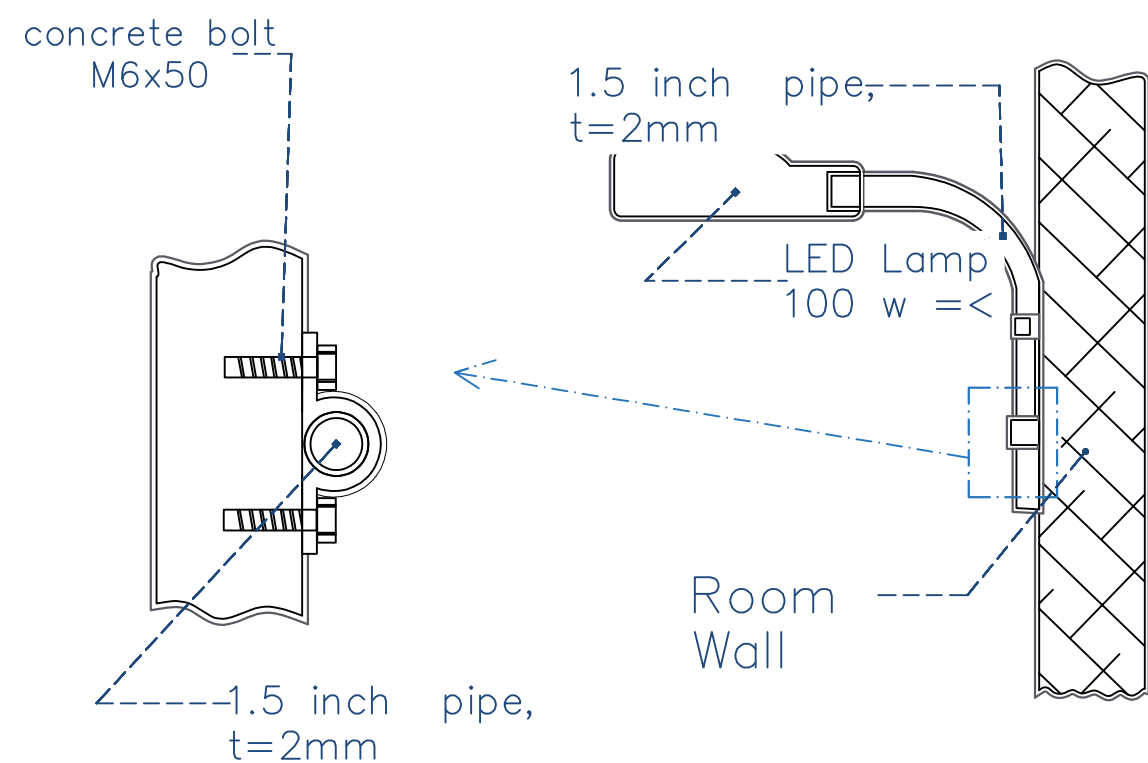


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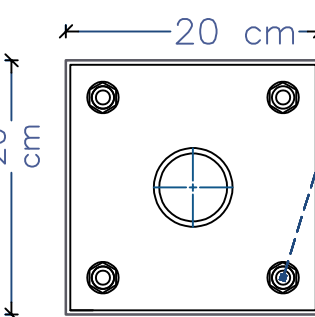
A1-14



PV PANEL OF ROOM LIGHTING
TYPICAL INSTALLATION



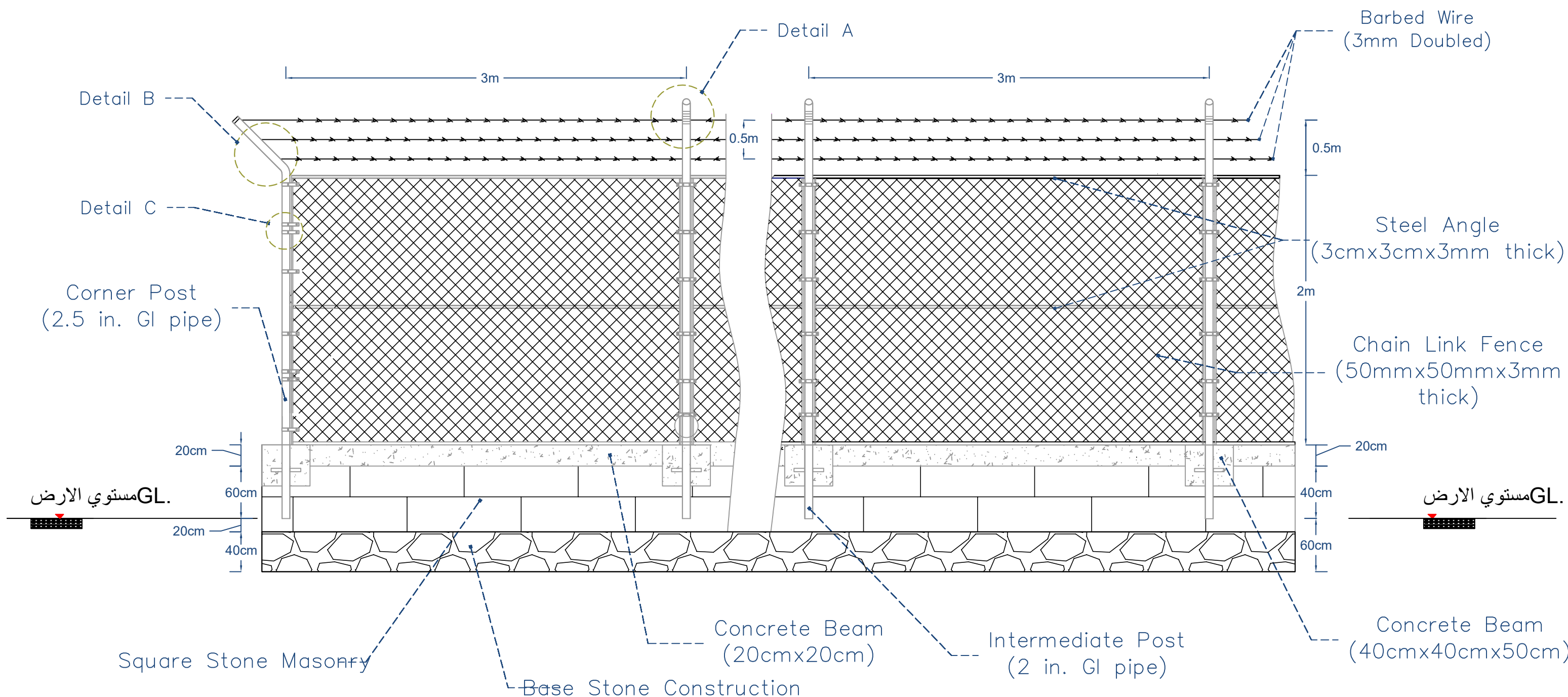
POLE CONCRETE
FOUNDATION DETAILS



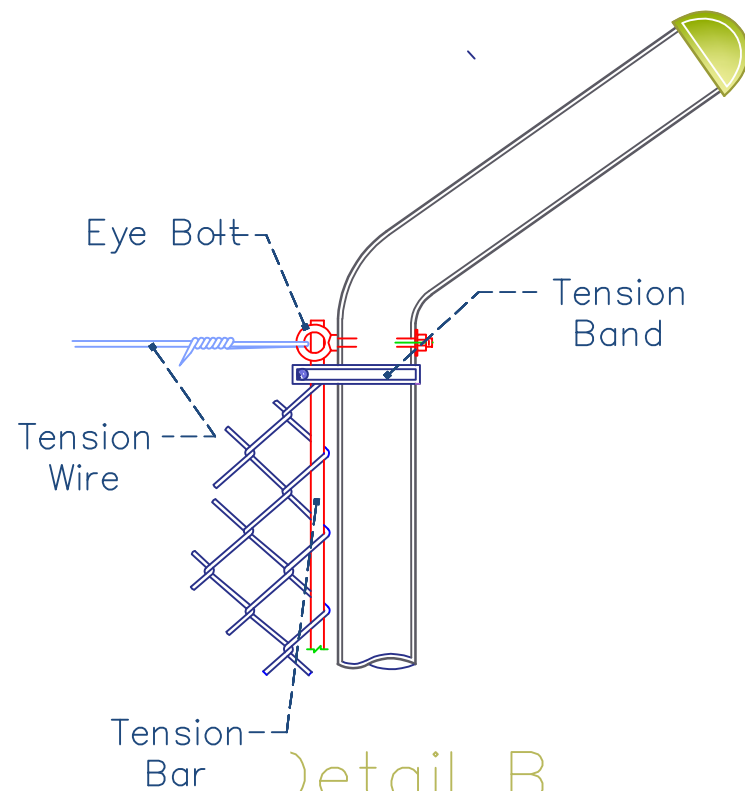
BASE PLATE
DETAIL

DETAIL — B

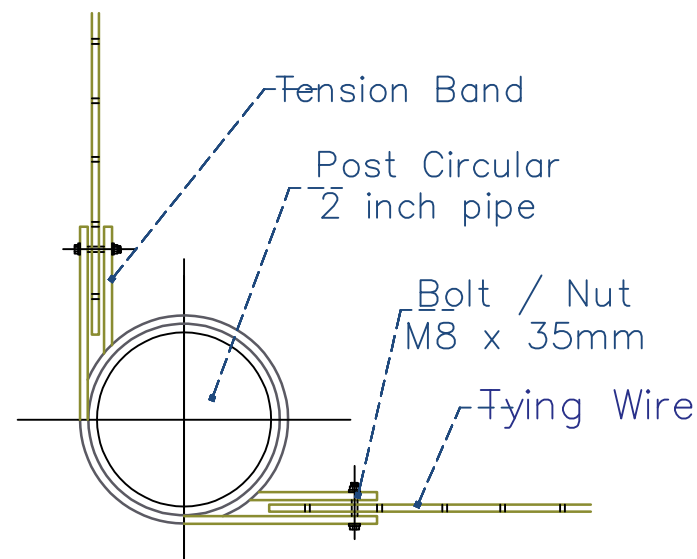
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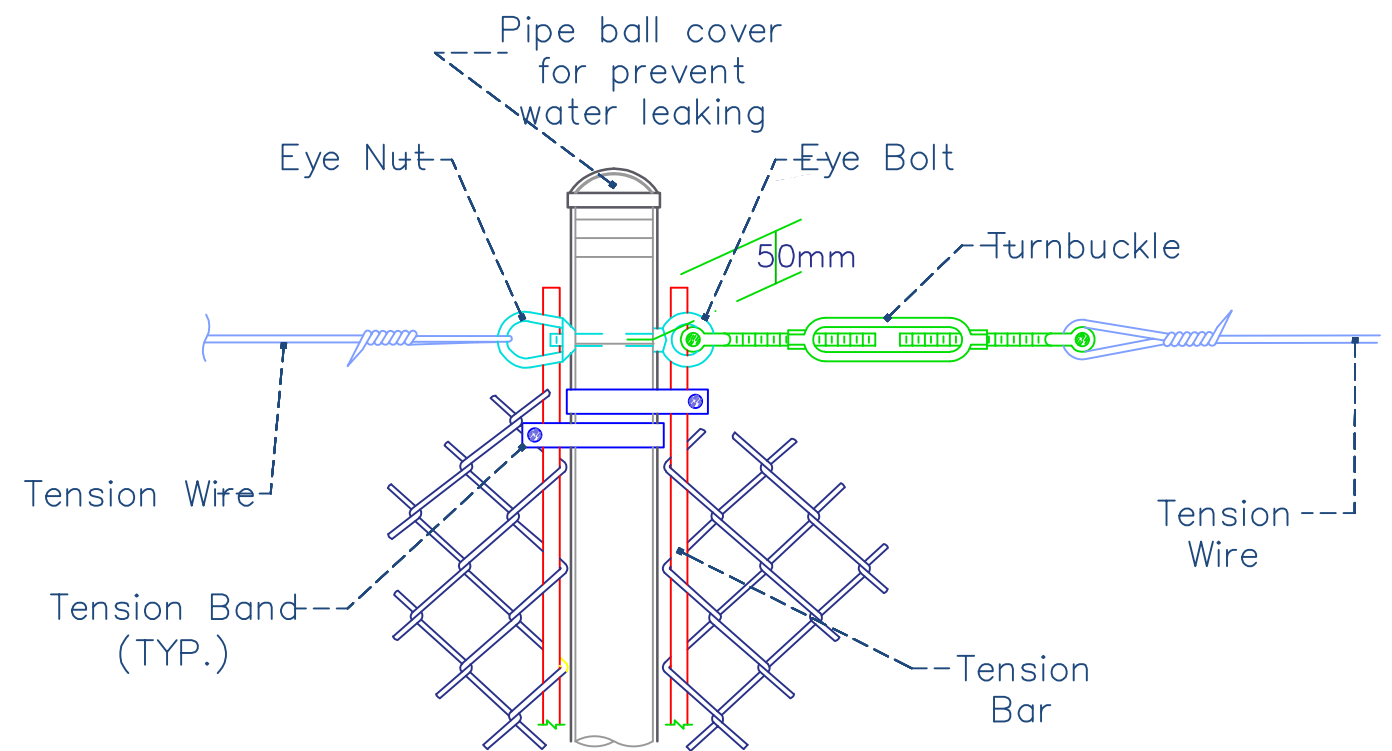
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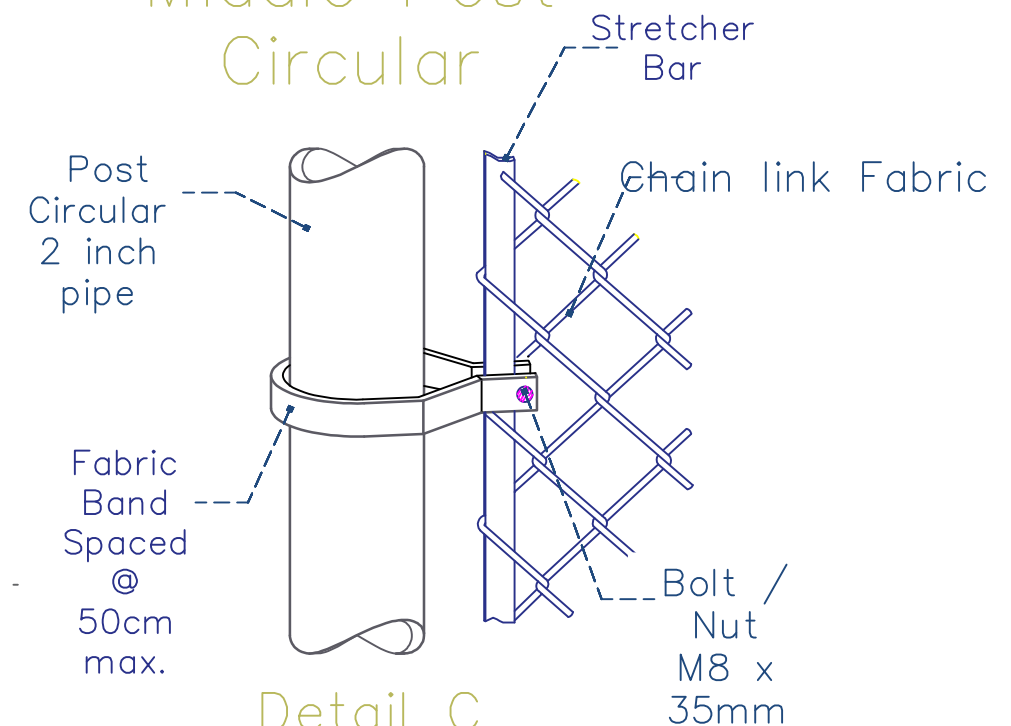
Detail B
Corner Post



Plan view
Corner Post pip tying

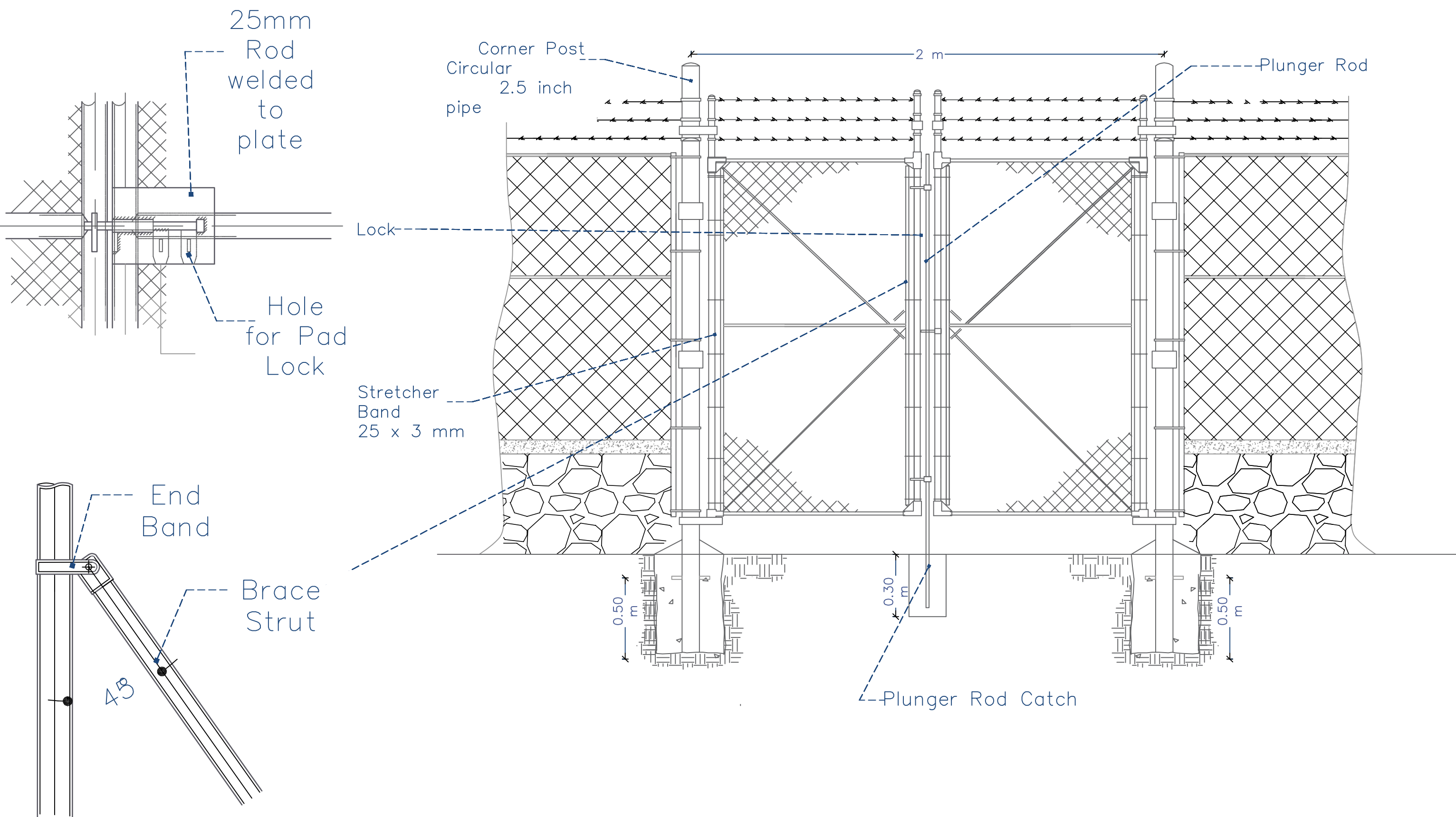


Detail A
Middle Post
Circular

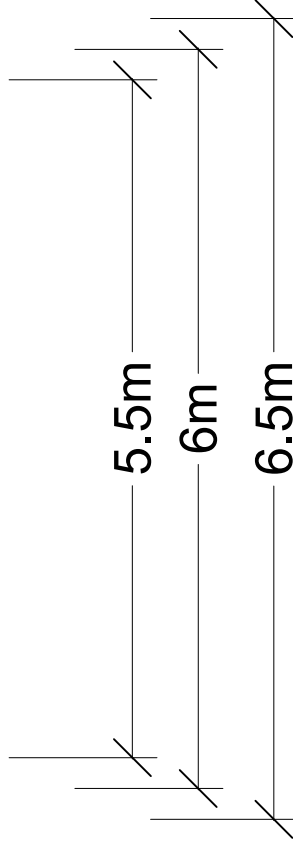
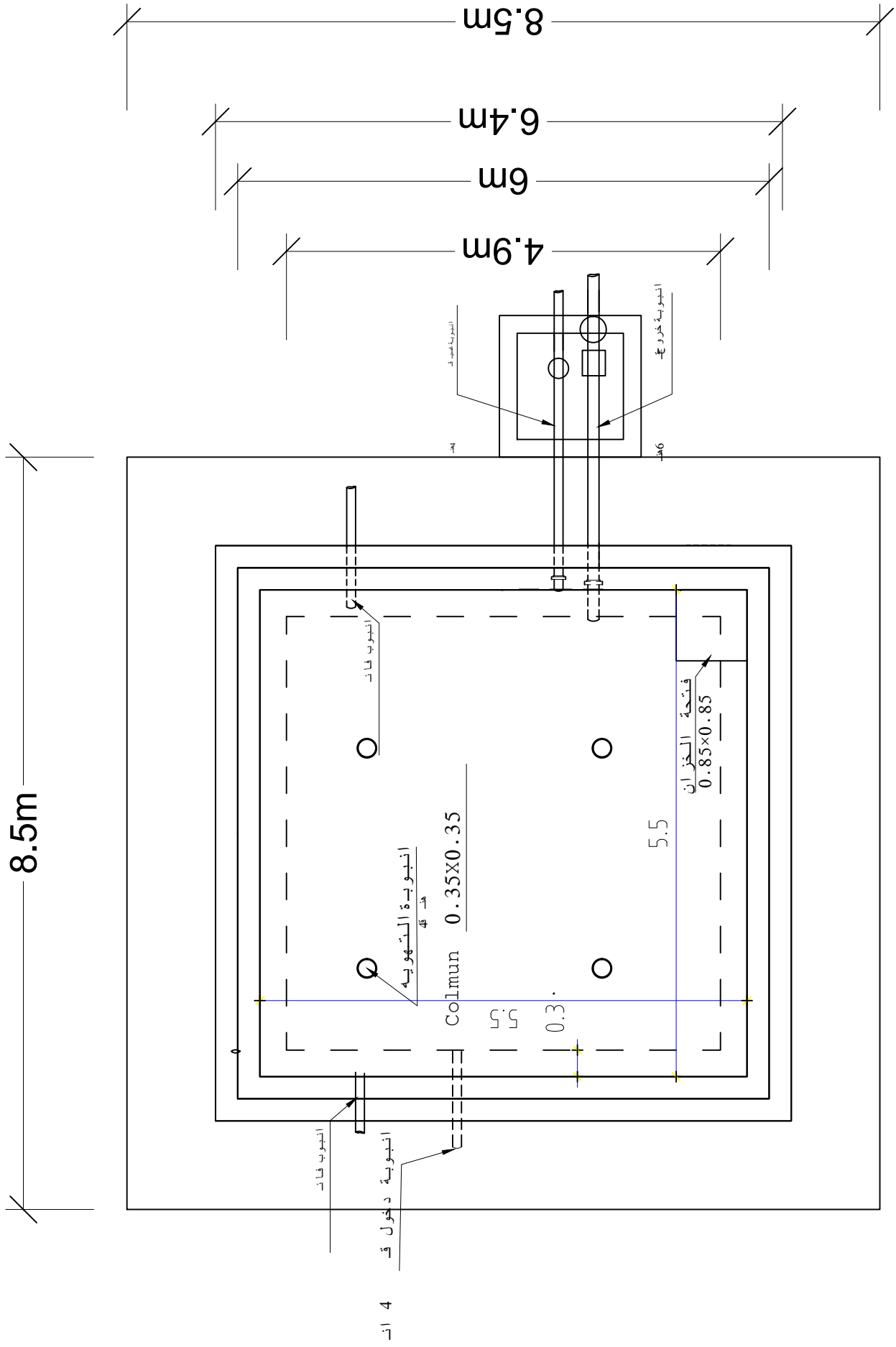


Detail C
Stretcher Bar

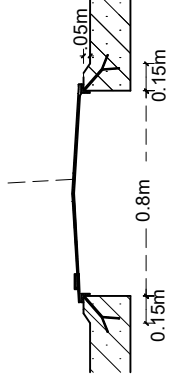
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	PROTECTION FENCE DETAILS	SPRY - WASH Sector	First Draft		A1-17
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	



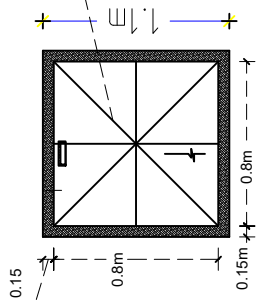
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	MAIN ENTRANCE GATE	SPRY - WASH Sector	First Draft		A1-18
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	



Angle 1.5inches 2 ,mm thick ,
plate 2mm thick
اطار شلمان 1.5 هنش سماكة 2 ملم وبنثره
جافى محبب ابو 2 ملم



Angle 1.5inches 2 ,mm
thick ,plate 2mm thick
اطار شلمان 1.5 هنش سماكة 2 ملم
وبنثره جافى محبب ابو 2 ملم



تفاصيل غطاء سقف الخزان
Details Tank roof cover

Plan Concrete tank 100 m3 Scale 1:100

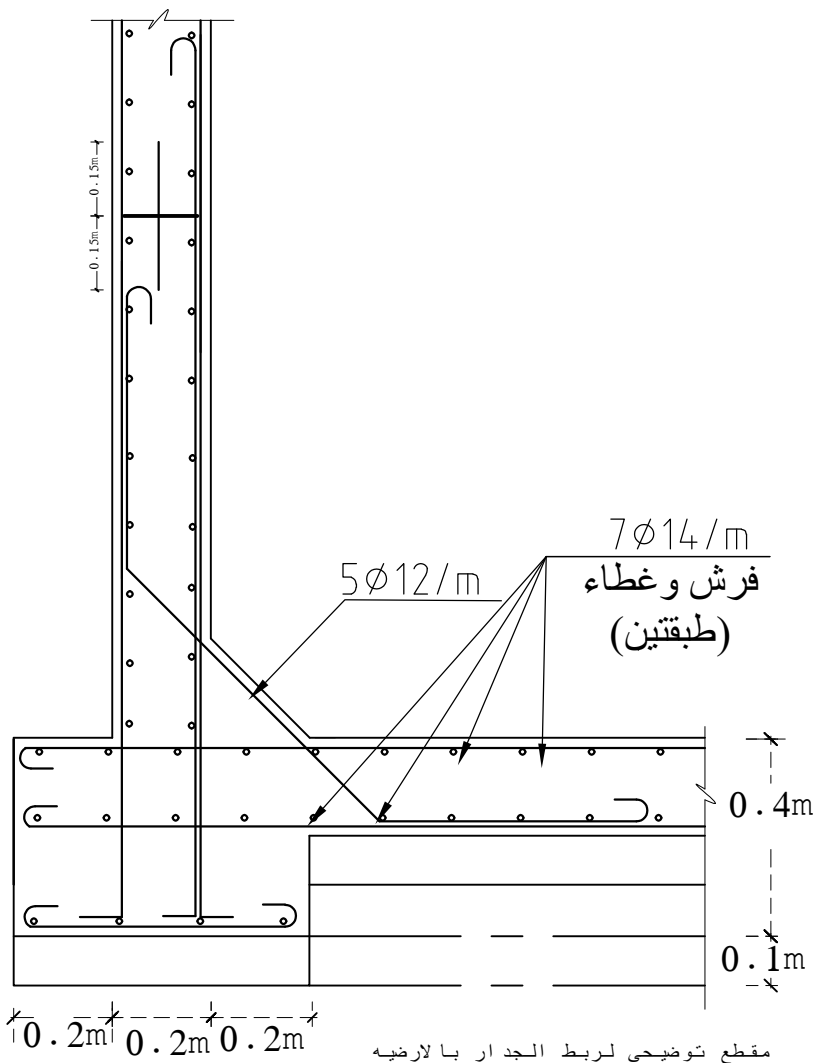
مسقط افقي

للخزان الارضى الخرسانى سعة 100 م3

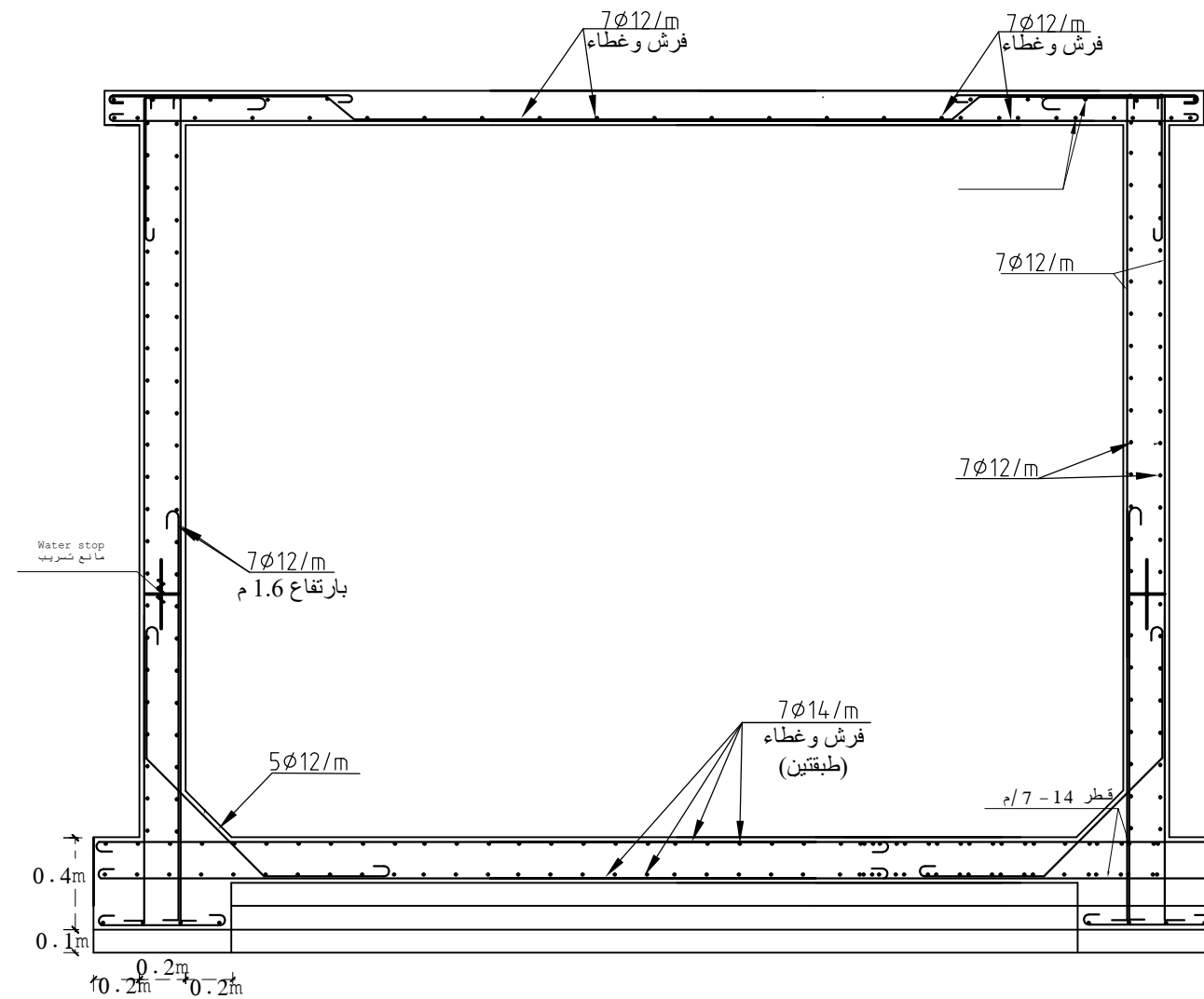
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
Samaritan's Purse® INTERNATIONAL RELIEF	Samaritan's Purse® INTERNATIONAL RELIEF	REHABILITATIONS OF ALJUMAA WATER PROJECT	GROUND CONCRETE TANK PLAN	SPRY - WASH Sector	First Draft	N W E S	A1-19
		Project Location:	Project Name:	Approved by:	Project No:		
		MOCHA DISTRICT - ALJUMAA	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	08/01/2026		
					Paper Size:		
					A3		
					Scale		
					As Shown		



Prepared by: 	Funded by: 	Project Title:	Drawing Title:	Designed and reviewed by:	Status:				North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	GROUND CONCRETE TANK ELEVATION AND SECTION	SPRY - WASH Sector	First Draft					A1-20
		Project Location:	Project Name:	Approved by:	Project No.		Paper Size:	A3		
		MOCHA DISTRICT – TAYOCCA	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	08/01/2026	Scale	As Shown		



مقطع توضيحي لربط الجدار بالأرضية

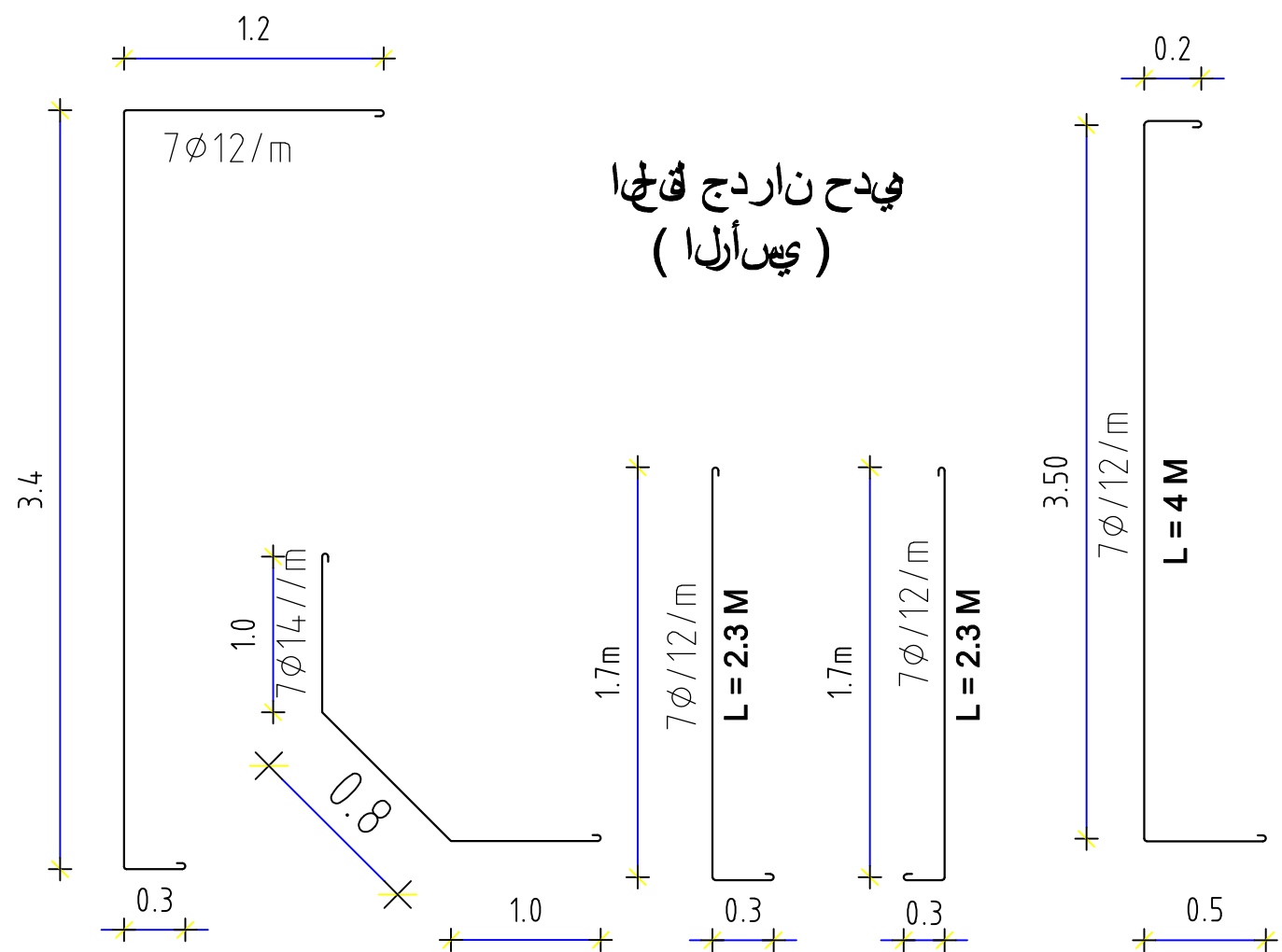


Section A-A Scale 1:200

Side section for Tank. scale 1:200

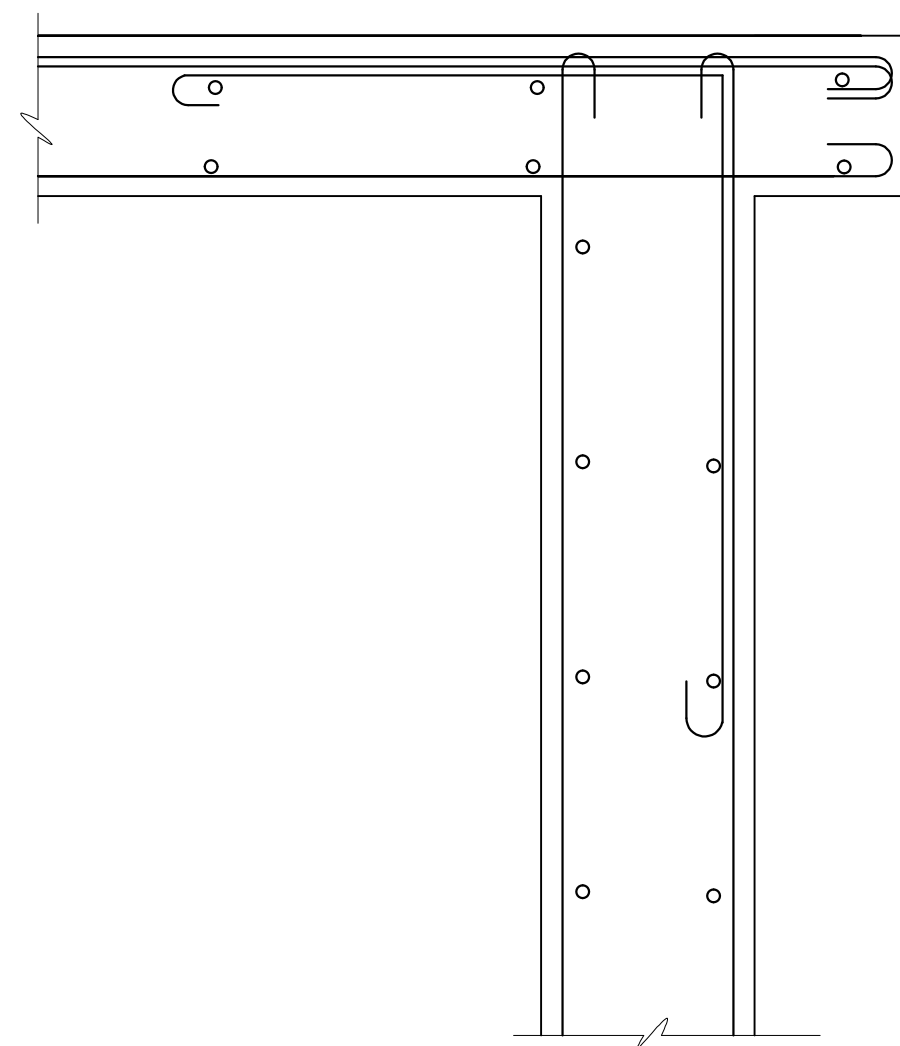
مقطع جانبي للخزان 1:200 مقياس

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	GROUND CONCRETE TANK FLOOR AND WELLS DETAILS	SPRY - WASH Sector	First Draft		A1-21
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	



بيدج نارديج قنجا
(يسألها)

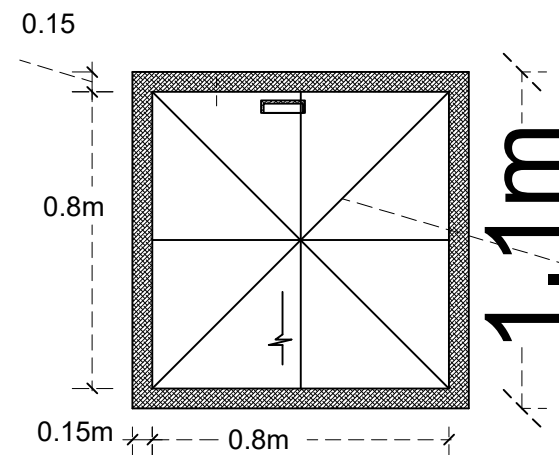
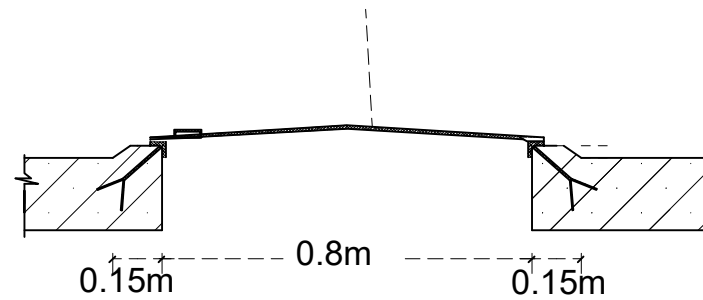
Details of the vertical reinforcement for the tank walls
ليصفت بيدجا يسألها نارديج نازجا



مقطع توضيحي لربط الجدار

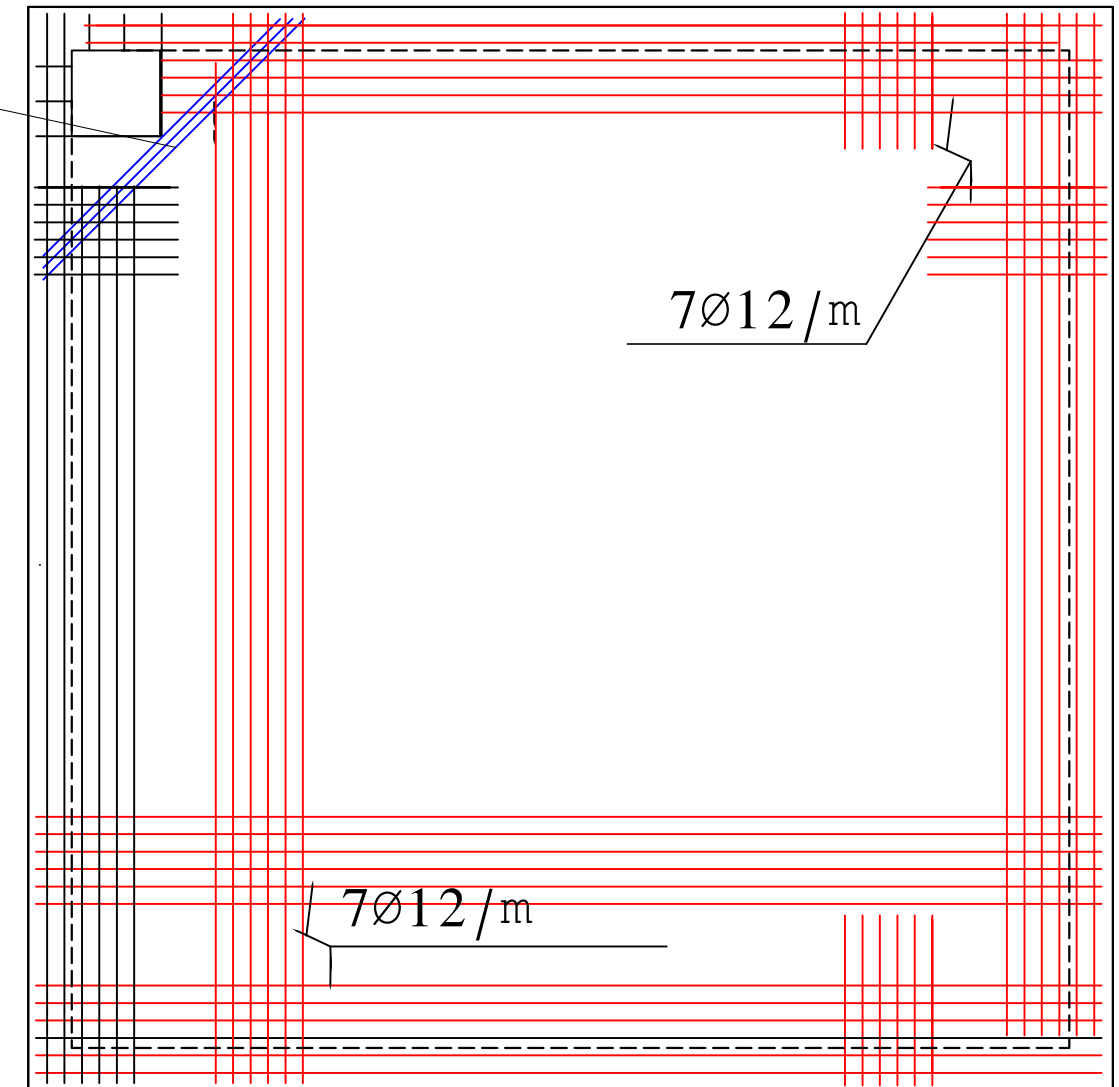
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	GROUND CONCRETE TANK BEAM AND WELLS DETAILS	SPRY - WASH Sector	First Draft		A1-22
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT – TAIZ GOV	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	

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



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

3Ø14mm



تفاصيل غطاء سقف الخزان

Details Tank roof cover

Reinforcement of roof

تفاصيل تسليح حديد سقف الخزان tank

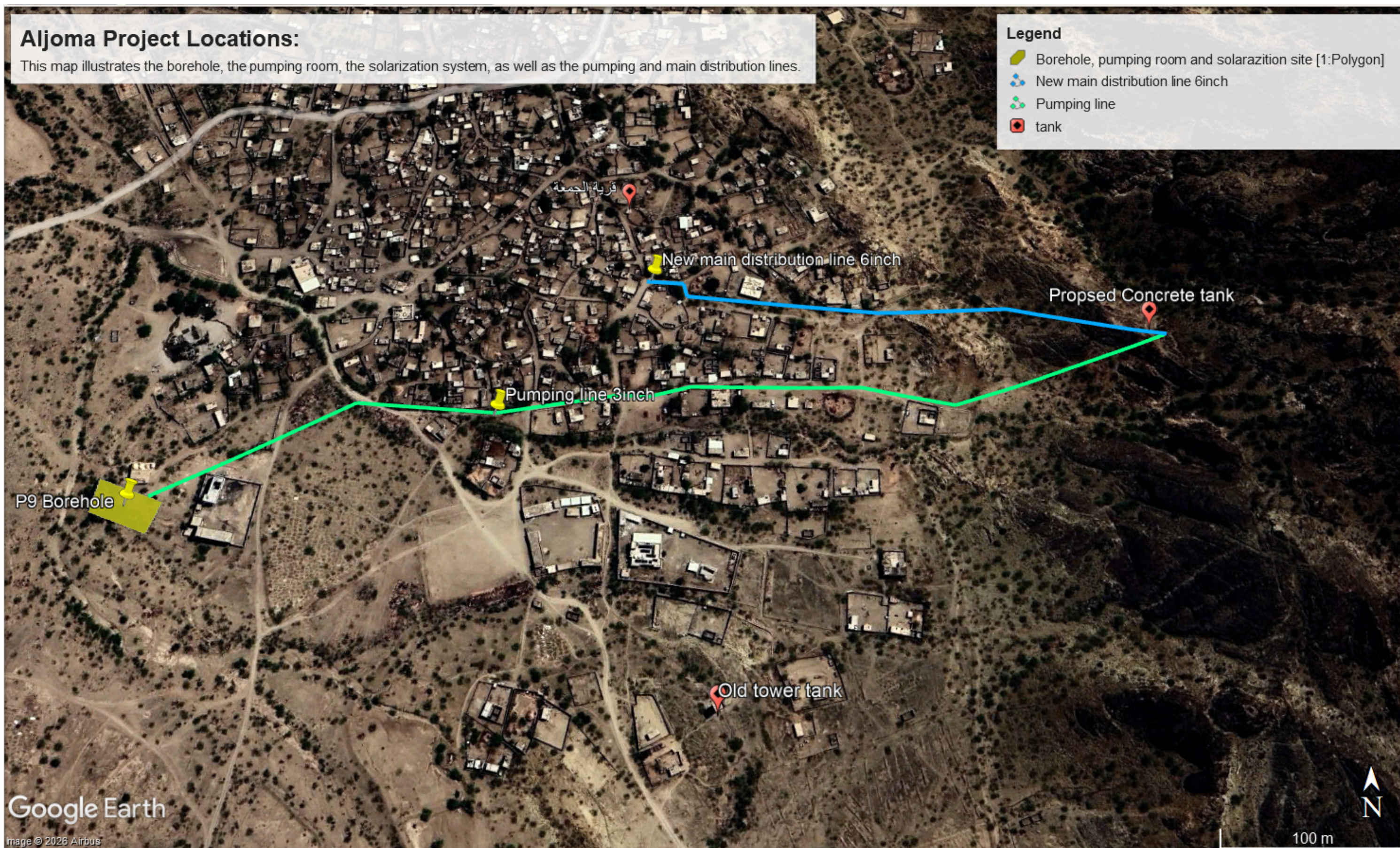
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	GROUND CONCRETE TANK ROOF DETAILS	SPRY - WASH Sector	First Draft		A1-23
		Project Location:	Project Name:	Approved by:	Project No:		
		MOCHA DISTRICT - TAIZ GOV	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date		
					08/01/2026		
					Paper Size:	A3	
					Scale	As Shown	

Aljoma Project Locations:

This map illustrates the borehole, the pumping room, the solarization system, as well as the pumping and main distribution lines.

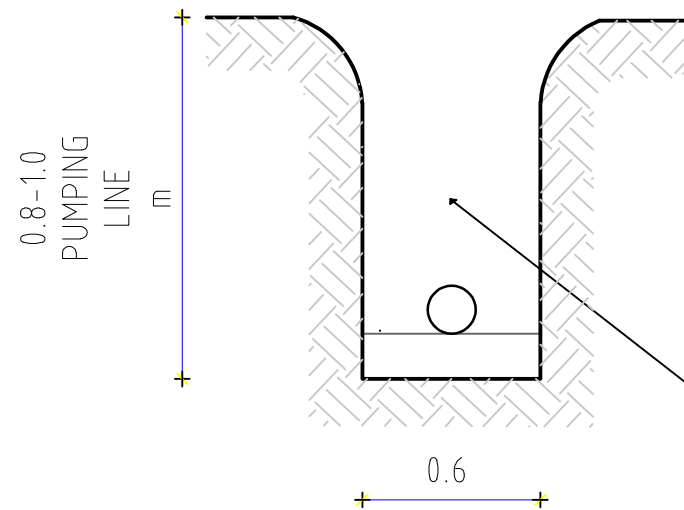
Legend

-  Borehole, pumping room and solarization site [1:Polygon]
-  New main distribution line 6inch
-  Pumping line
-  tank



Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	WATER NETWORK Map for all villages	SPRY - WASH Sector	First Draft		A1-24
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	

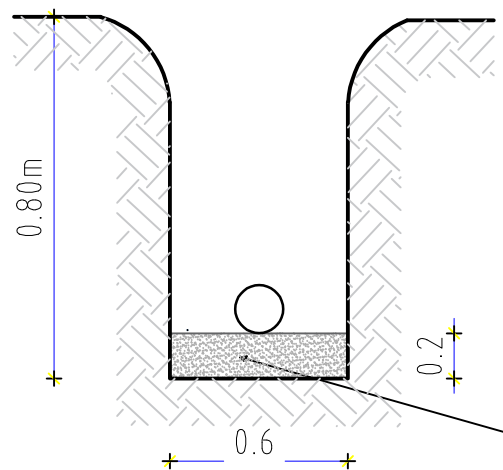
Step 01



Excavation details
تفاصيل الحفر

Drilling is carried out according to the specified dimensions ,with a depth of no less than 1.2m and a width suitable for installing pipes of no less than 50cm.
يتم الحفر بحسب الابعاد المحدد عمق لا يقل عن ١,٢ م والعرض المناسب لتركيب المواسير لا يقل عن 60 سم.

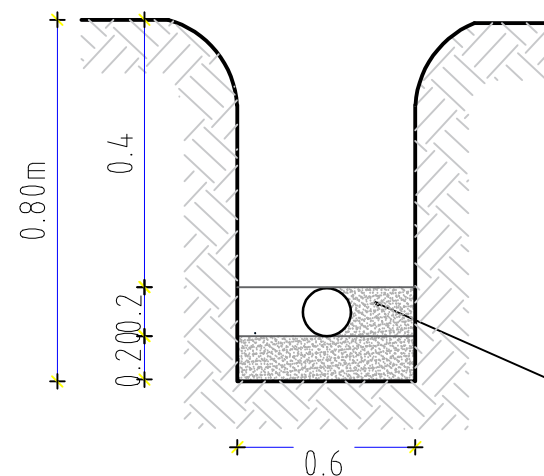
Step 02



Details for start Installation
تفاصيل بداية التركيب

Sand or soft soil is placed under the pipe with a thickness of no less than 15 cm, up to the middle of the pipe, and compact it with your foot.
يتم وضع الرمل أو التراب الناعم تحت الانبوب بسماكة لا تقل عن ١٥ سم حتي منتصف الانبوب والدك عليه بالقدم.

Step 03

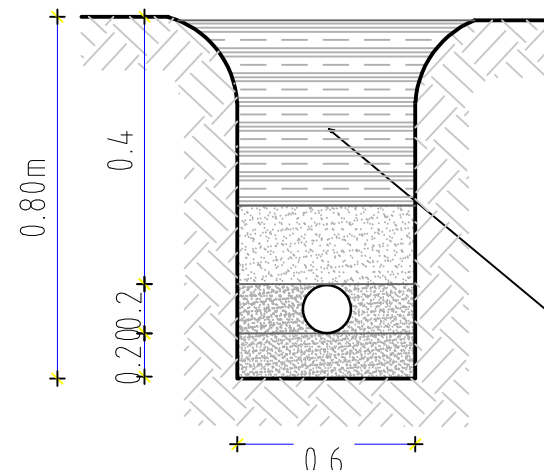


Details Backfilling Around the Pipe
تفاصيل الردم حول الانبوب

The pipes are placed after connecting them, testing the pumping into them, and checking that no water is leaking from them. Then backfilling with sand or soft soil is completed around and over the pipe with a thickness of no less than 20 cm.

يتم وضع الانابيب بعد توصيلها وتجربة الضخ فيها وفحص عدم تسريب مياه منها ومن ثم يتم اكمال الردم بالرمل او التربه الناعم حول و فوق الانبوب بسماكة لا تقل عن 20 سم.

Step 04



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

Backfilling with soft soil over the pipes 30 cm with tamping, and then the resulting excavation is backfilled in layers with tamping every 25 cm to prevent the backfill from collapsing in the future.

يتم الردم بتربة ناعمة فوق الانابيب ب 30 سم مع الدك وبعدها يتم الردم من ناتج الحفر علا طبقات مع الدك كل 25 سم لمنع هبوط الردم في مستقبل

Details of excavation, backfilling, water network and pumping line installation

تفاصيل الحفر والردم وتركيب شبكة التوزيع وخط الضخ

Prepared by:

Funded by:

Project Title:

Drawing Title:

Designed and reviewed by:

Status:

North:

Drawing No:



REHABILITATIONS OF
ALJUMAA WATER PROJECT

EXCAVATION, BACKFILL, WATER NETWORK DETAILS

Project Location:

Project Name:

Approved by:

Project No:

Paper Size:

A3



A1-25

MOCHA DISTRICT -

RAINS OF RESILIENCE 2026

SPRY - WASH Sector

Date

08/01/2026

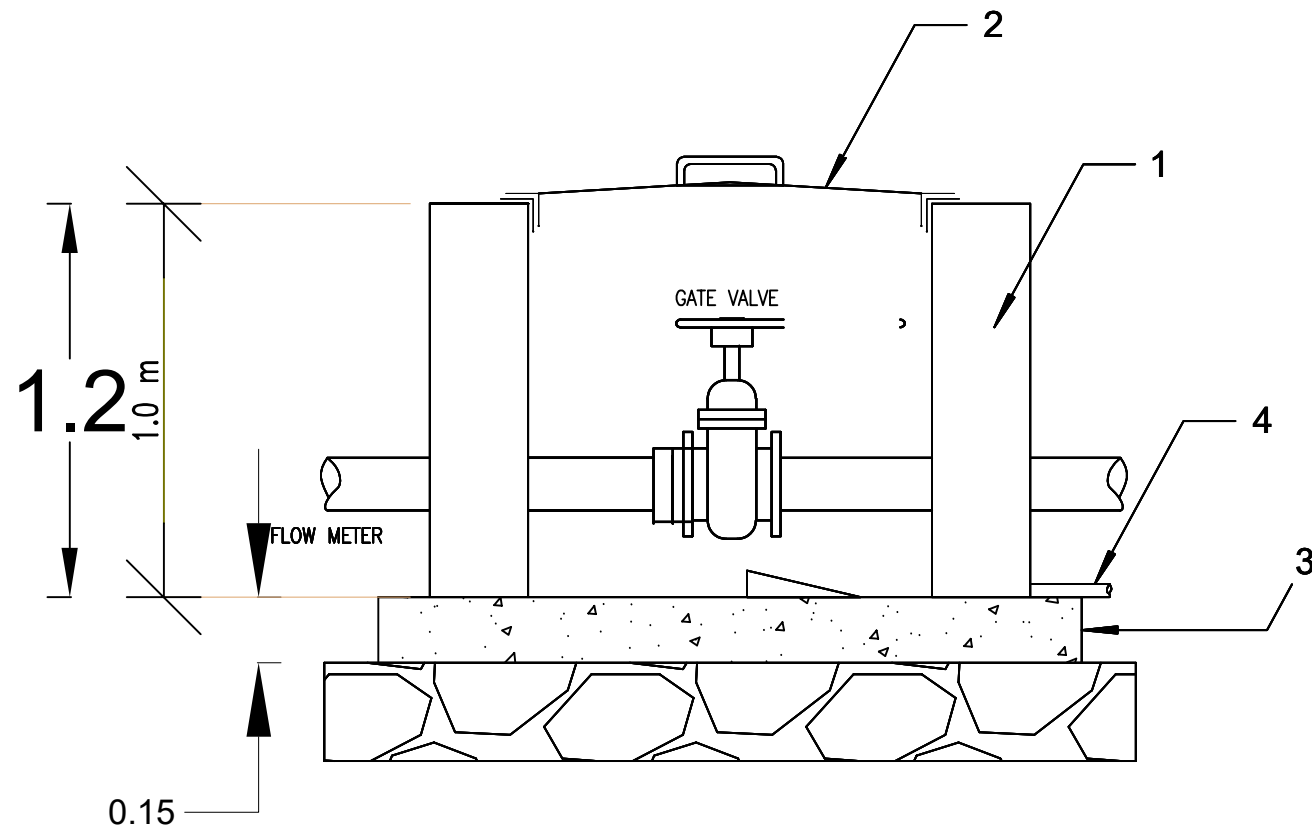
Scale

As Shown

Notes :

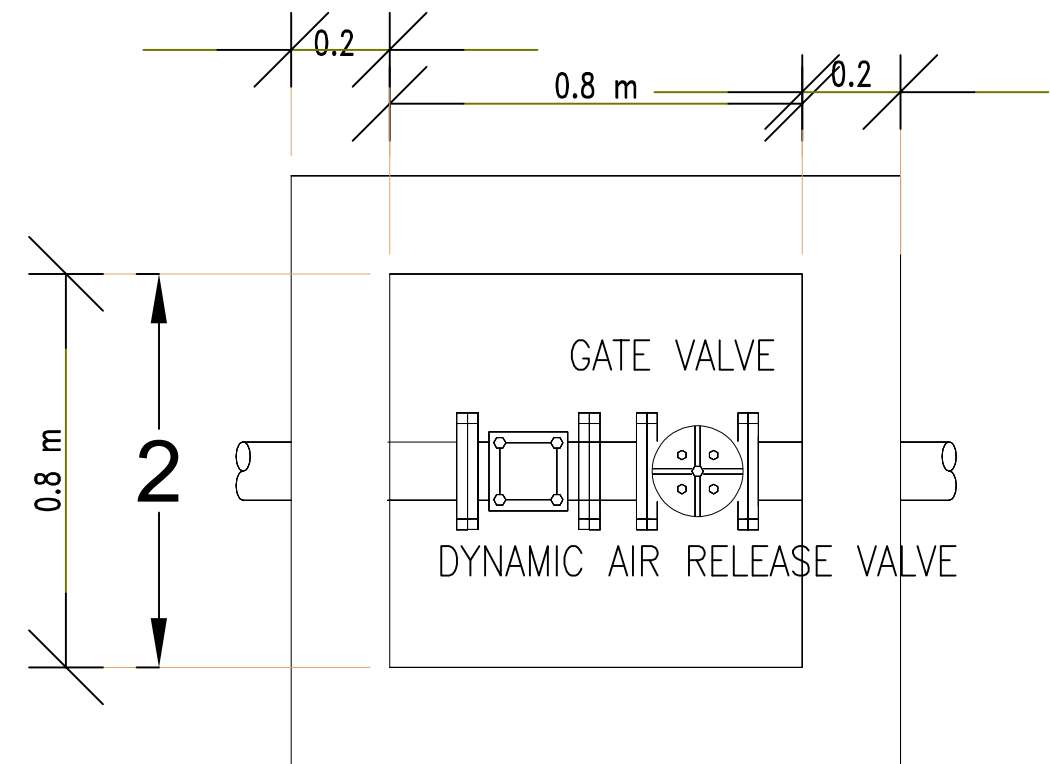
Length of the chamber will be adjusted according to the dimensions of the valves , connections and fitting so the valve shall be positioned with enough space for removing and reinstallation during maintenance .

All dimensions in meter.



Elevation View Scale 1:50

مسقط عرضي



Plan View Scale 1:50

مسقط أفقي

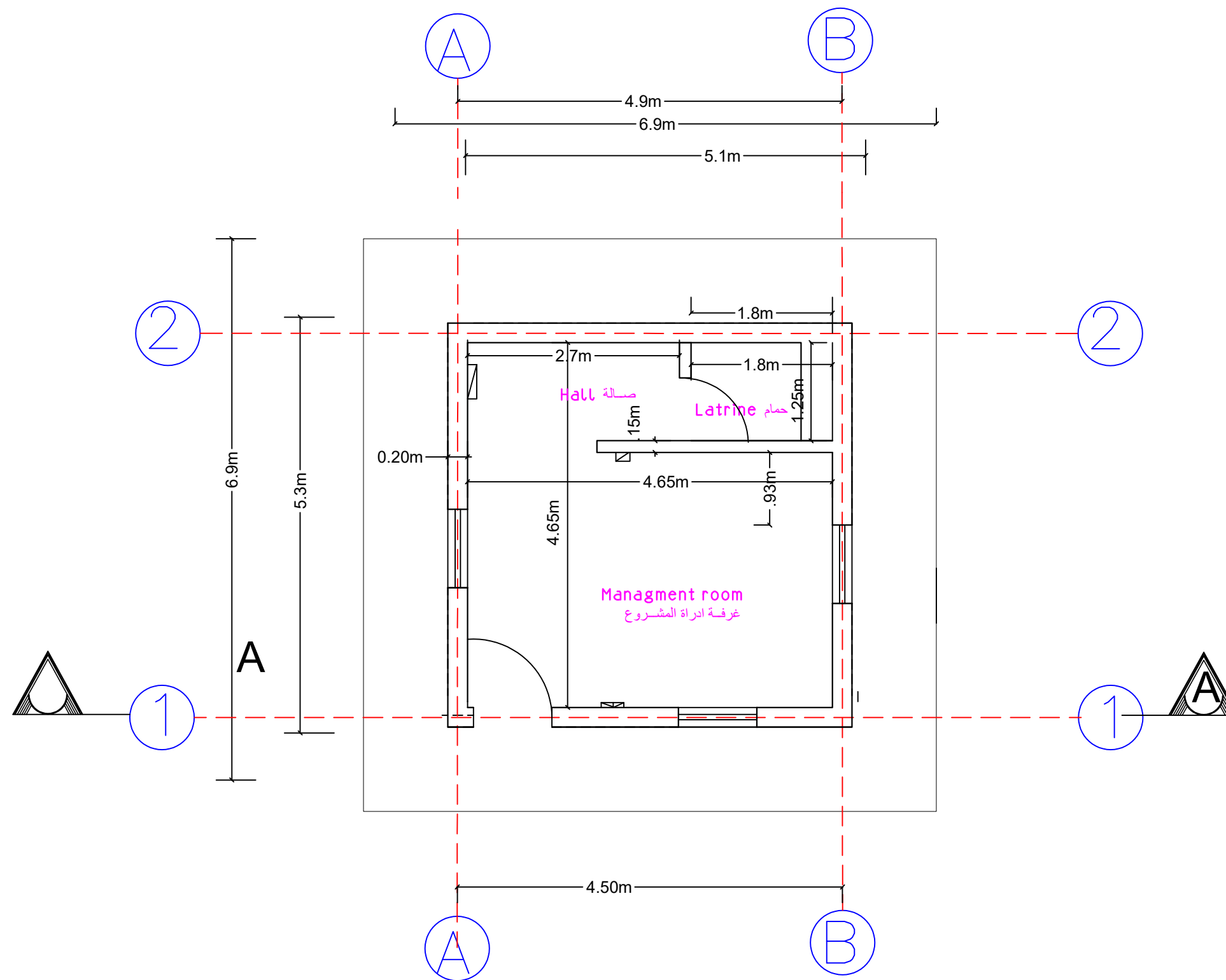
1.8

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 .

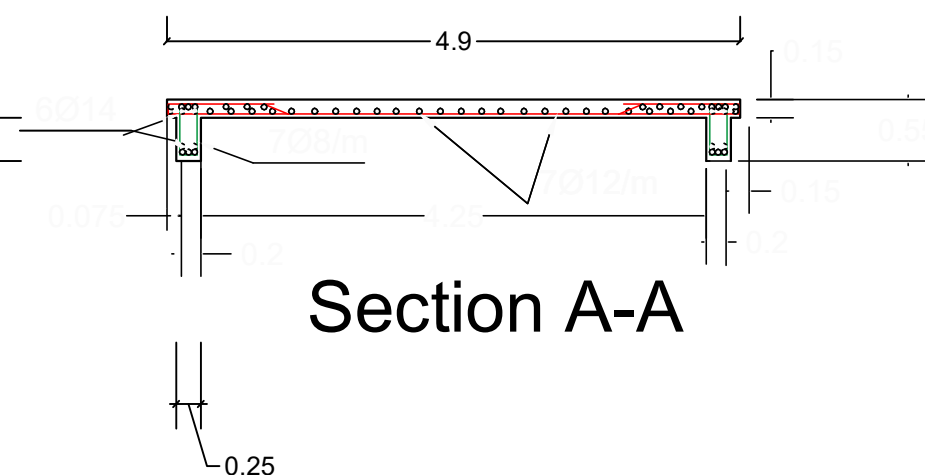
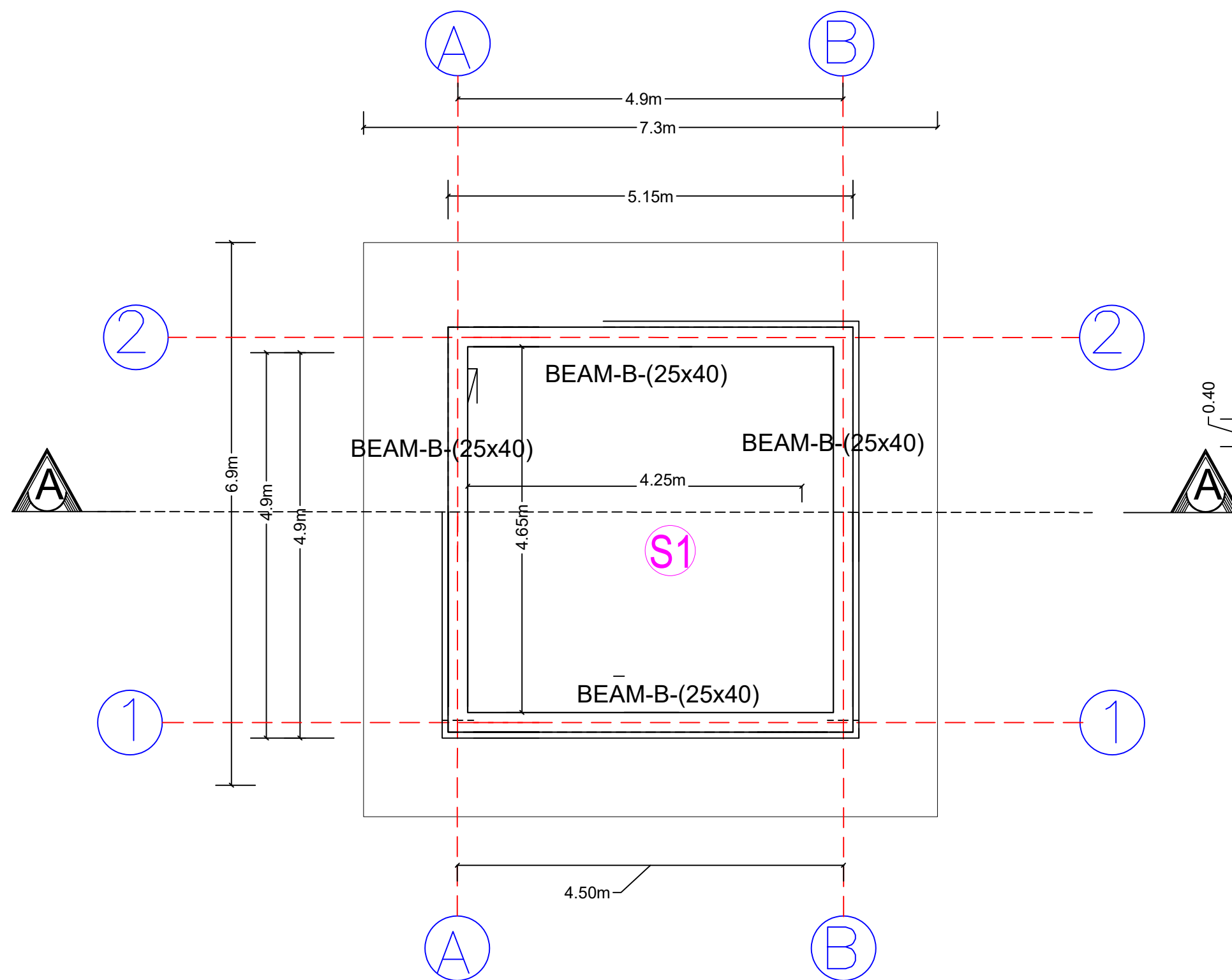
Valve Room Details

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	VALVE ROOM DETAILS	SPRY - WASH Sector	First Draft		A1-26
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT –	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	



مسقط افقي غرفة ادارة المشروع 1:100 Plan Managment room PLAN

Prepared by:  Samaritan's Purse INTERNATIONAL RELIEF	Funded by:  Samaritan's Purse INTERNATIONAL RELIEF	Project Title: REHABILITATIONS OF ALJUMAA WATER PROJ Project Location: MOCHA DISTRICT - TAIZ GOV.	Drawing Title: Managment room PLAN Project Name: RAINS OF RESILIENCE 2025	Designed and reviewed by: SPRY - WASH Sector Approved by: SPRY - WASH Sector	Status: Final Draft Project No: Date: 29/04/2025 Paper Size: A3 Scale: As Shown	North: 	Drawing No: A1-27
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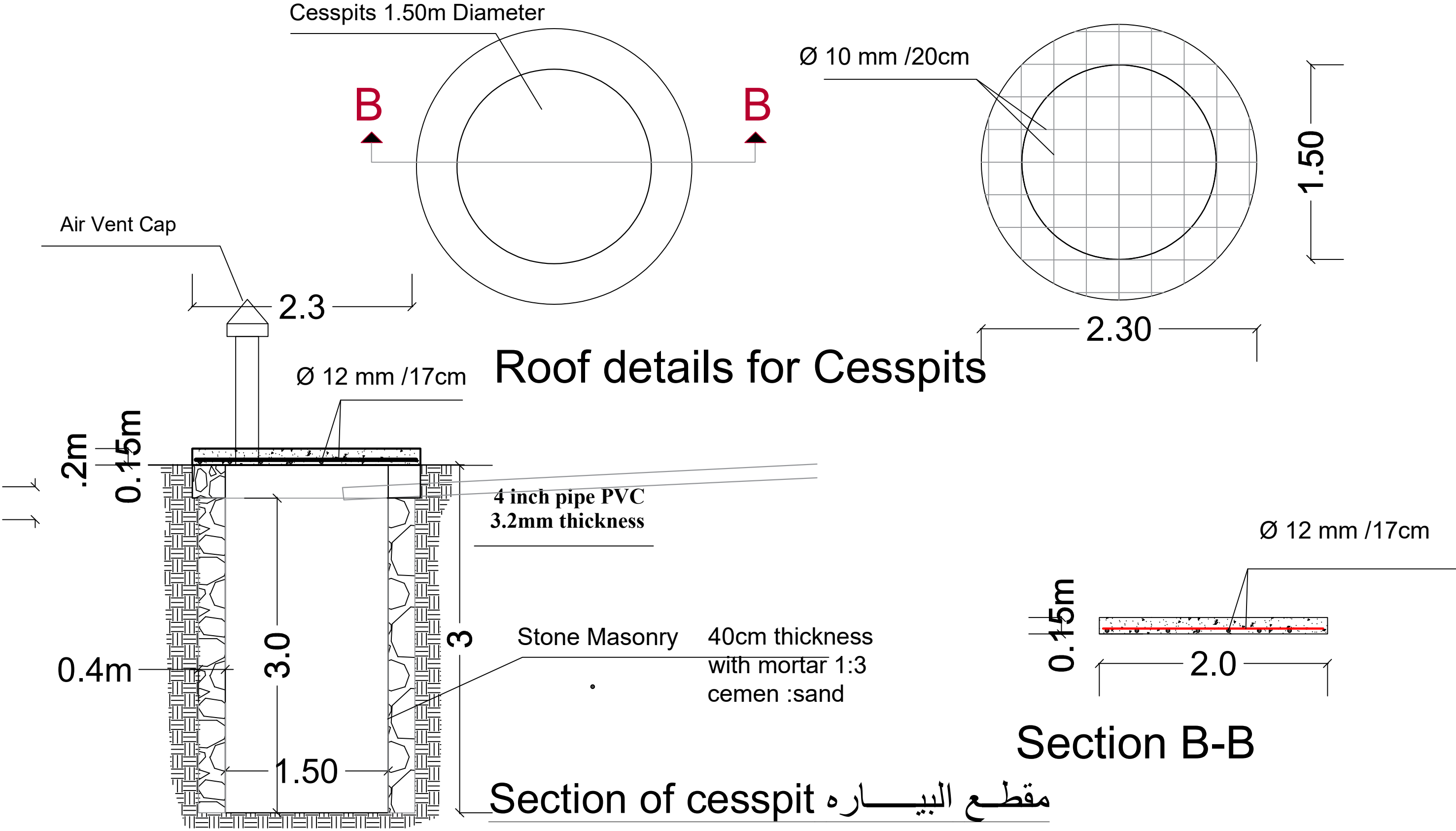
Slab reinforcement table

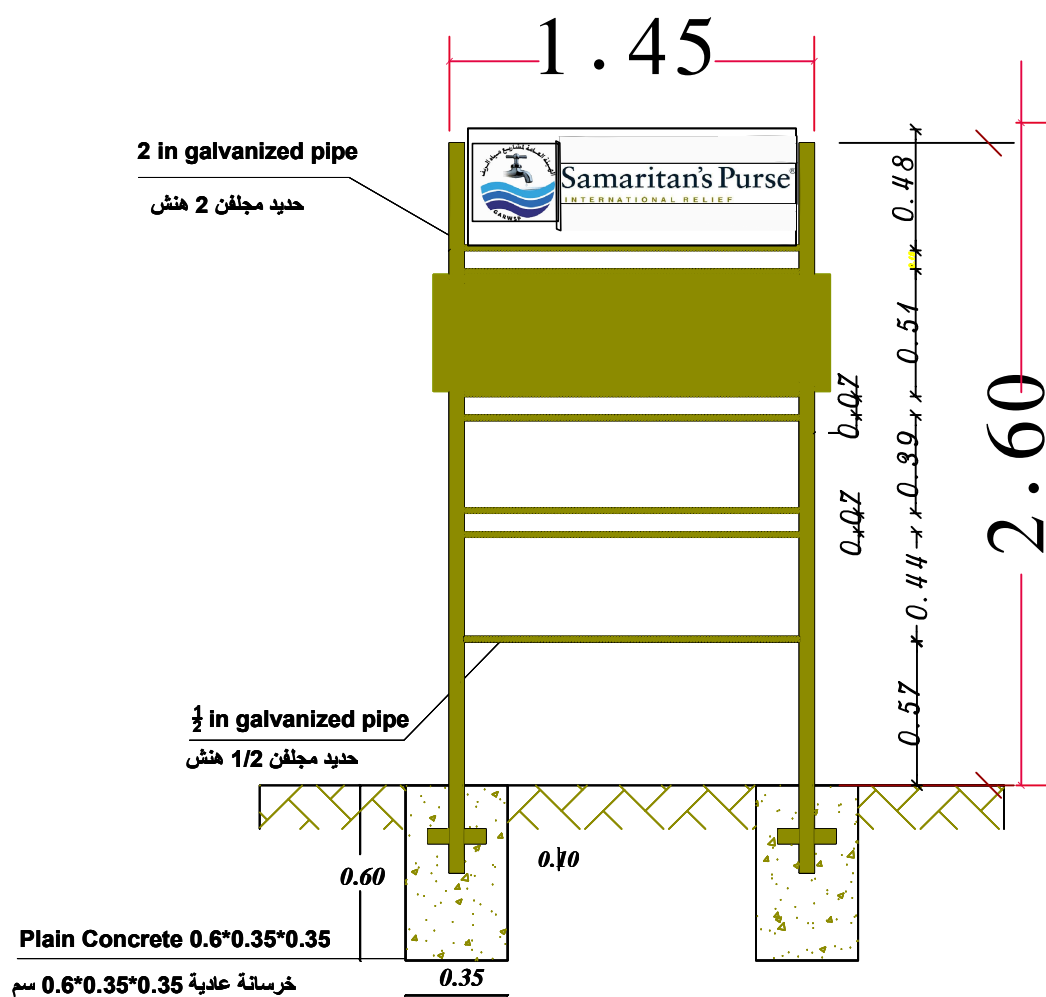
الرمز	سمائة البلاطة سم Thickness Slab cm	التسليح	
		م / فرش	م / غطاء
S1	15	7φ12/m	7φ12/m

Plan Slab reinforcement Managment room PLAN

مسقط انشائي لسقف غرفة ادارة المشروع

Drawing for Cesspit latrine managment room

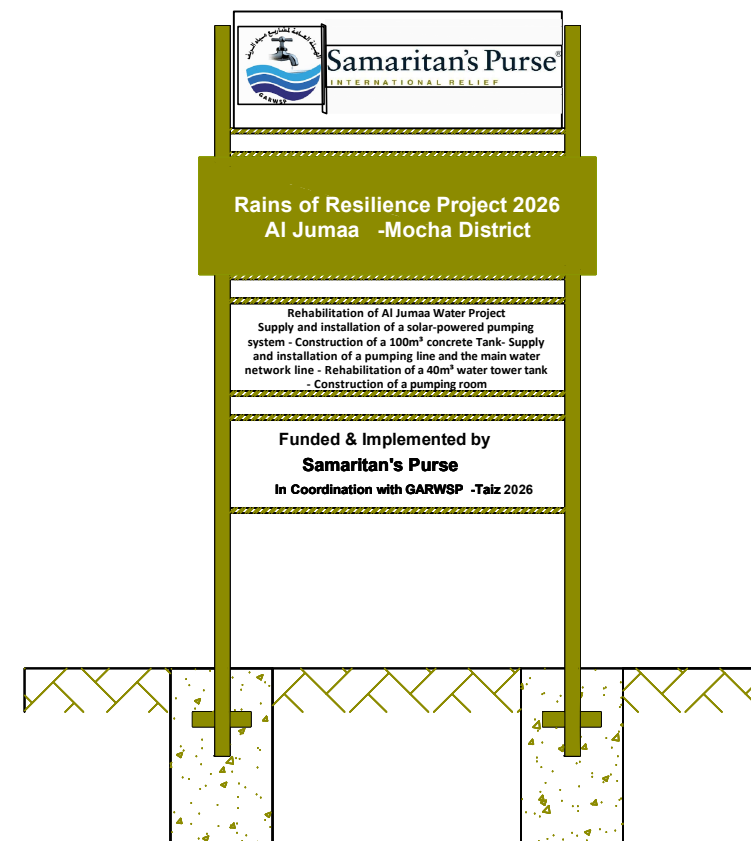




Dimensions Details
تفاصيل الأبعاد



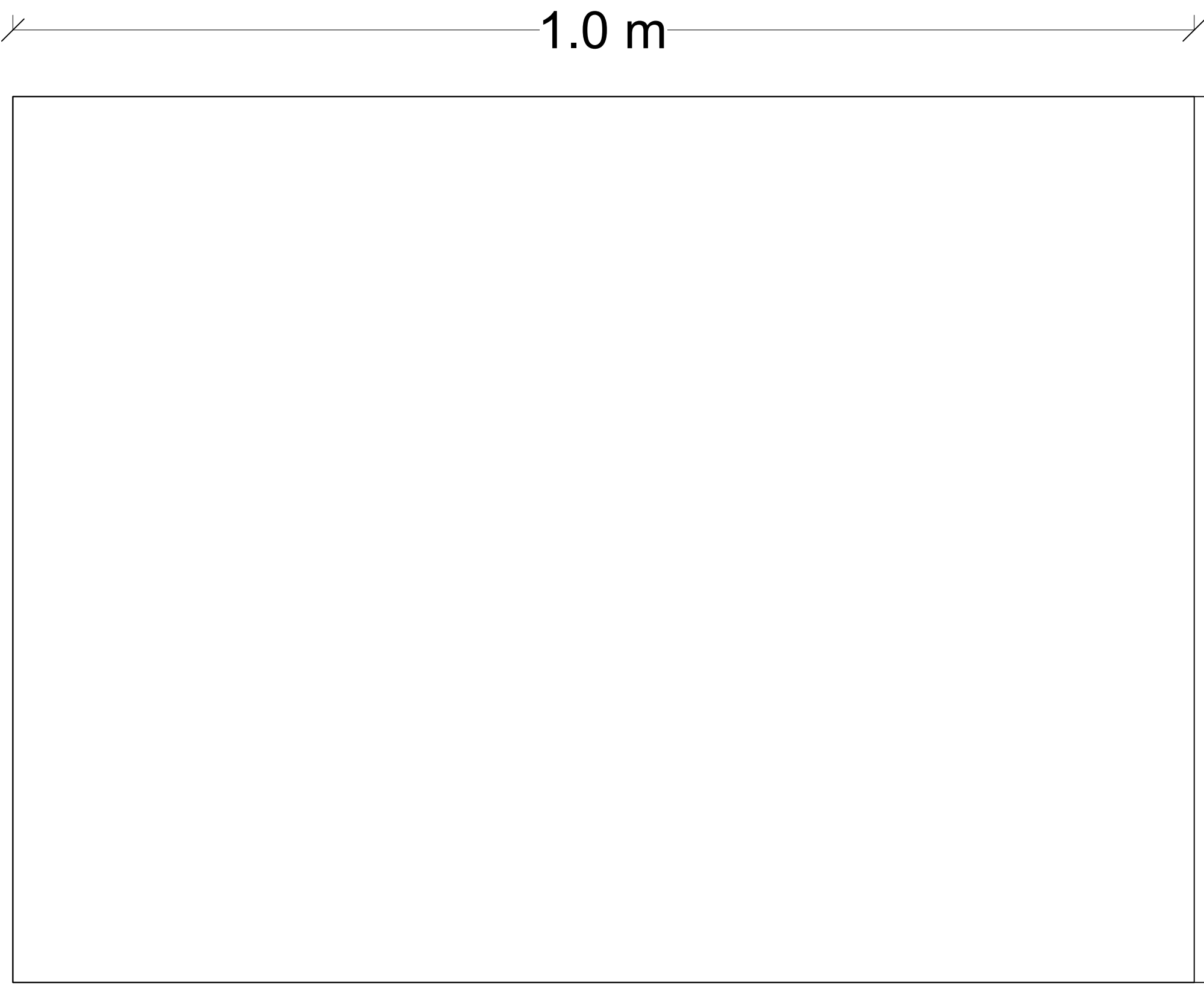
Plate Front side Elevation
واجهة اللوحة الأمامية



Backside Elevation
واجهة اللوحة الخلفية

ملاحظة : محتوى اللوحة المعدنية والرخامية سيتم تحديده لاحقا اثناء العمل
Note : The content of the metal and marble plate will be determined later during the work.

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	METAL SIGN FOR PROJECT COMPLETION	SPRY - WASH Sector	First Draft		A1-31
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT -	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	Scale	
					08/01/2026	As Shown	



DETAILS MARBLE PAINTING

تفاصيل اللوحة الرخامية

ملاحظة : محتوى اللوحة المعدنية والرخامية سيتم تحديده لاحقا اثناء العمل

Note: The content of the metal and marble plate will be determined later during the work.

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:				North:	Drawing No:
		REHABILITATIONS OF ALJUMAA WATER PROJECT	PAINTED SIGN FOR PROJECT COMPLETION	SPRY - WASH Sector	First Draft					A1:32
		Project Location:	Project Name:	Approved by:	Project No:		Paper Size:	A3		
		MOCHA DISTRICT – TAIZ GOV	RAINS OF RESILIENCE 2026	SPRY - WASH Sector	Date	08/01/2026	Scale	As Shown		