

DESIGNS AND DRAWINGS.

HESSE SALEM WATER PROJECT - MOCHA DISTRICT - TAIZ GOVERNORATE

PROJECT TITLE:

RAINS OF RESILIENCE

DEVELOPED BY:



FUNDED BY:



REHABILITATION OF HASSI SALEM 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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		REHABILITATIONS OF HESSE SALEM WATER PROJECT	Table of contents	SPRY - WASH Sector	Final Draft				A1-01
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	Scale:		
		MOCHA DISTRCT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	03/07/2025	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.

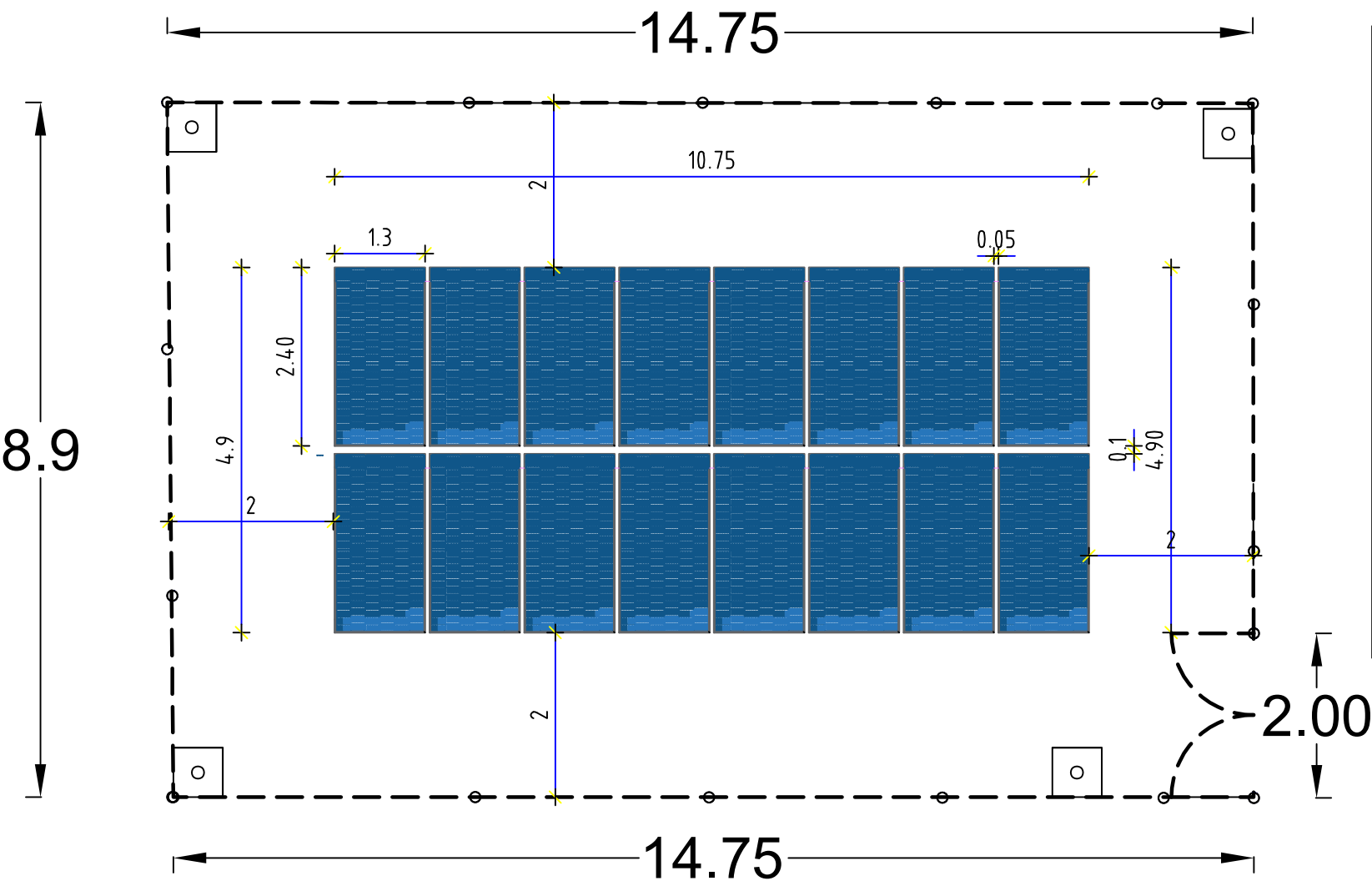
ملاحظات عامة:

- 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 الاخشاب 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 الاعمدة والجسور المعلقه وجسم الخزان من الخارج يجب عمل لها تكييس باكياس شلتيه حيش خاصة بعملية الرش ويتم تشبييعها 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 ويجيب 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 والتلايبس يلزم ان يكون وهطي درجه اولي والكري كساره رقم واحد من الاحجار البازلتيه و غير مخلوط بالشوائب التى تمتص المياه وتضعف قوة الخرسانه.

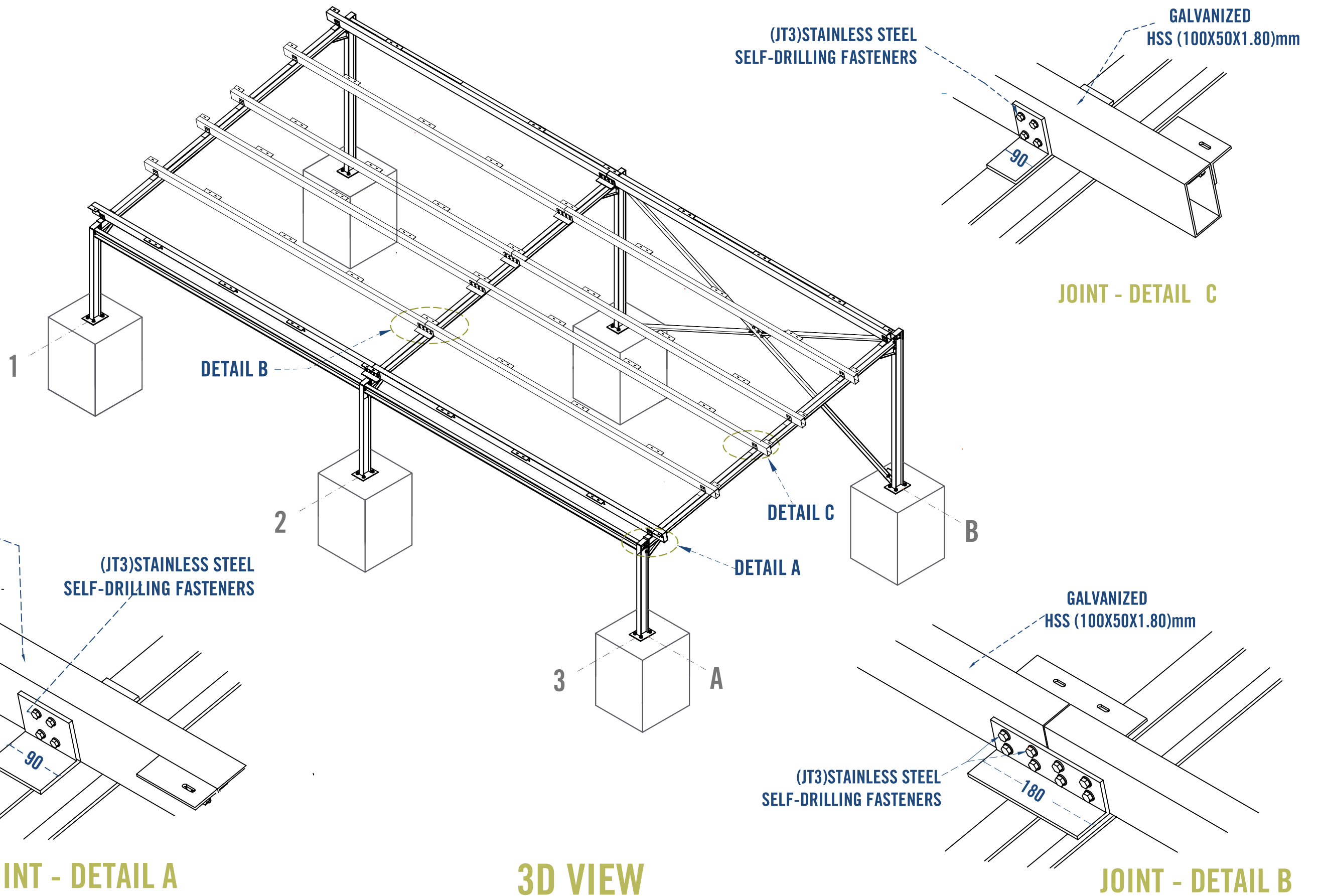
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		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
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Notes:

- 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 CC-TT

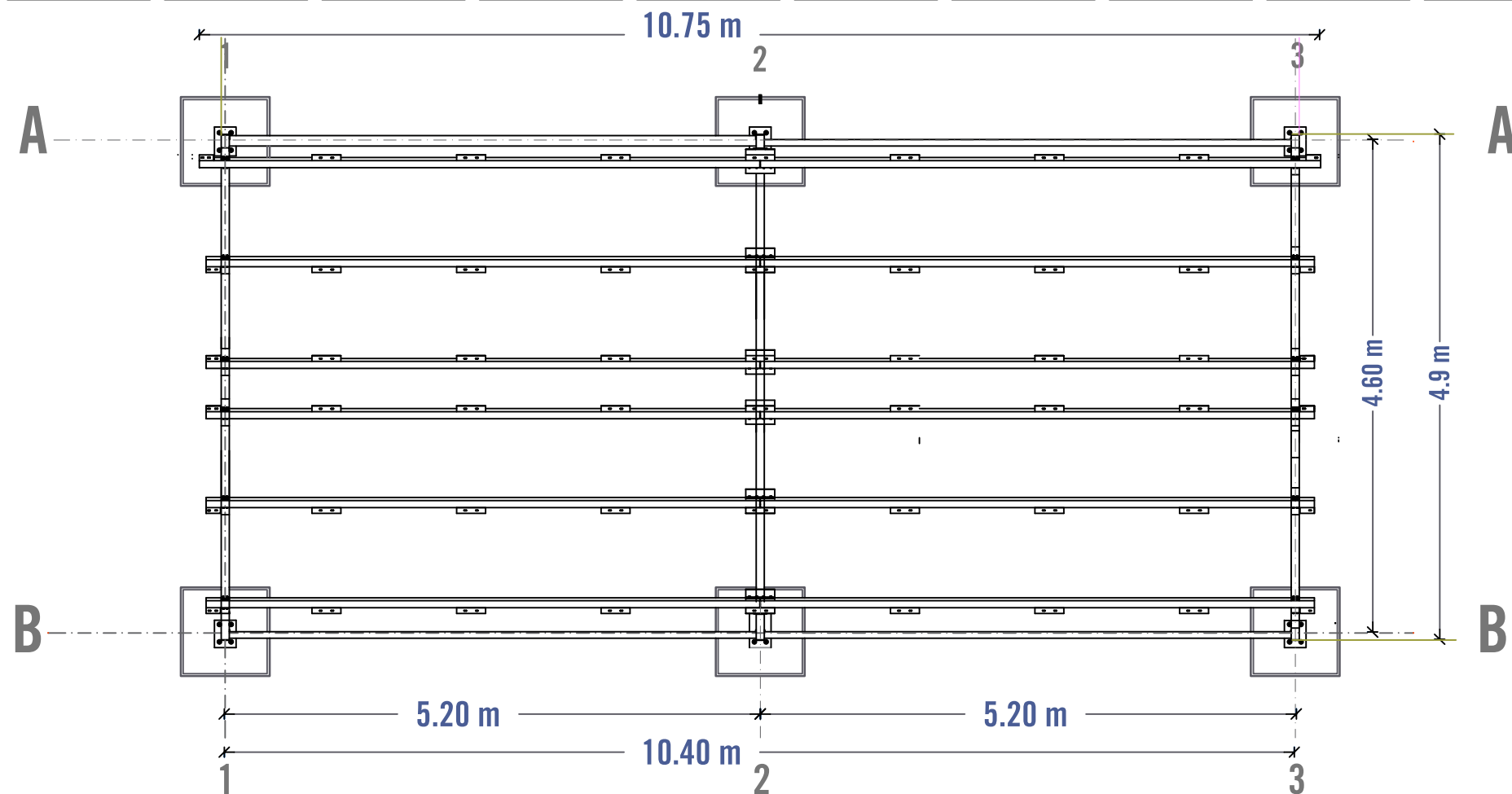


JOINT - DETAIL A

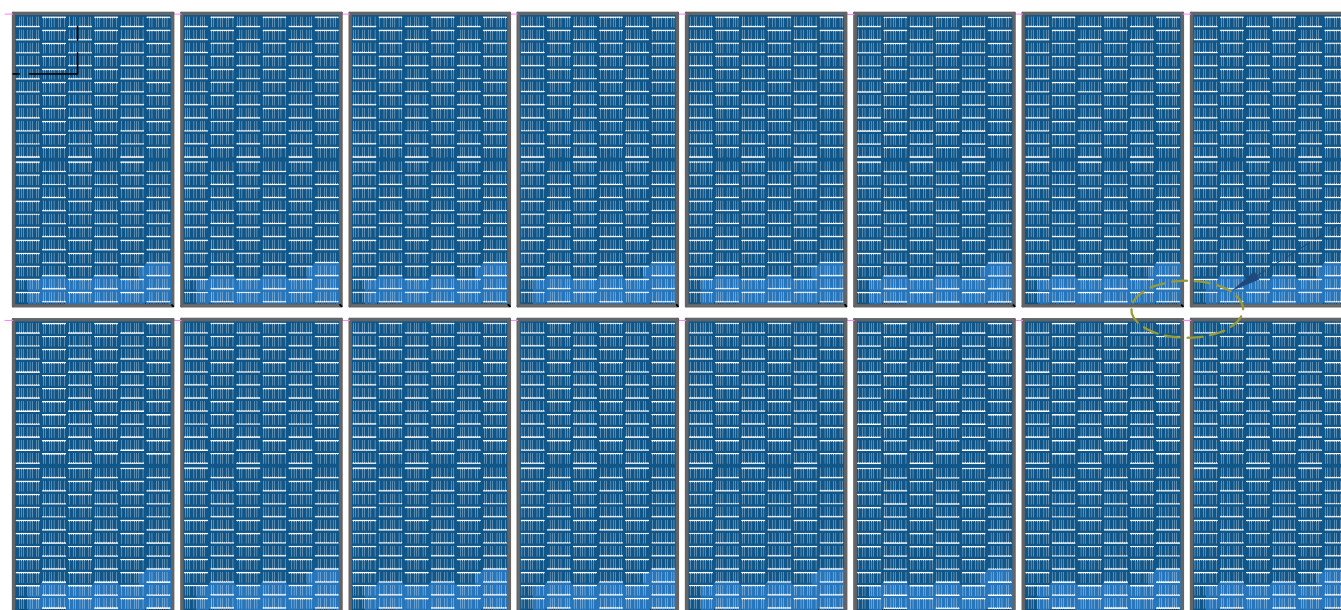
3D VIEW

JOINT - DETAIL B

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
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		MOCHA DISTRICT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
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FRAMING PLAN

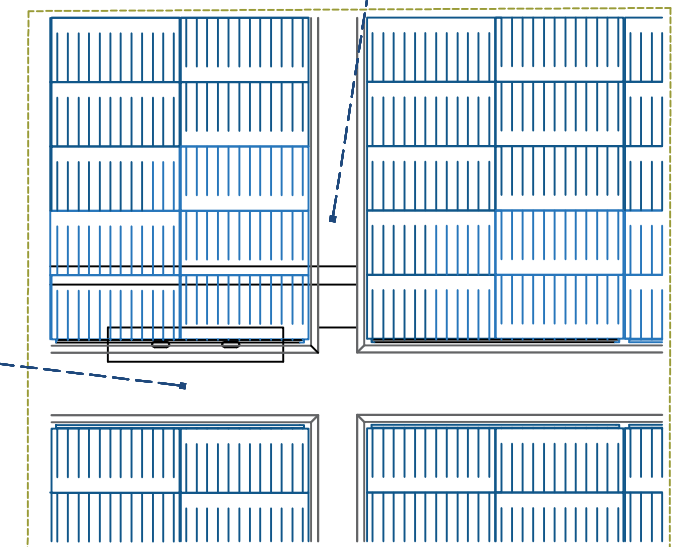


PLAN OF SOLAR PANEL ARRAY

DETAIL A

10cm vertically space between module

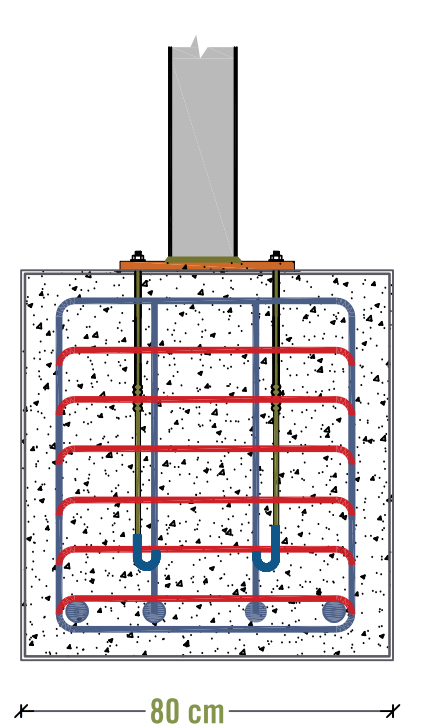
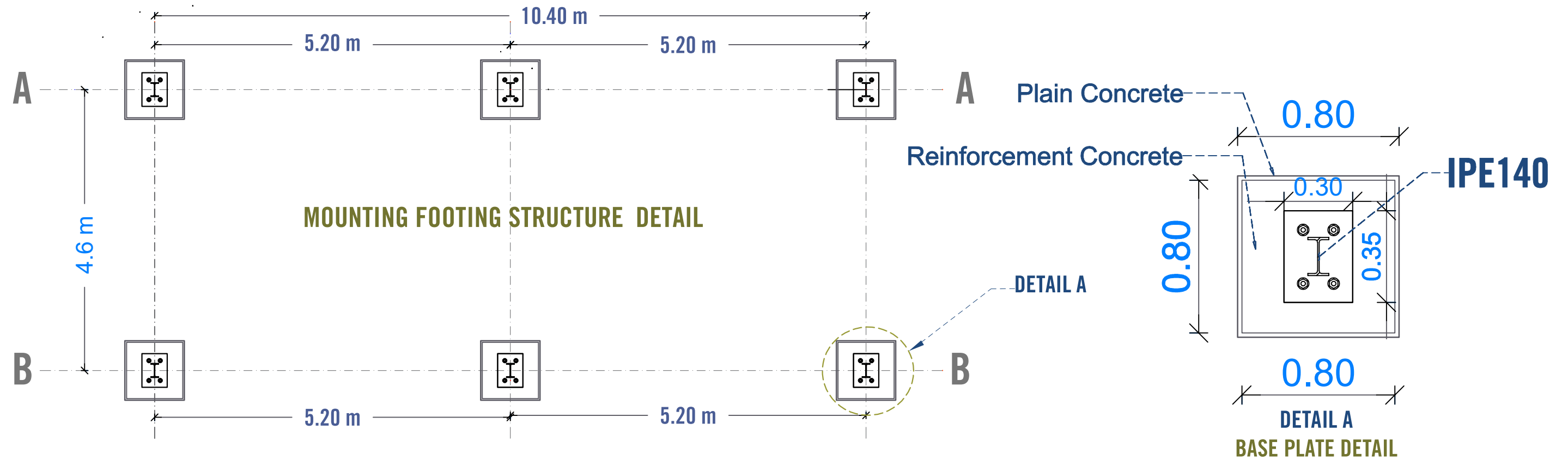
5cm horizontality space between module



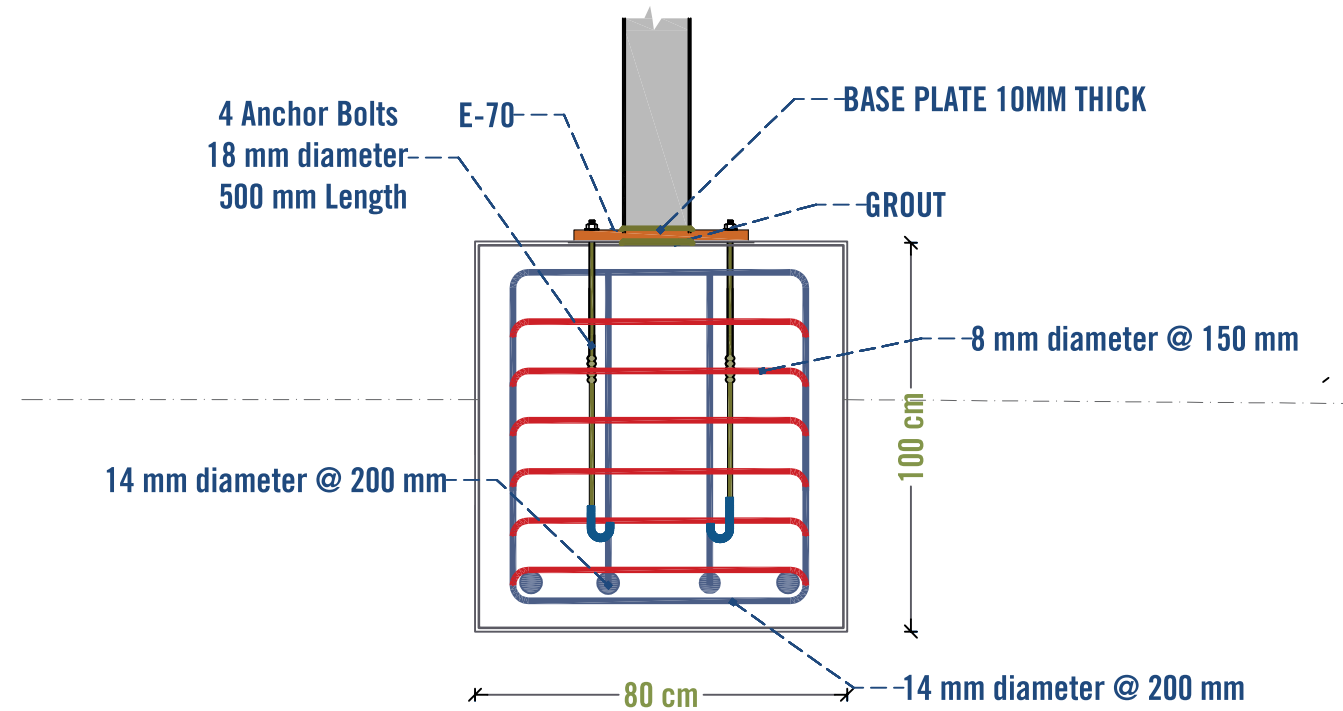
SOLAR PANEL DETAIL A

FULL FRAMING PLAN

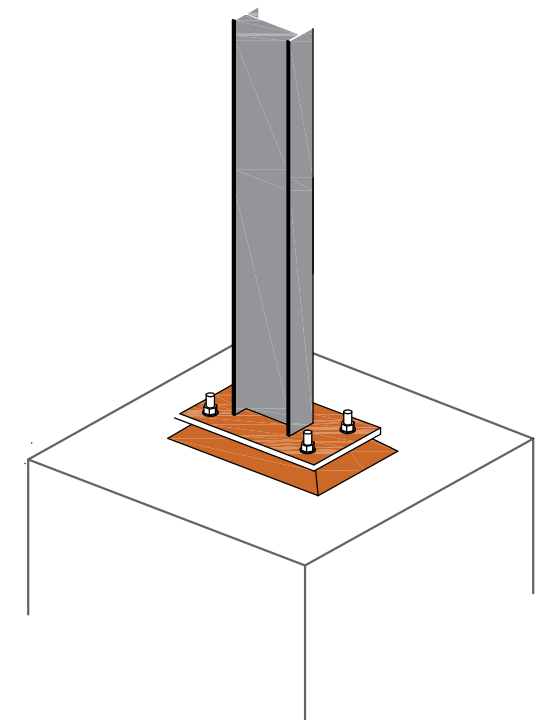
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		MOCHA DISTRICT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	03/07/2025	
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CONCRETE FOOTING DETAIL



BASE PLATE DETAIL



BASE PLATE DETAIL

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Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

SOLAR FOOTING STRUCTURAL DETAIL

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

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SPRY - WASH Sector

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Final Draft

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Scale

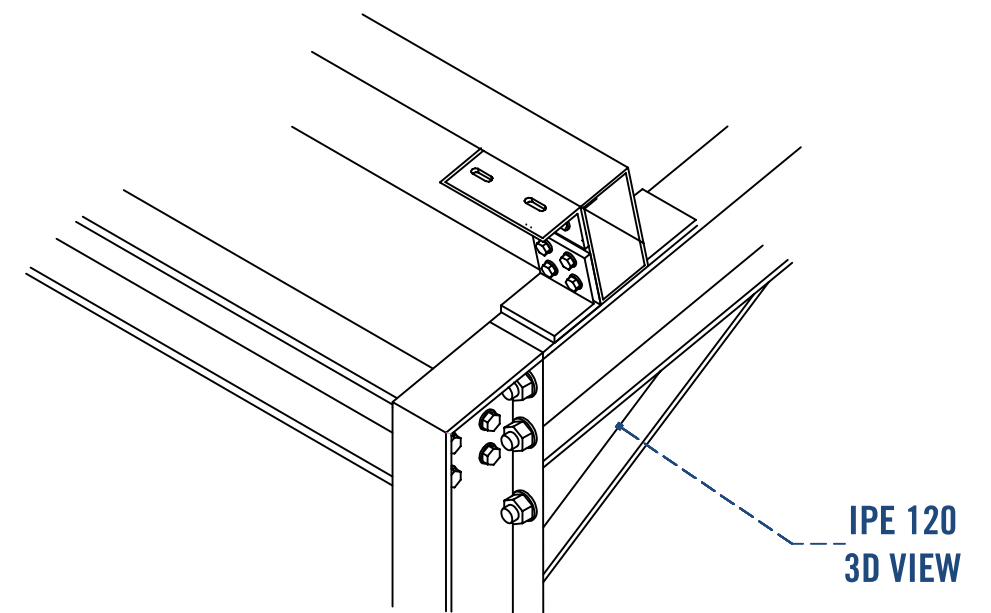
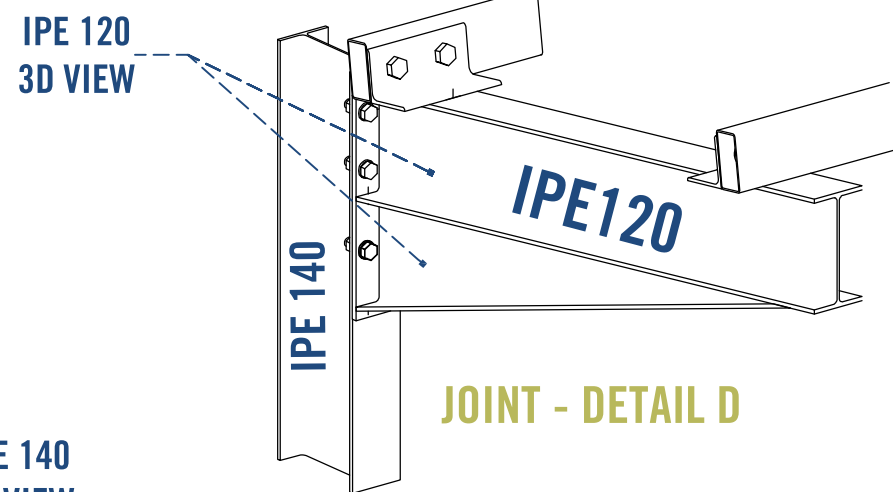
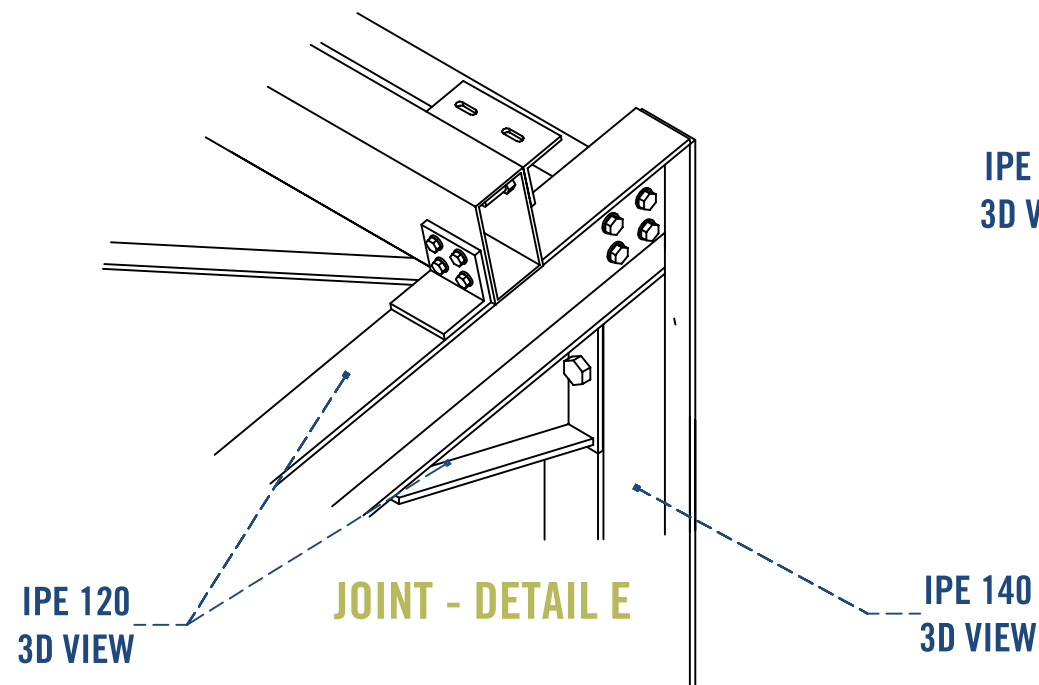
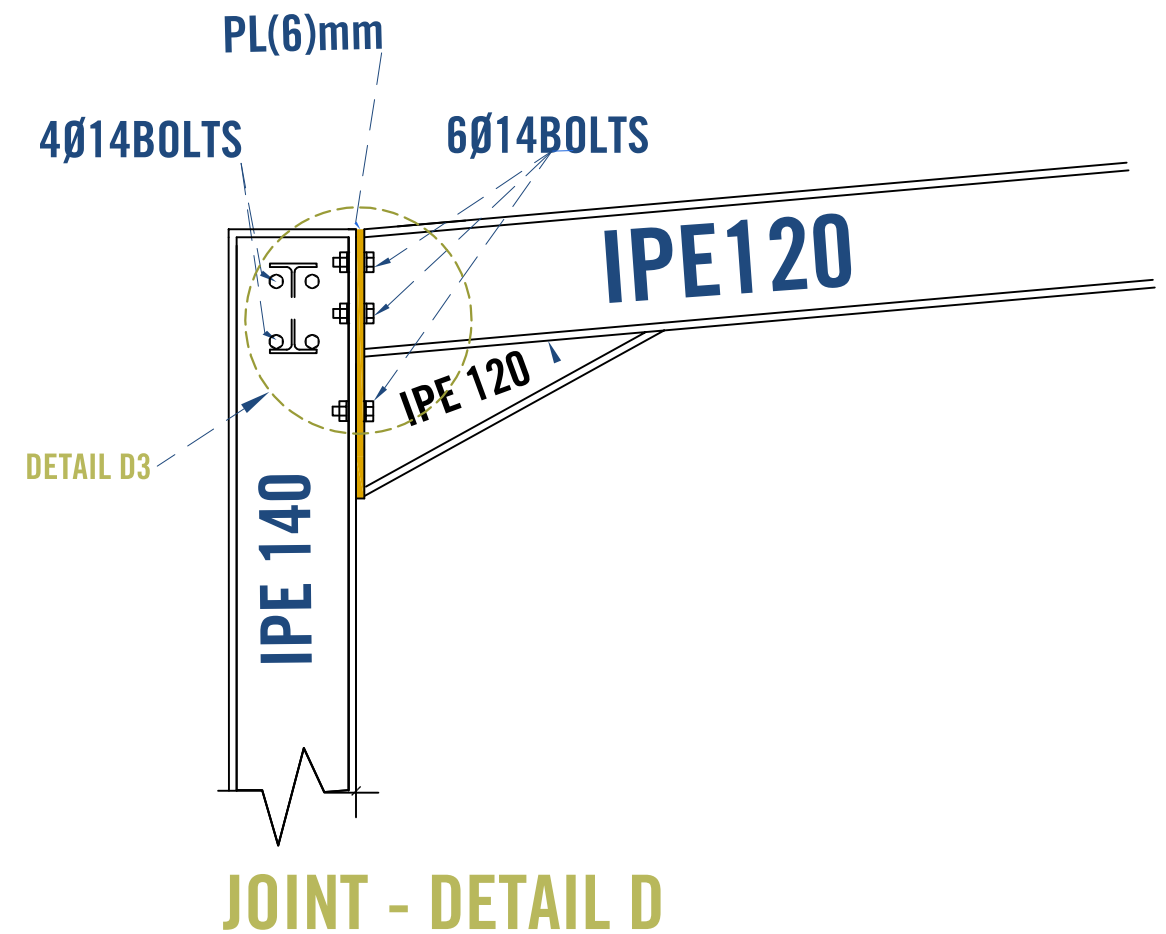
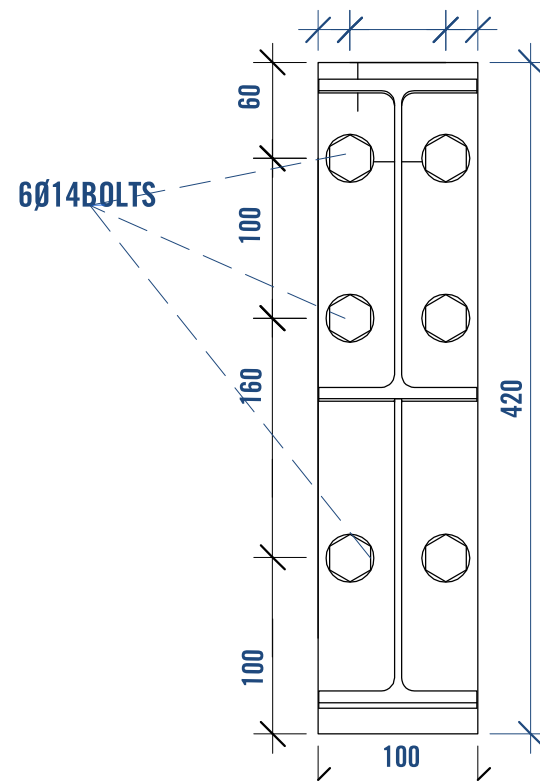
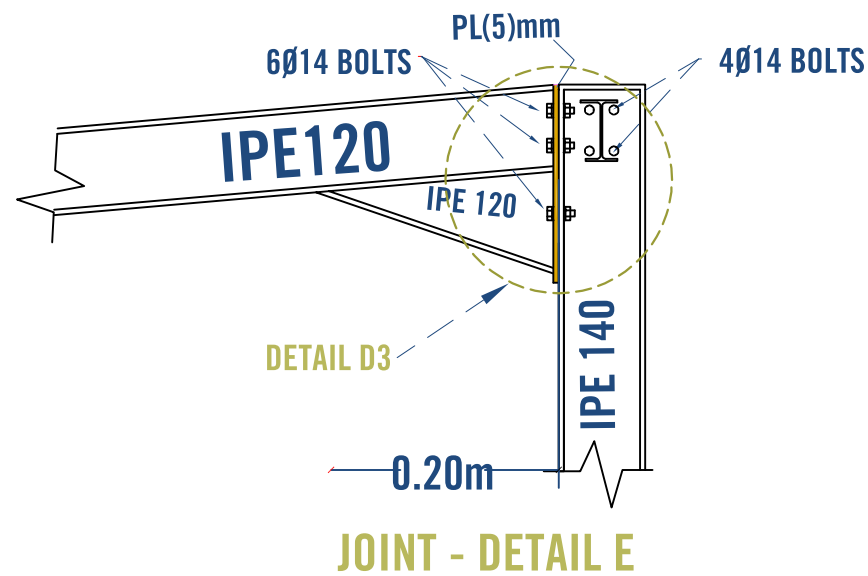
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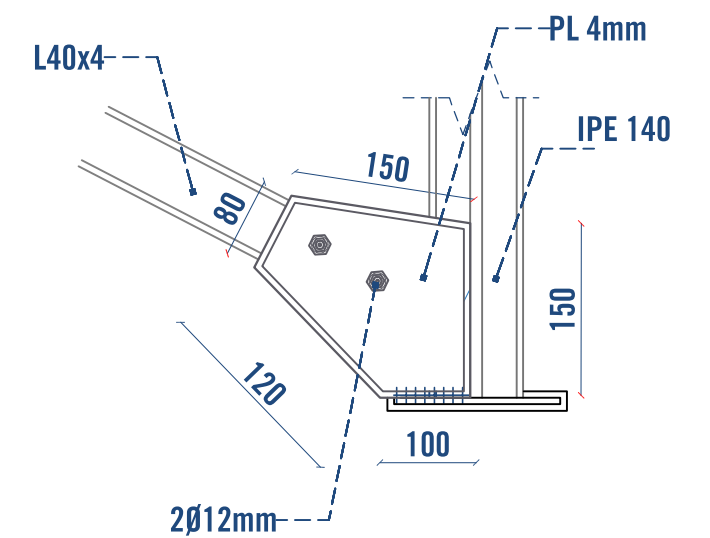
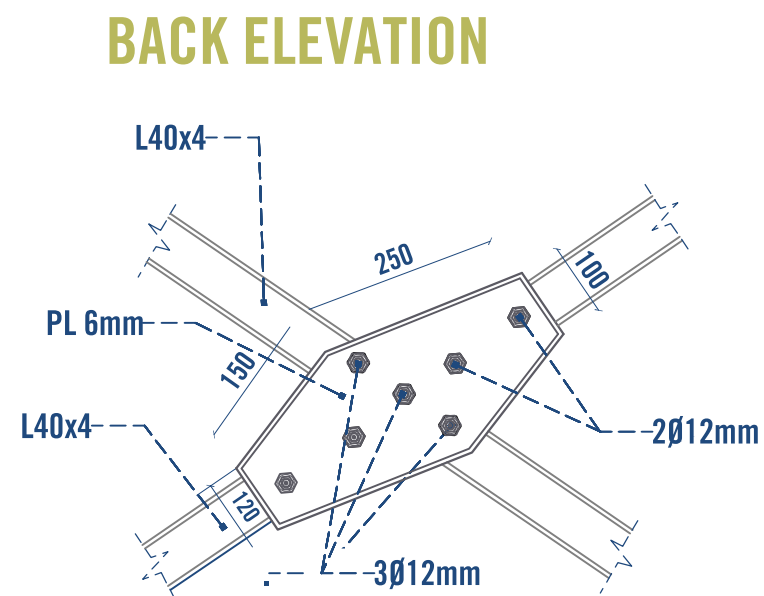
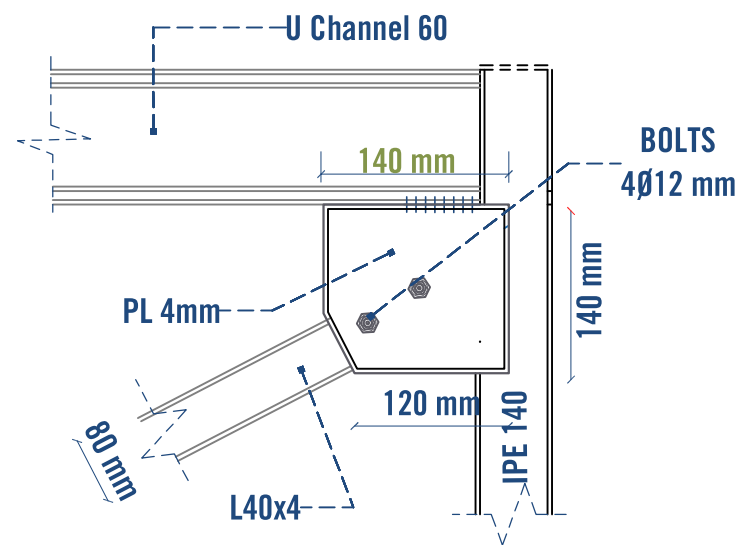
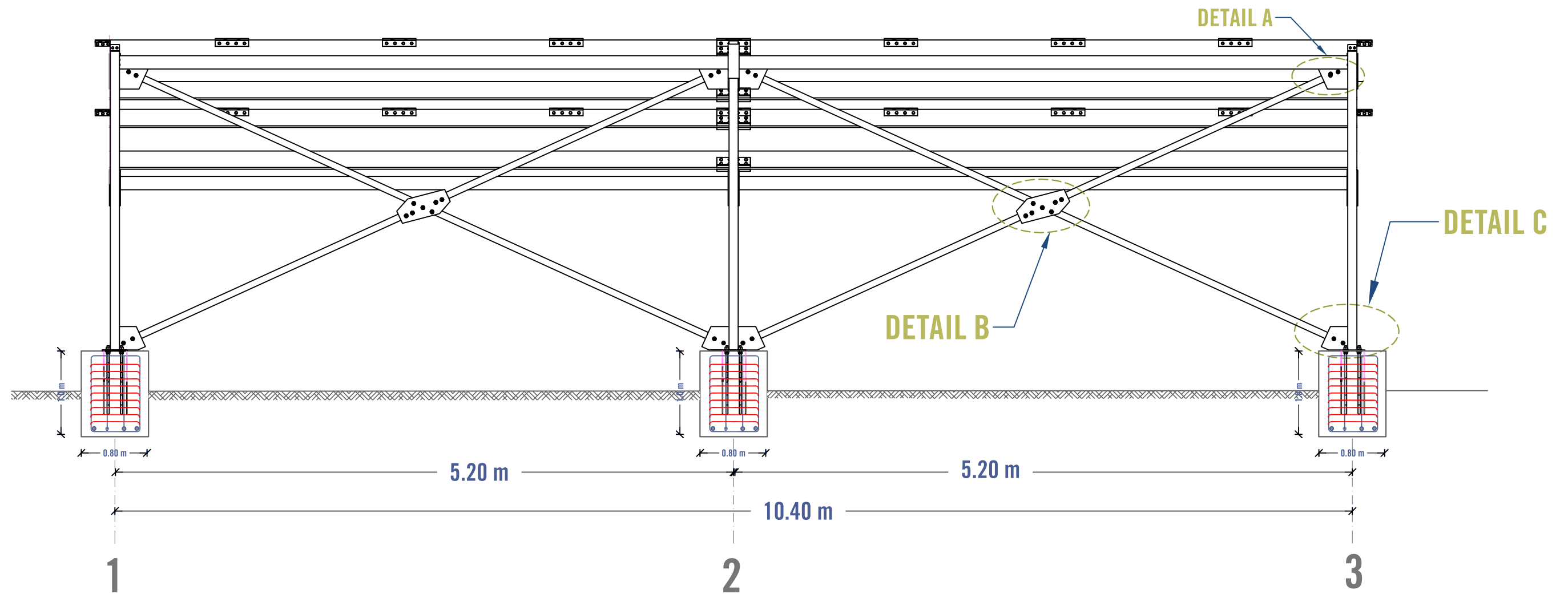
Drawing No:

A1-06



JOINT DETAIL

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		REHABILITATIONS OF HESSE SALEM WATER PROJECT	SOLAR MOUNT FRAME STRUCTURAL DETAILS	SPRY - WASH Sector	Final Draft					A1-08
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		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	03/07/2025	Scale	As Shown		



BACK ELEVATION

JOINT - DETAIL A

JOINT - DETAIL B

JOINT - DETAIL C

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

MOUNTING FRAME DETAILS

Project Name:

RAINS OF RESILIENCE 2025

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SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

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Scale

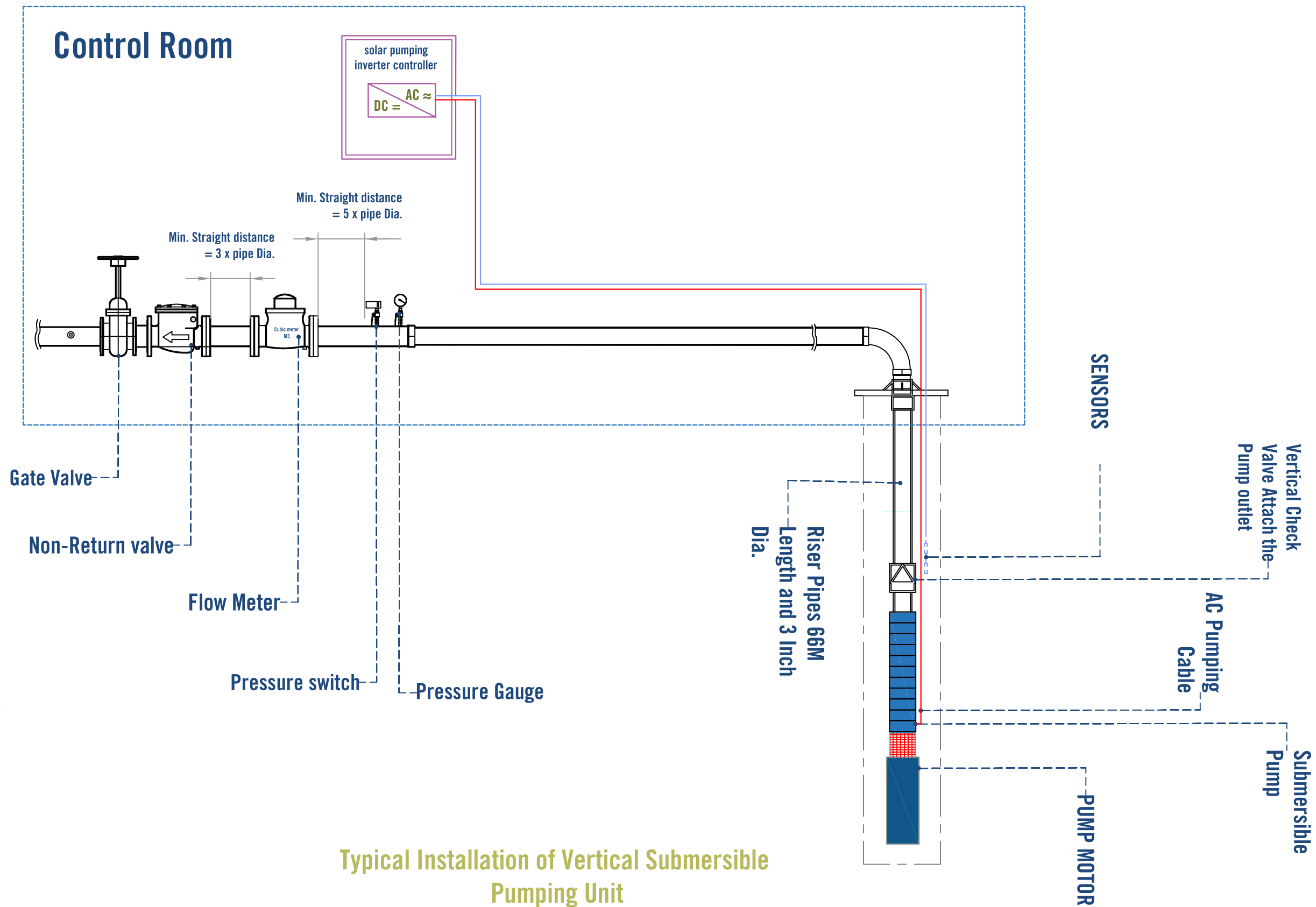
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North:



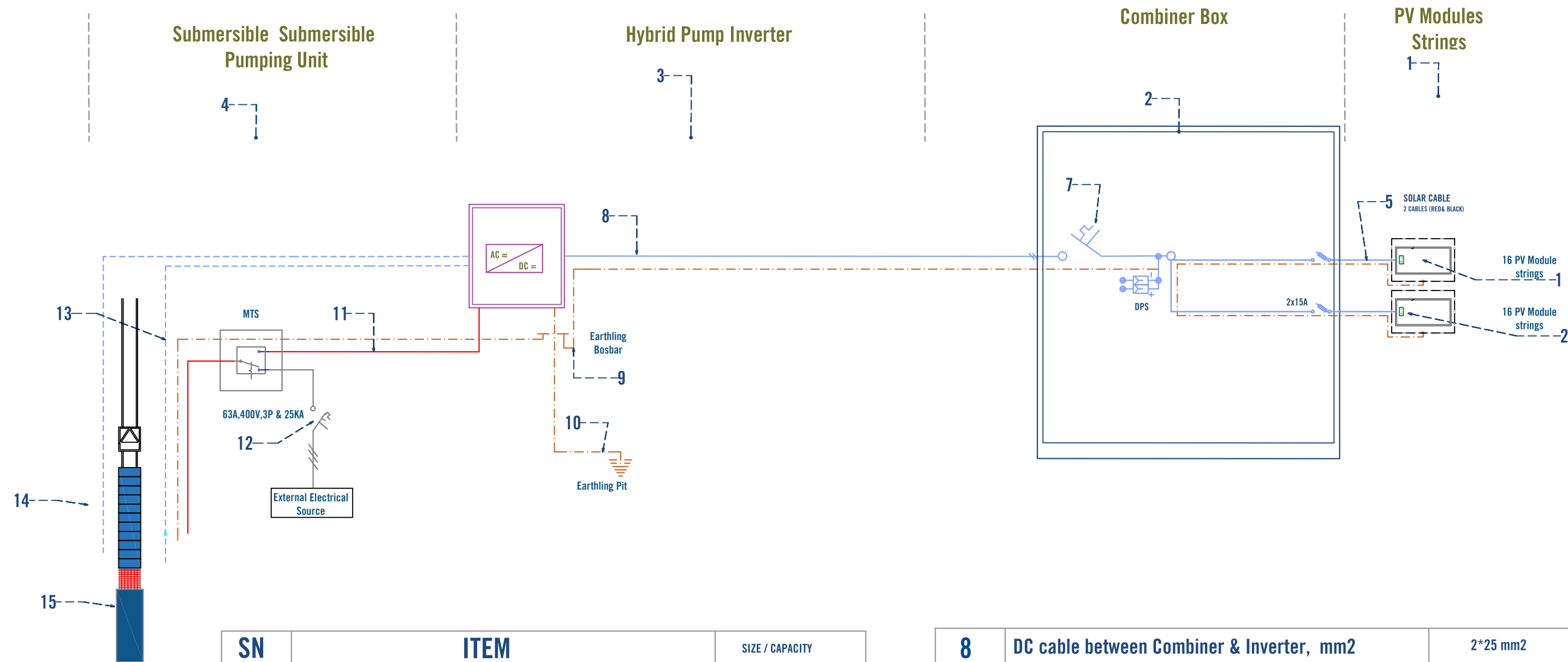
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		REHABILITATIONS OF HESSE SALEM WATER PROJECT	SUBMERSIBLE PUMP PLUMBING DETAILS	SPRY - WASH Sector		Final Draft				
		Project Location:	Project Name:	Approved by:		Project No:	Paper Size:	A3		
		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector		Date	03/07/2025	Scale		

Submersible
Pump Wiring
Diagram

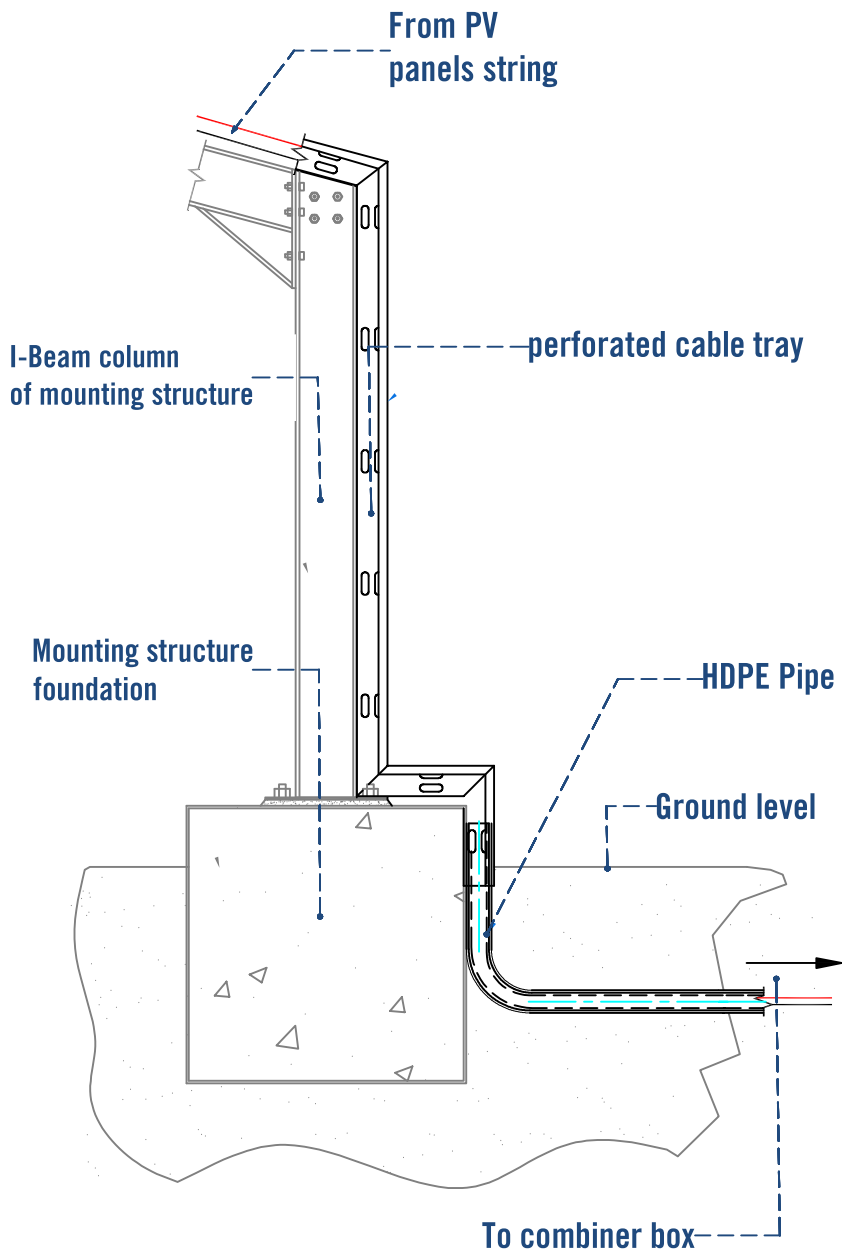


SN	ITEM	SIZE / CAPACITY
1	# of PV Strings and Total Modules	2 strips >= 16.0 kW
2	Combiner Box	>= 60 A
3	Inverter Power, KW	>= 15 kW
4	Submersible Pump Power , KW	>= 7.2 kW
5	DC cable Between Arrays to Combiner Box, mm2	>=2*10 mm2
6	Earthing Cable between PV modules, , mm2	10 mm2
7	Combiner DC circuit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

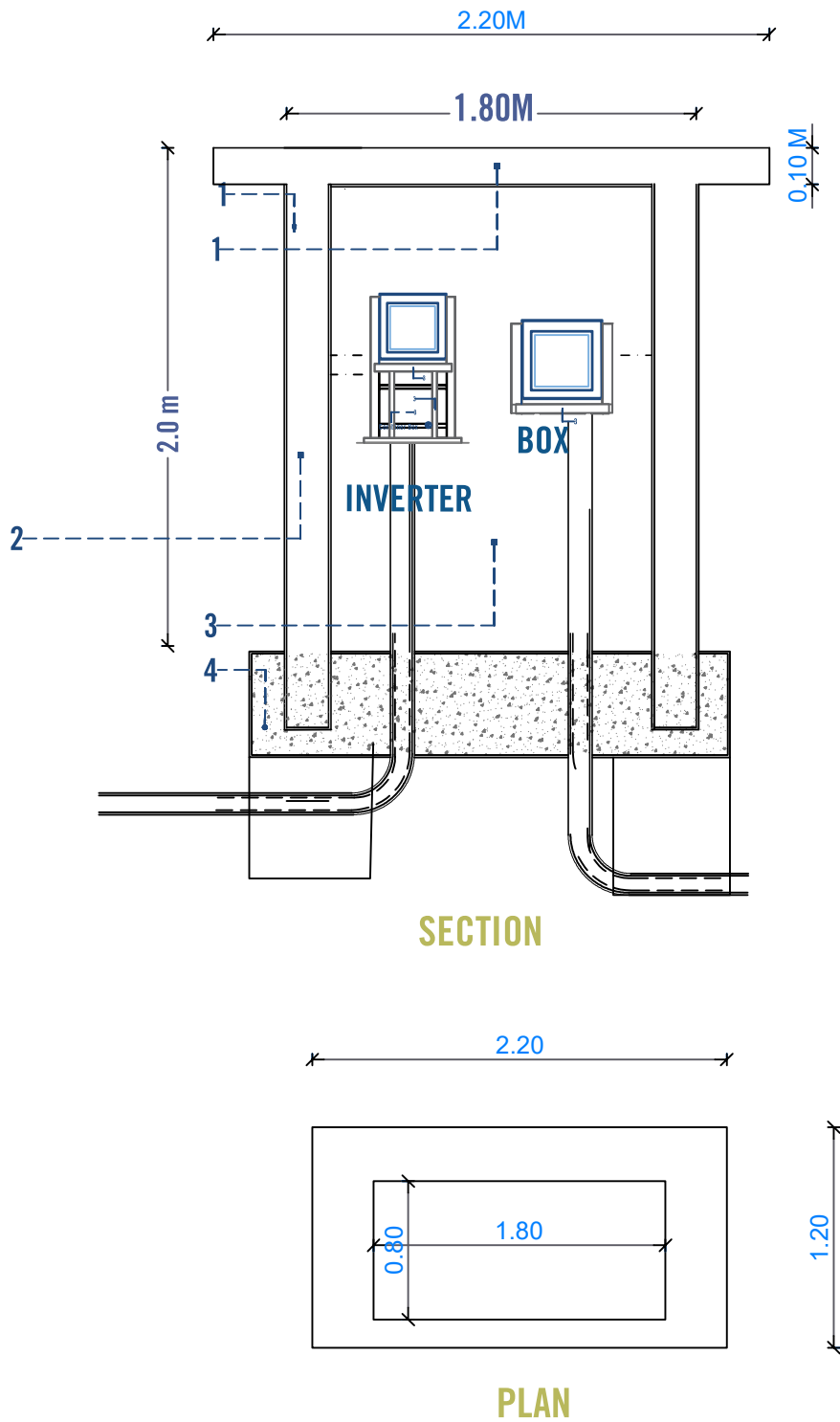
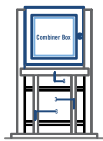
8	DC cable between Combiner & Inverter, mm2	2*25 mm2
9	Earthing Cable from Inverter to the Bus bar ,mm	10 mm2
10	Earthing Cable from bus bar to earthing pit ,mm	10 mm2
11	Pump AC Cable , mm2	3*25 mm2
12	12 input AC circuit breaker, A	As BOQ
13	Level Sensor Cable , mm2	>= 1.5 mm2
14	Pressure Switch Cable, mm2	>= 2*1.5 mm2
15	Submersible Pump Motor , KW	>= 9.2 kW

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

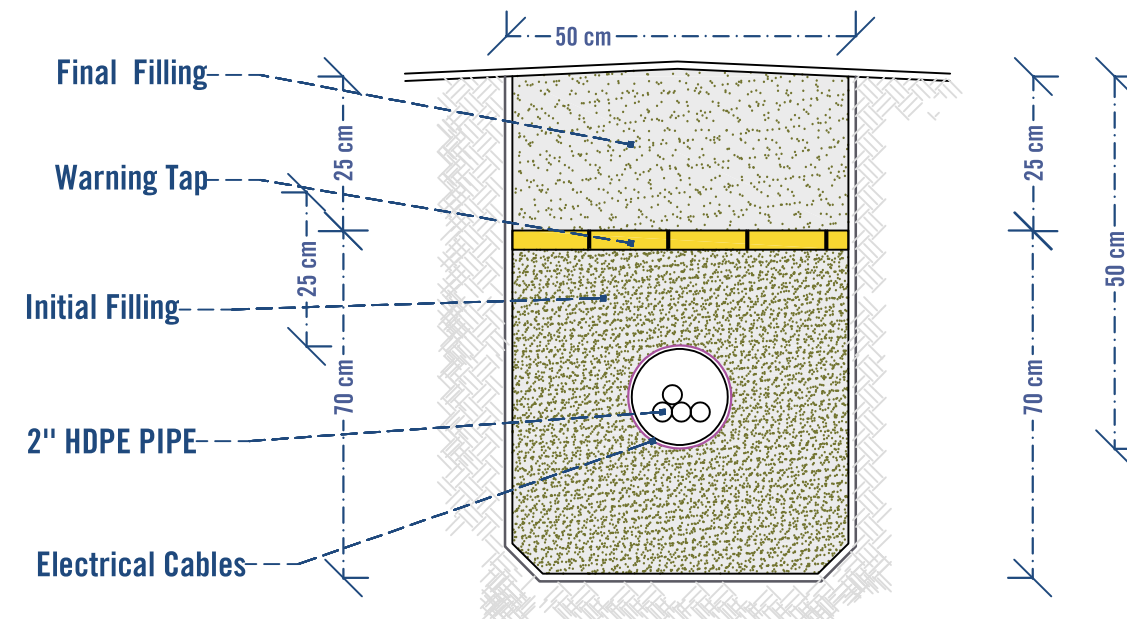
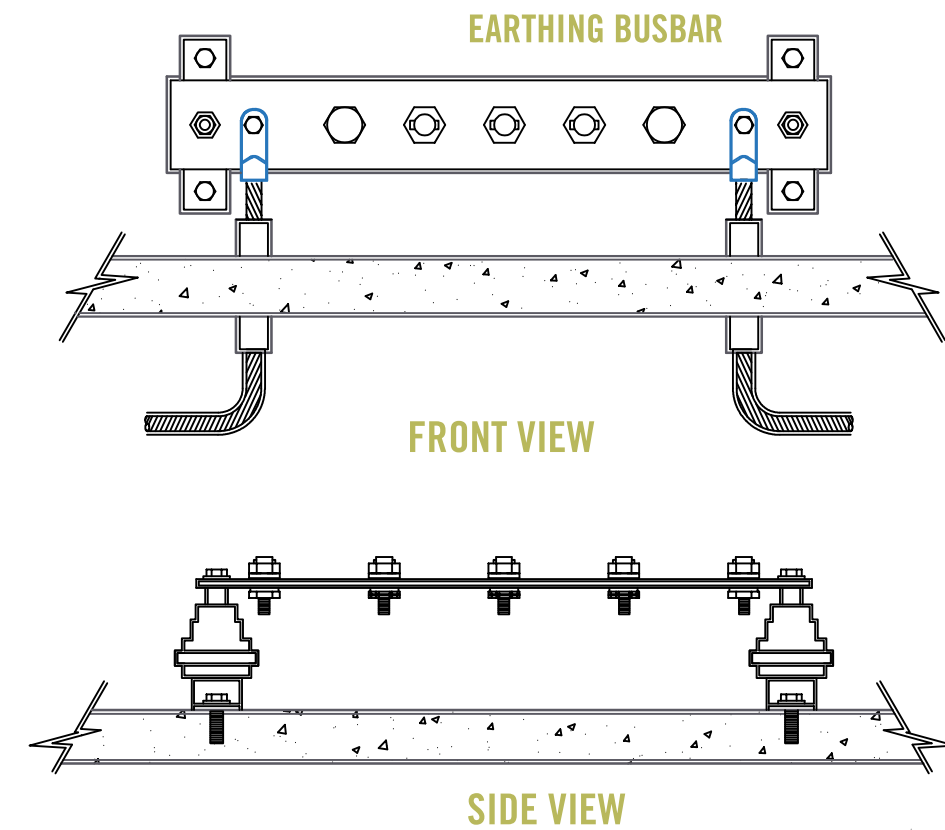
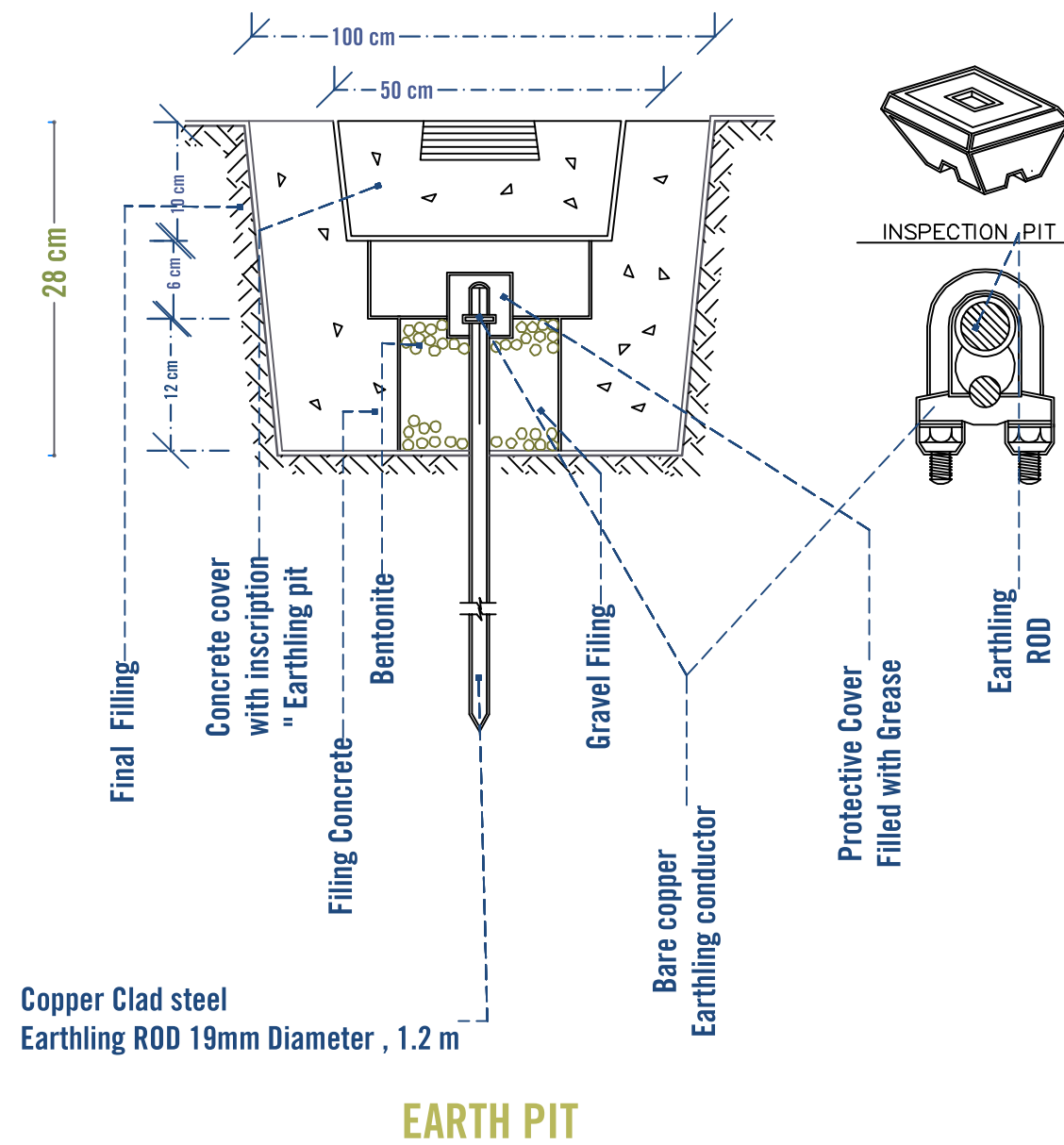


PERFORATED CABLE TRAY TYPICAL INSTALLATION



COPNTROL ROOM FOR INVERTER AND COMBINER BOX N

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		REHABILITATIONS OF HESSE SALEM WATER PROJECT	COMBINER BOX AND CABLE TRAY DETAILS	SPRY - WASH Sector	Final Draft					
		Project Location:	Project Name:	Approved by:	Project No:		Paper Size:			A3
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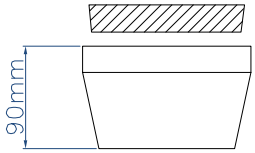
EARTH PIT DETAILS

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		REHABILITATIONS OF HESSE SALEM WATER PROJECT		SPRY - WASH Sector	Final Draft		A1-13
		Project Location:	Project Name:	Approved by:	Project No:		
		MOCHA DISTRICT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date: 03/07/2025	Paper Size: A3	
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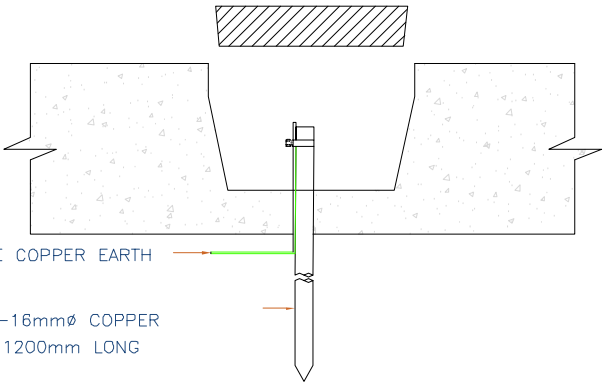
COPPER ROD

OVERALL
LENGTH
1200 mm.

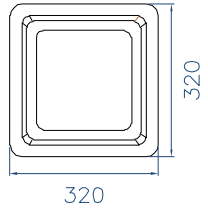


CONCRETE EARTH HOUSING SECTION

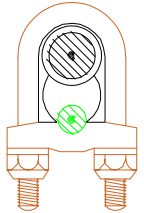
AIR TERMINAL BASE
COPPER CLAMP
25mm COPPER TAPE
AIR ROD
1000mm.
LONG



ELEVATION

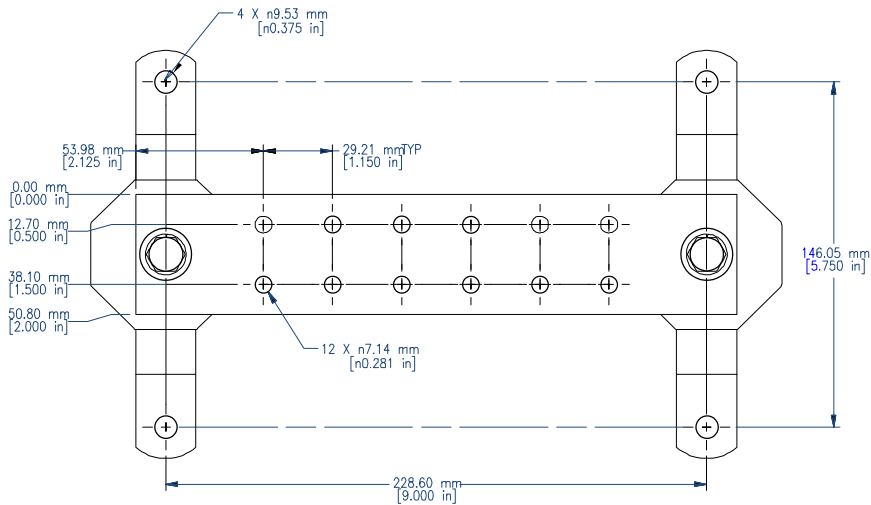
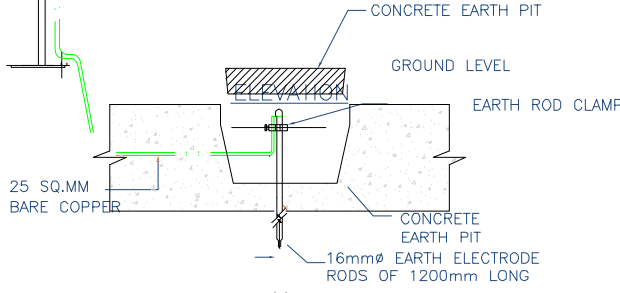


CONCRETE EARTH HOUSING PLAN

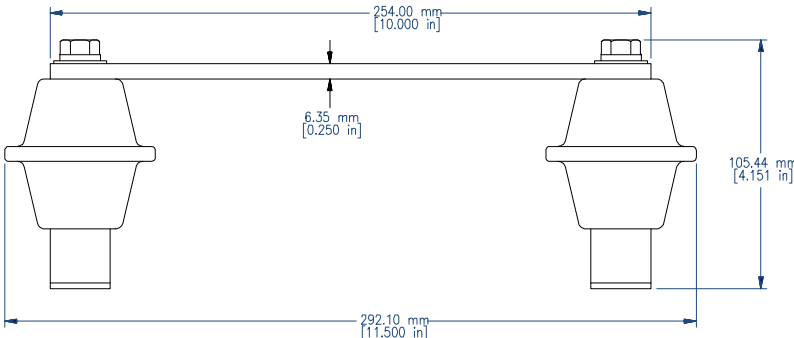


CLAMP

LIGHTNING PROTECTION SYSTEM



ASSEMBLY - TOP VIEW

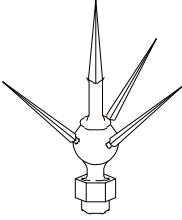


ASSEMBLY - SIDE VIEW

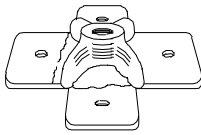
EARTHING BUSBAR

GROUND ROD.

AIR TERMINAL TIP



AIR
TERMINAL



AIR TERMINAL SADDL

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Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRACT - TAIZ GOV.

Drawing Title:

LIGHTNING PROTECTION SYSTEM

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RAINS OF RESILIENCE 2025

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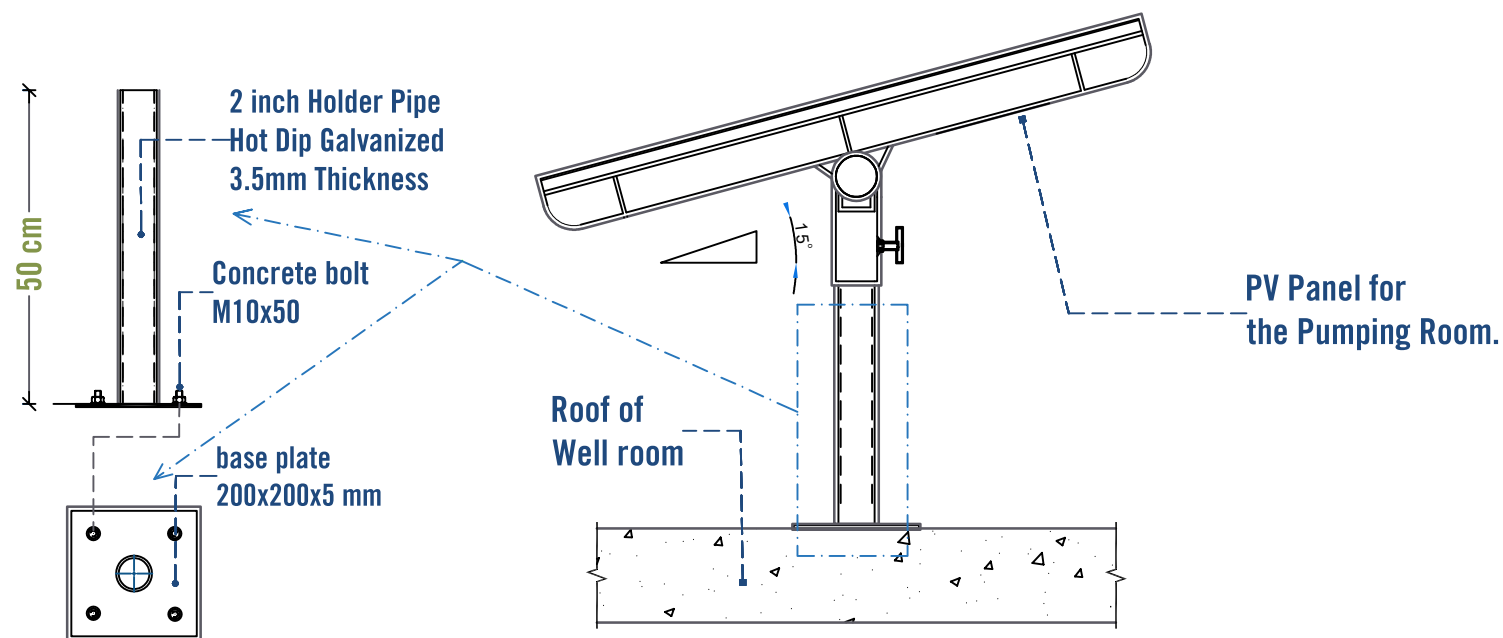
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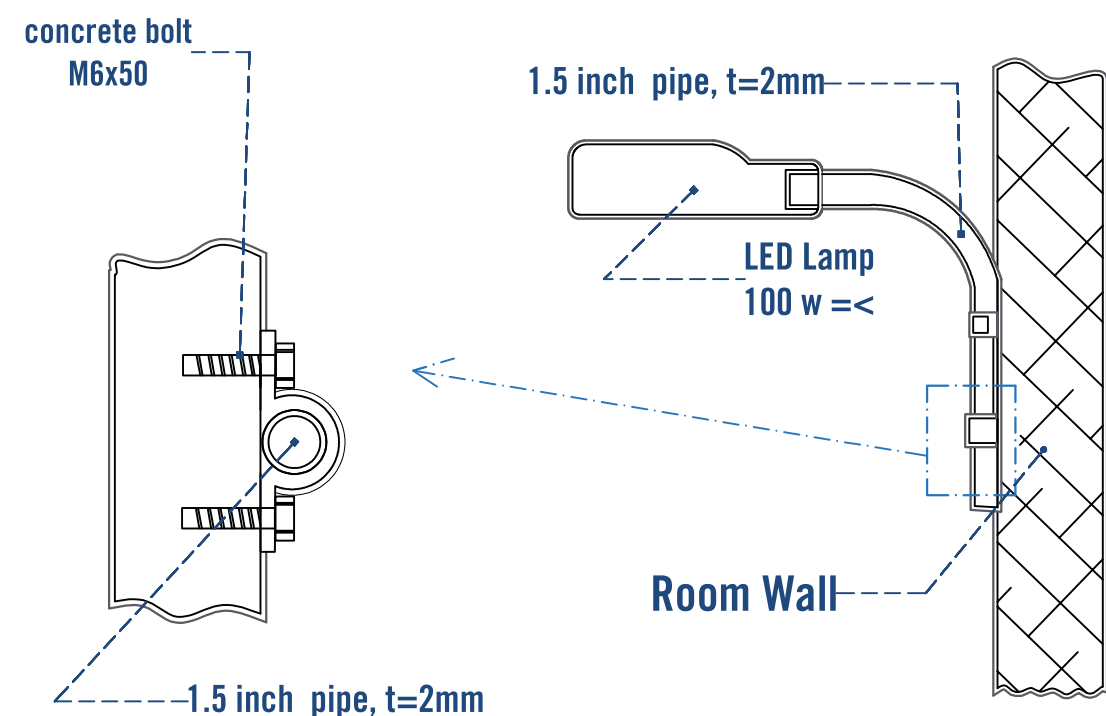


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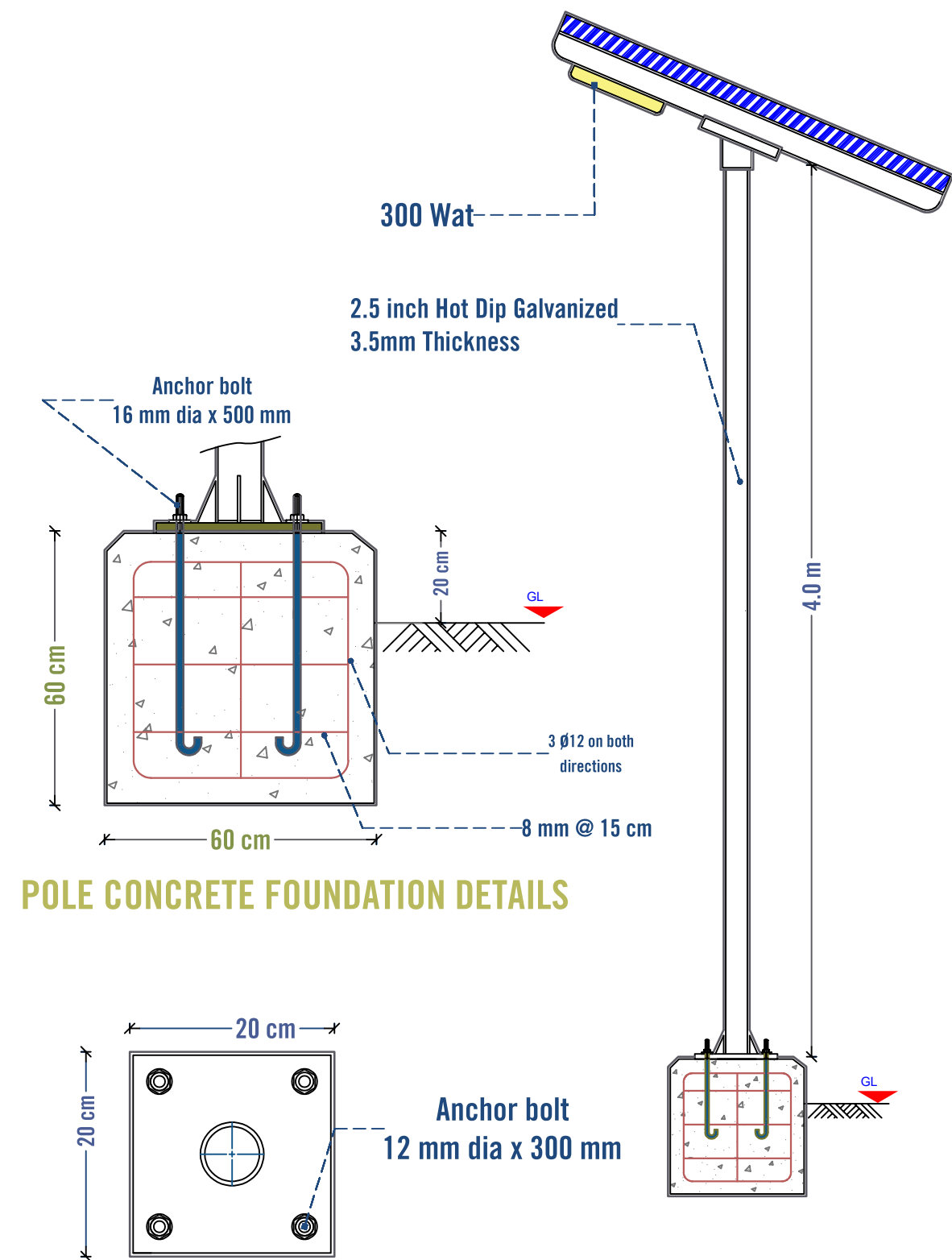
A1-14



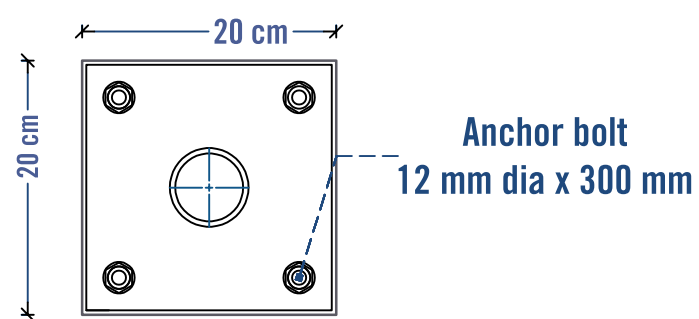
PV PANEL OF ROOM LIGHTING TYPICAL INSTALLATION



1.5 inch pipe, t=2mm



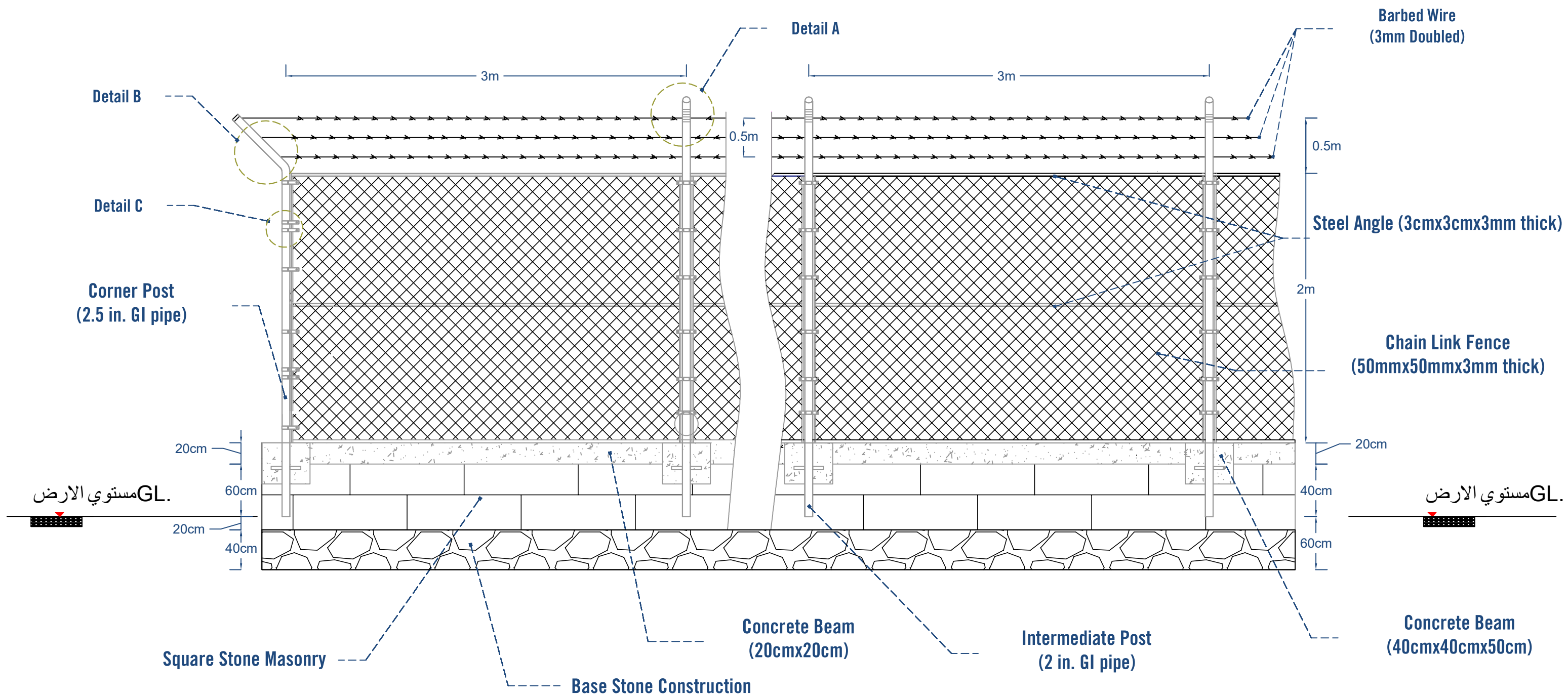
POLE CONCRETE FOUNDATION DETAILS

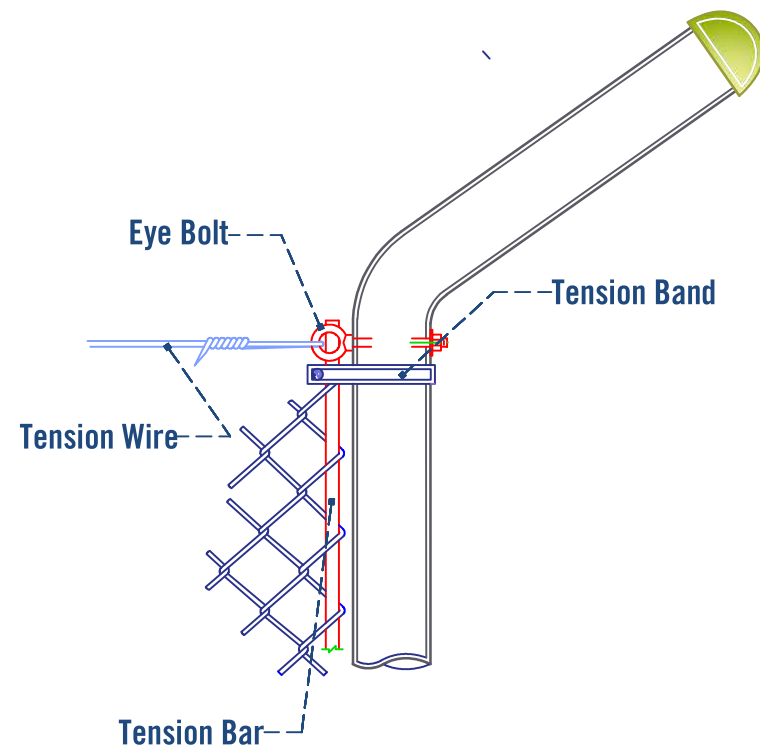


BASE PLATE DETAIL

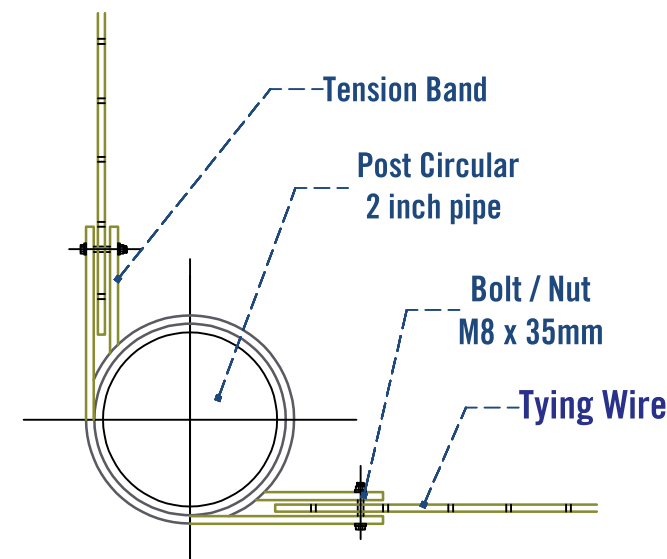
DETAIL - B

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF HESSE SALEM WATER PROJECT	SITE LIGHTING DETAILS	SPRY - WASH Sector	Final Draft		A1-15
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRICT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					03/07/2025	As Shown	

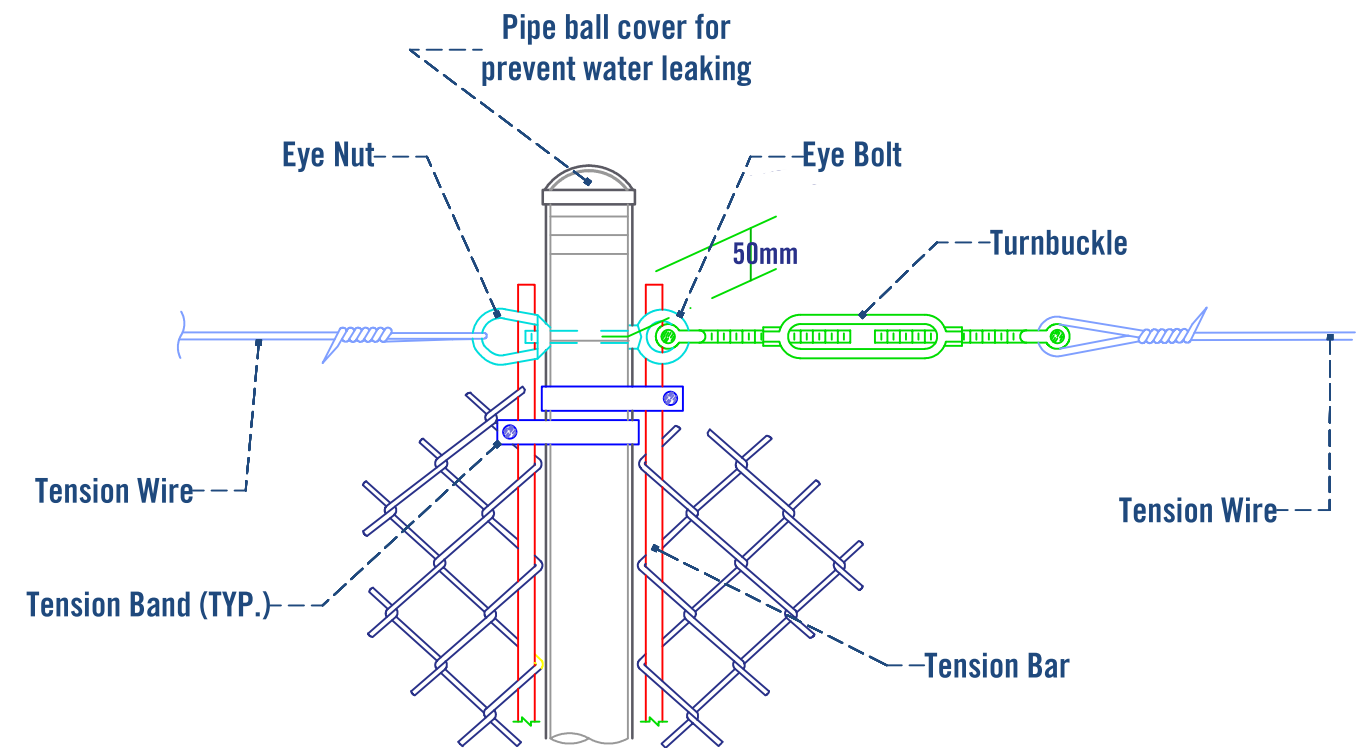




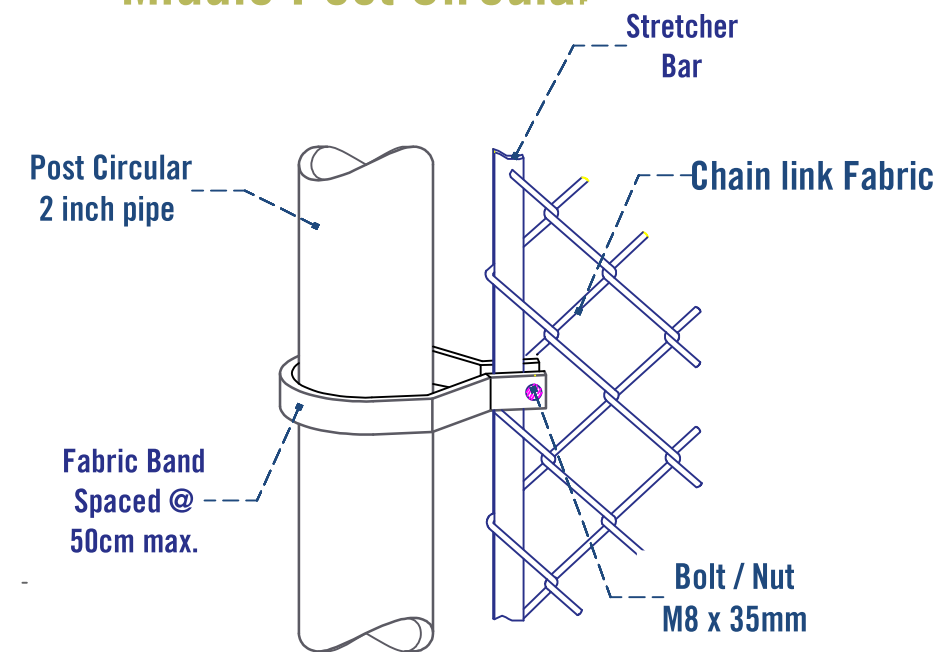
Detail B
Corner Post



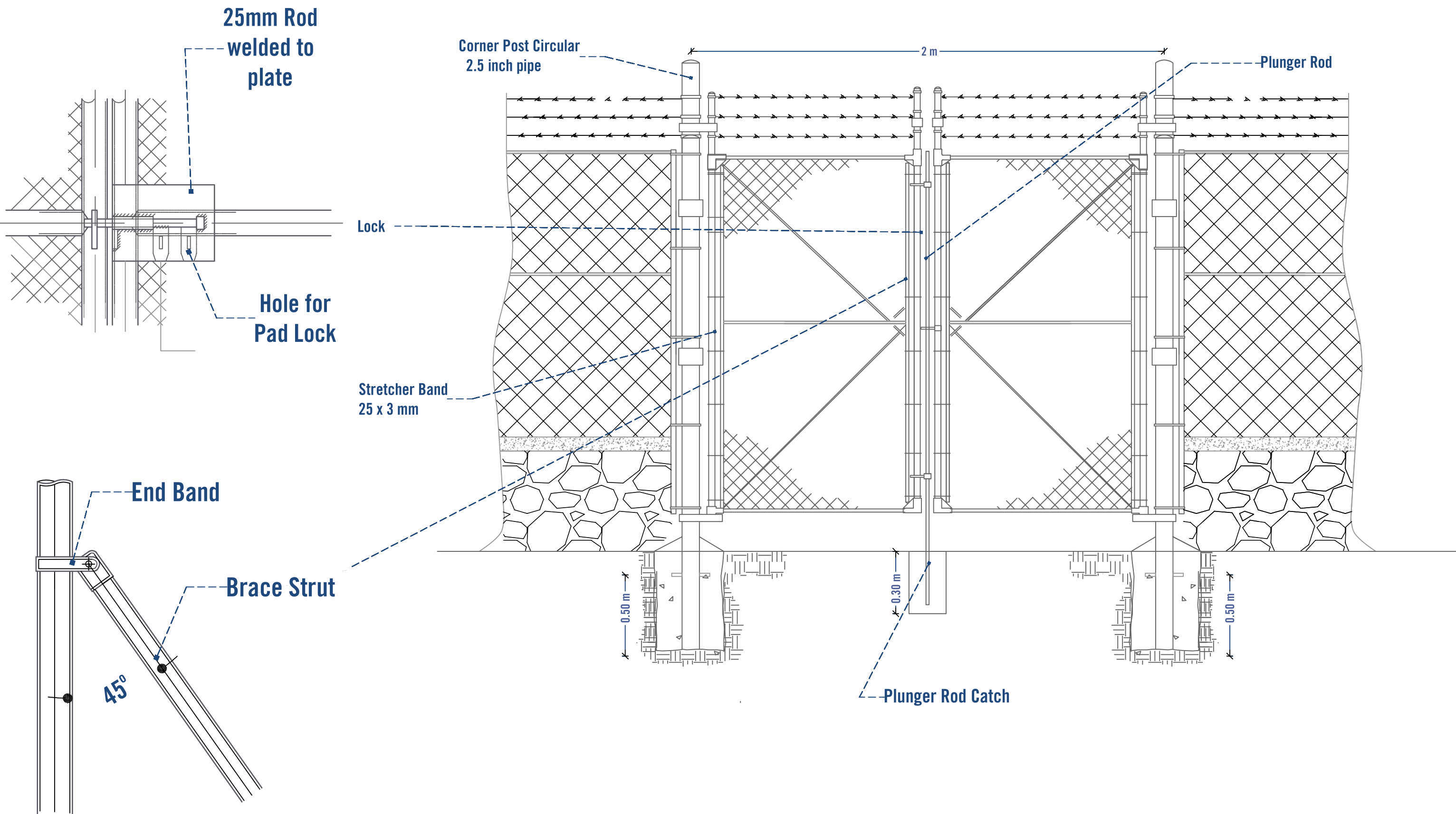
Plan view
Corner Post pip tying



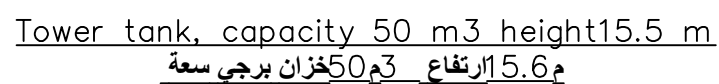
Detail A
Middle Post Circular

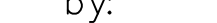


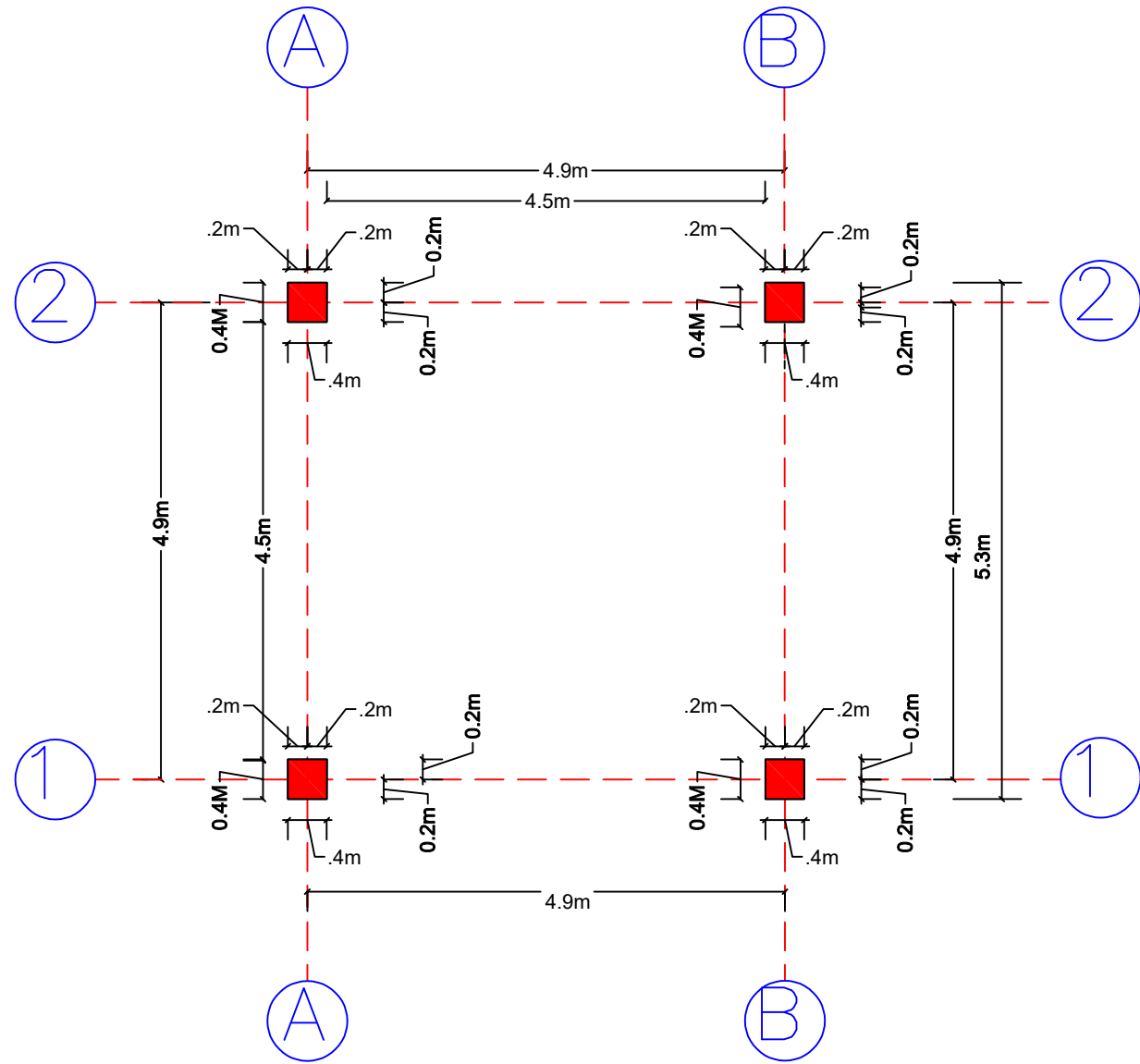
Detail C
Stretcher Bar



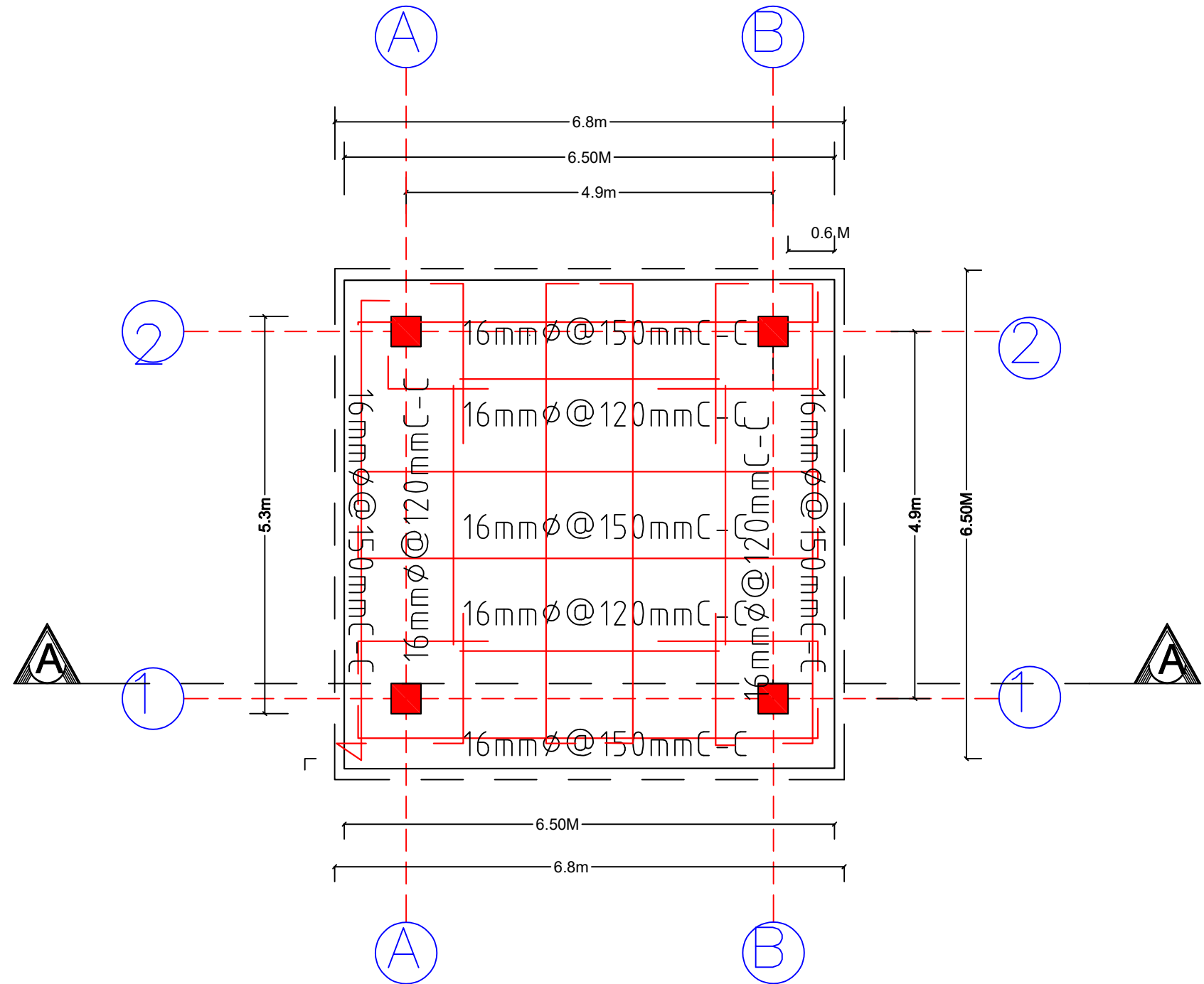
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF HESSE SALEM WATER PROJECT	MAIN ENTRANCE GATE	SPRY - WASH Sector	Final Draft		A1-18
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					03/07/2025	As Shown	



Prepared by: 	Funded by: 	Project Title:	Drawing Title:	Designed and reviewed by:	Status:			North: 	Drawing No: A1-19
		REHABILITATIONS OF HESSE SALEM WATER PROJECT	TOWER TANK ELEVATION AND PLAN	SPRY - WASH Sector	Final Draft				
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	A3		
		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	03/07/2025	Scale	As Shown	



Columns & Axes details
تفاصيل الأعمدة والمحاور



Detailing reinforcement of raft
footing تفصيل تسليح القاعده اللبشة

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRACT - TAIZ GOV.

Drawing Title:

TOWER TANK COLUMN AND FOOTING DETAILS

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

03/07/2025

Paper Size:

A3

Scale

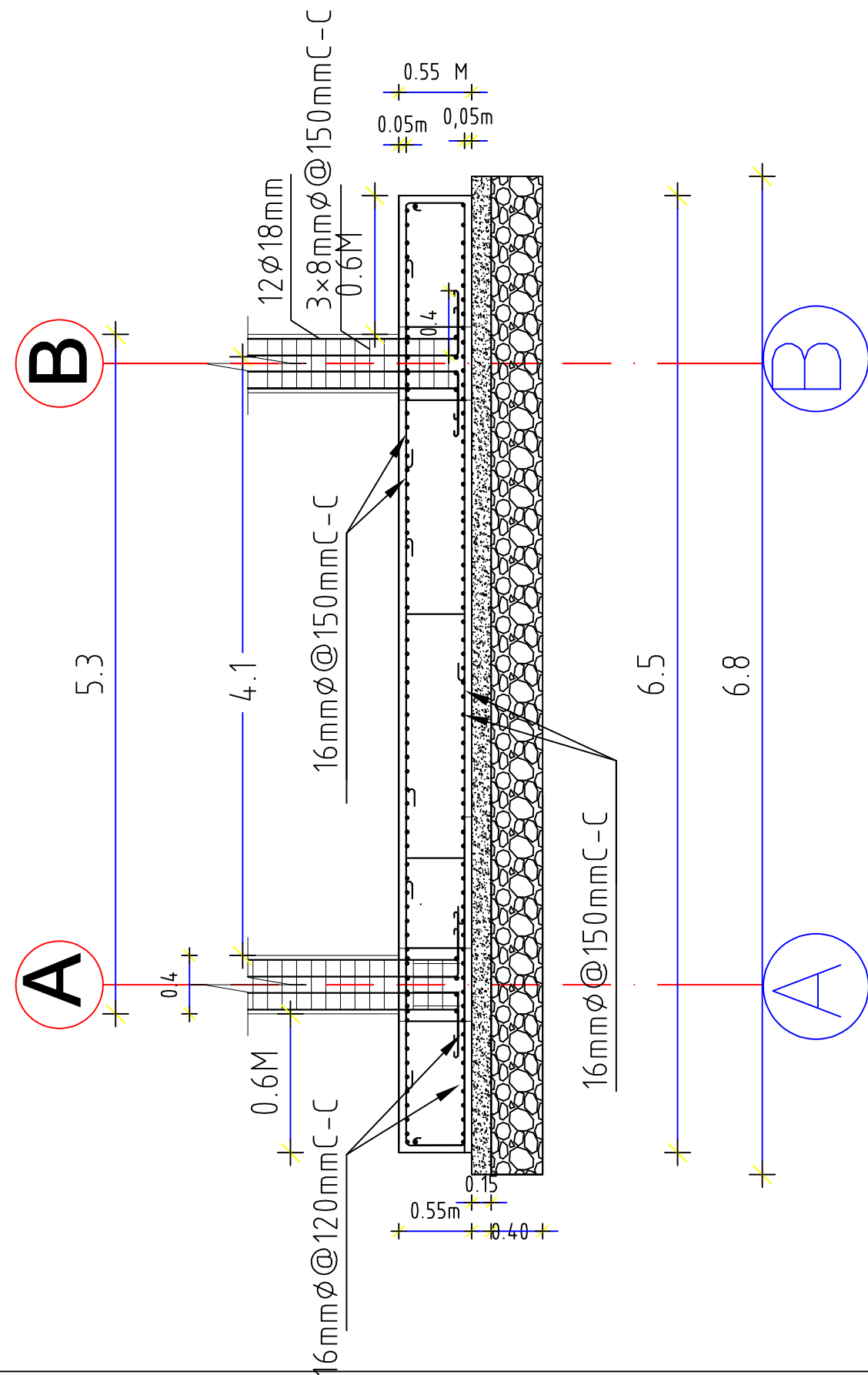
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North:

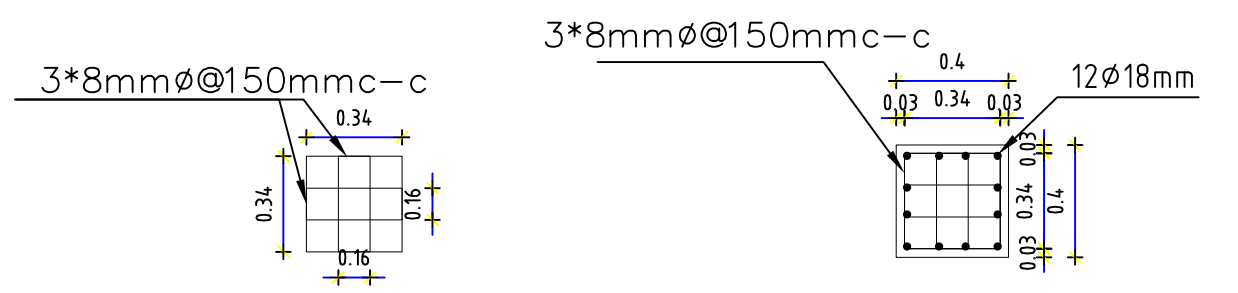
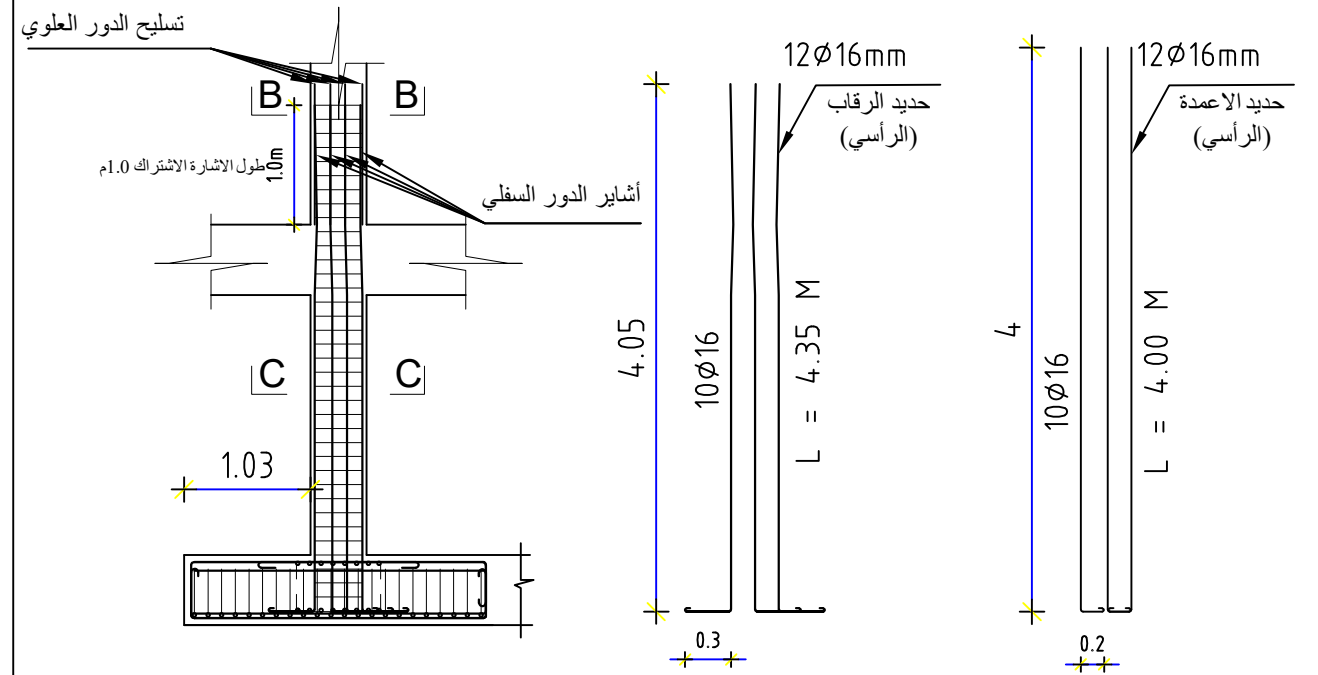


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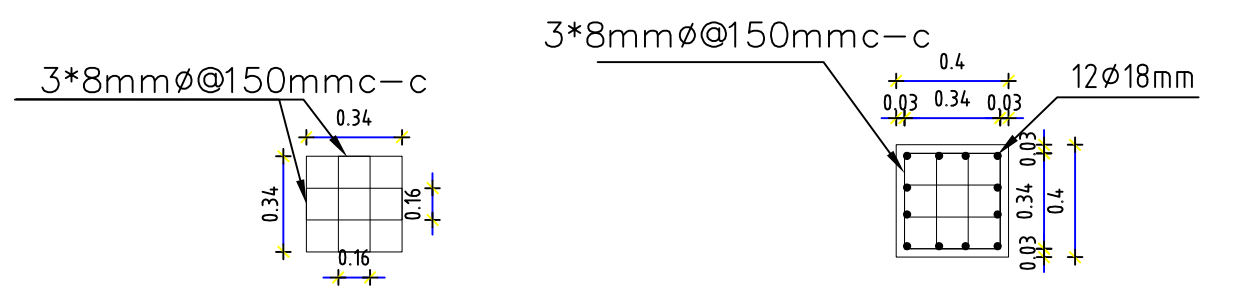
A1-20



Details for Reinforcement Raft Footing A-A 1:100
مقطع تفصيلي لحديد القاعدة الليشة 1:100 A-A

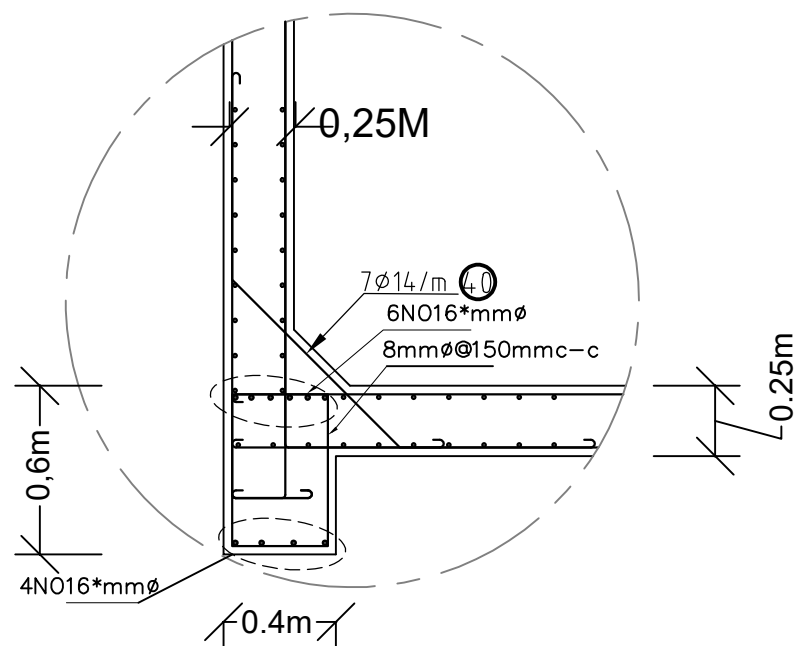


Section C-C Details Column 1:25



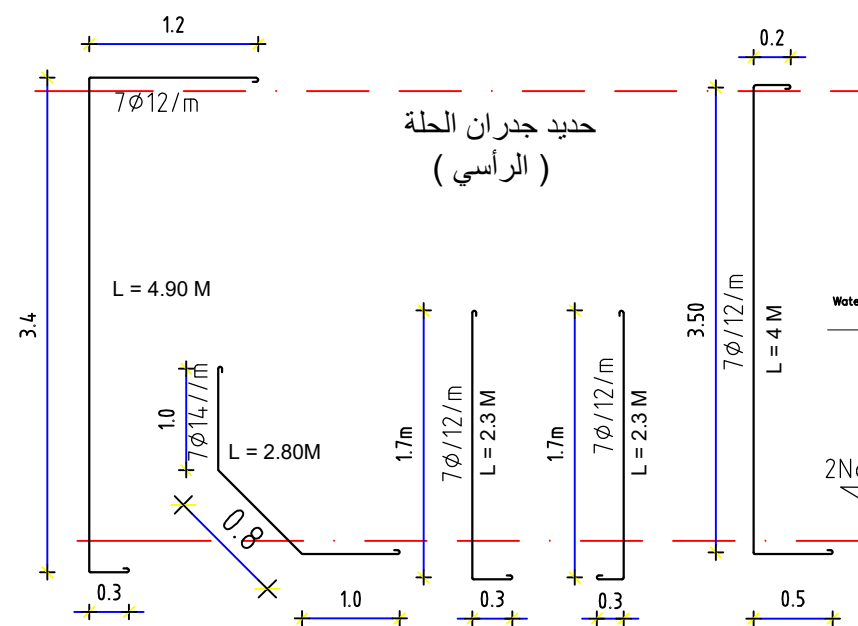
Section B-B Details Column 1:25

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

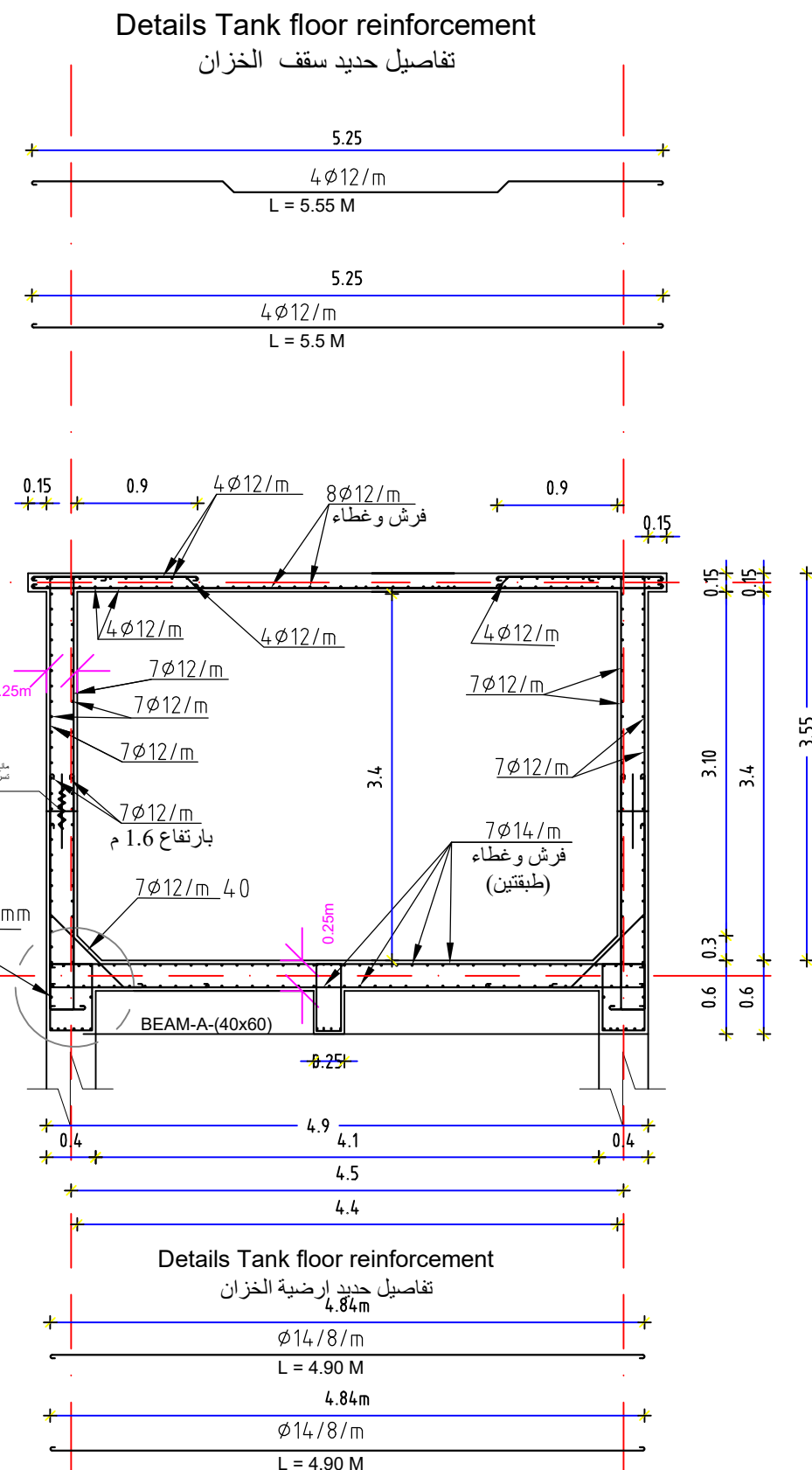


BEAM-A-(40x60) Connection
with walls and floor

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 HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

TOWER TANK WALL DETAILS

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

03/07/2025

Paper Size: A3

Scale

As Shown

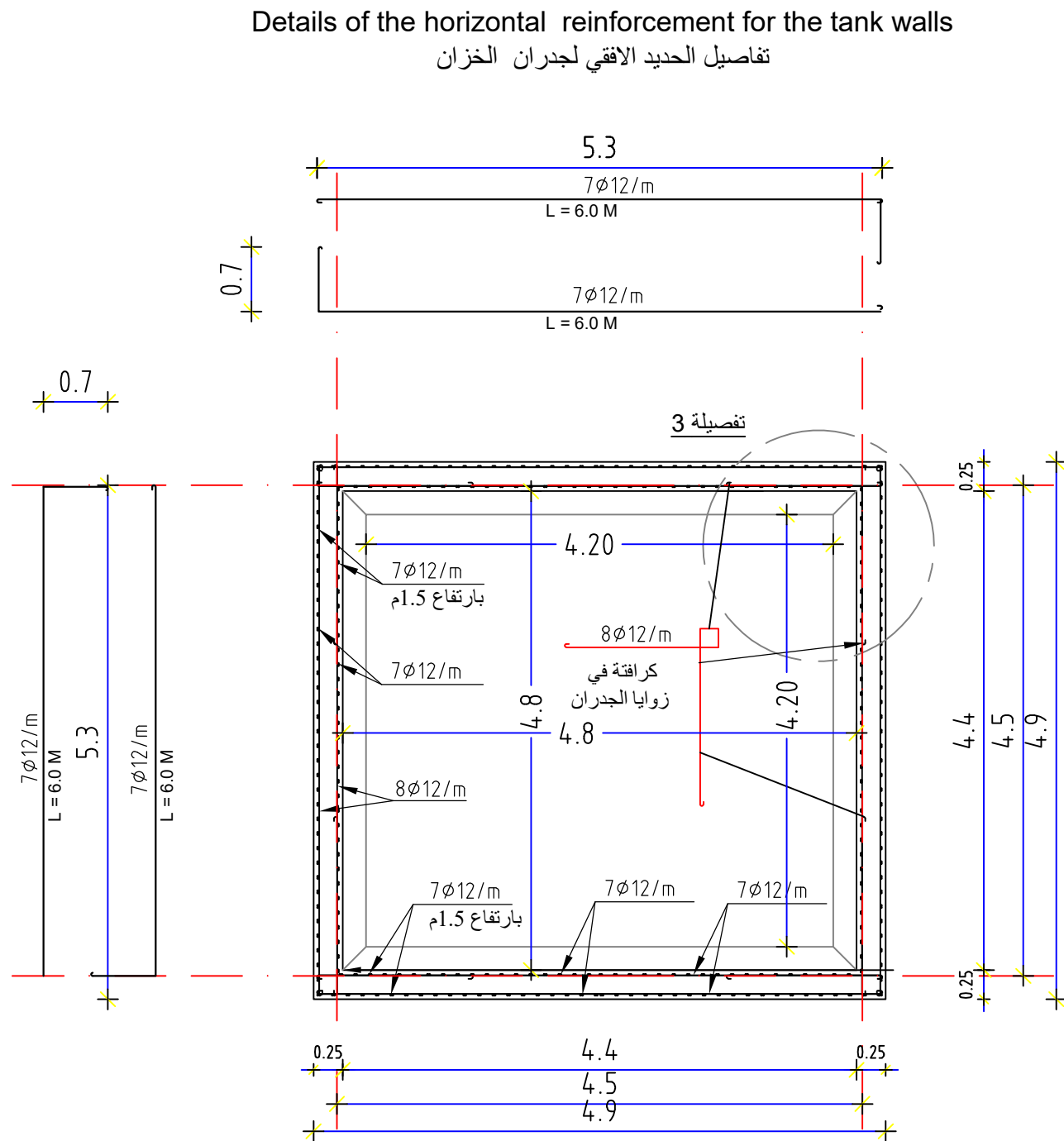
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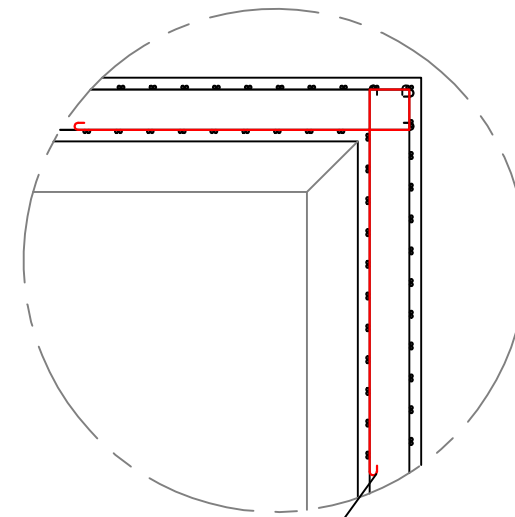
Drawing No:

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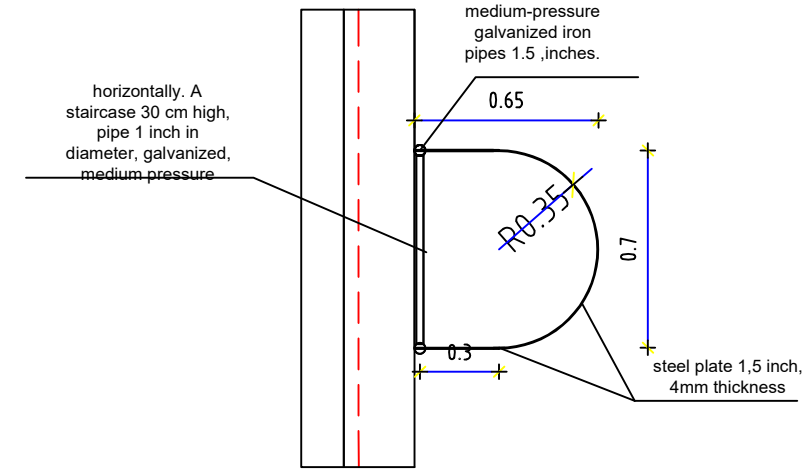
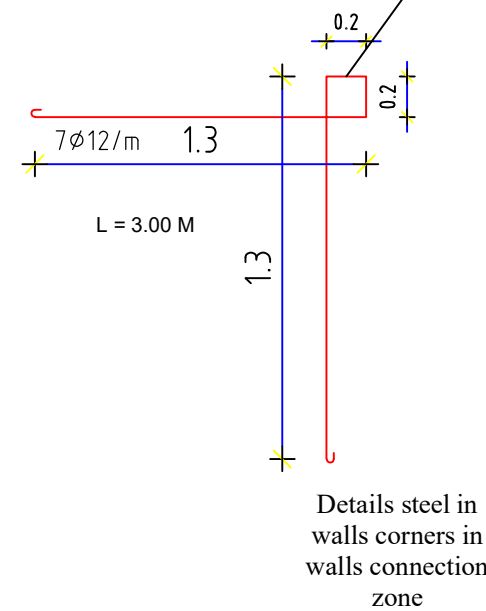
Details of the horizontal reinforcement for the tank walls
تفاصيل الحديد الافقي لجدران الخزان



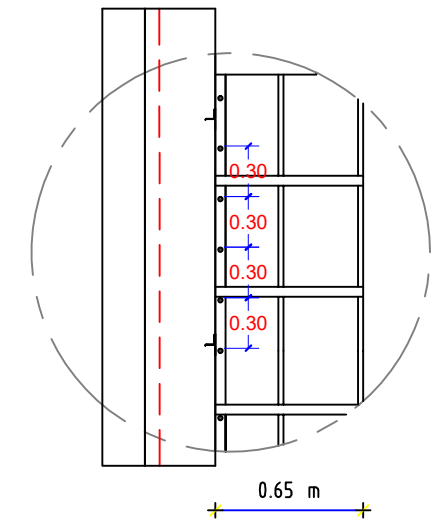
Details of the horizontal reinforcement for the tank walls
تفاصيل الحديد الافقي لجدران الخزان



تفصيلة 3
1:25



Tank ladder plan
مسقط سلم الخزان



Tank ladder plan
مسقط سلم الخزان

Horizontal section for Tank. scale 1:00
مقطع افقي للخزان 1:00 مقياس

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

TOWER TANK WALL DETAILS

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

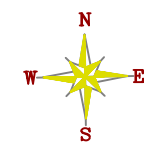
Date 03/07/2025

Paper Size: A3

Scale

As Shown

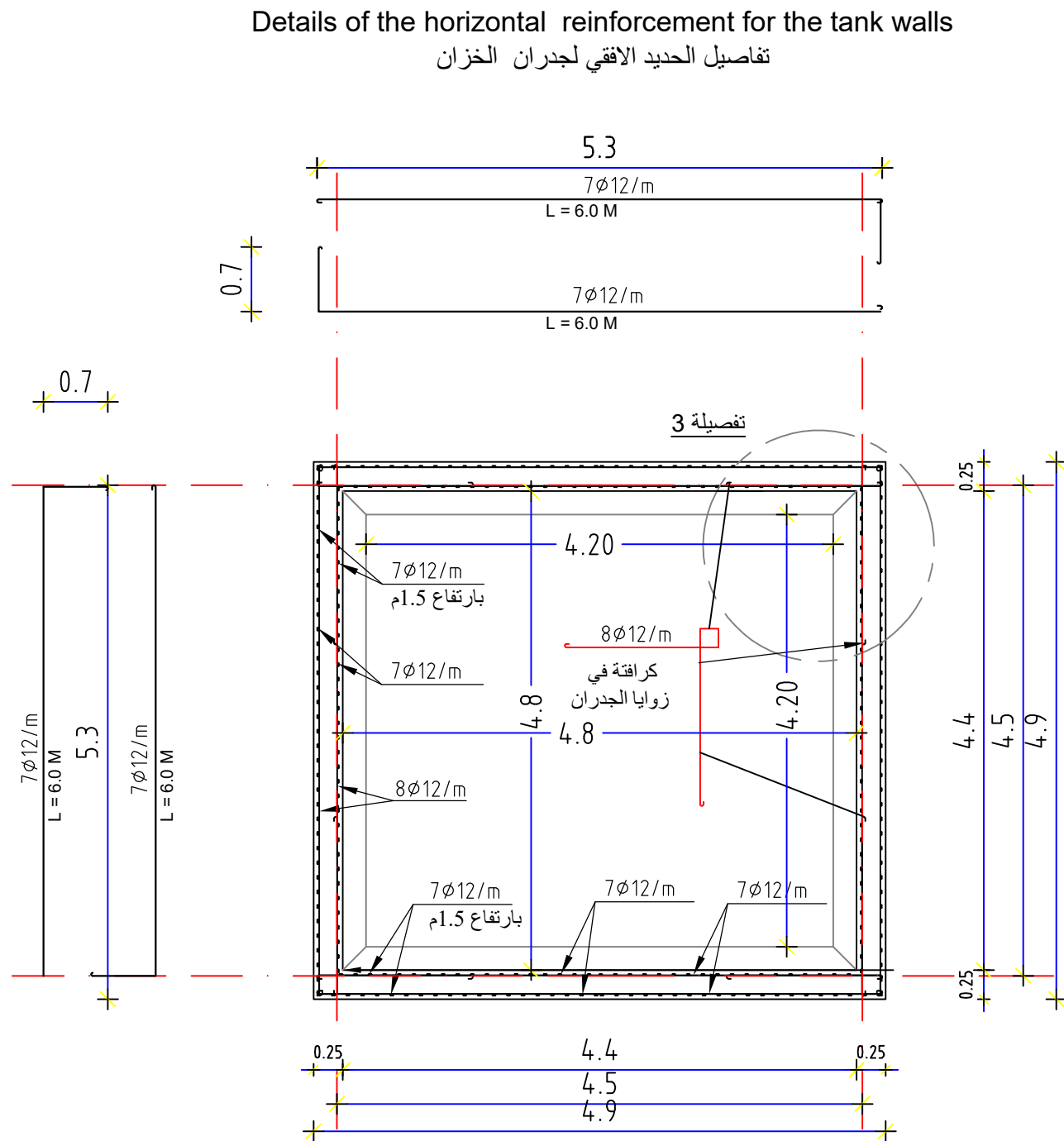
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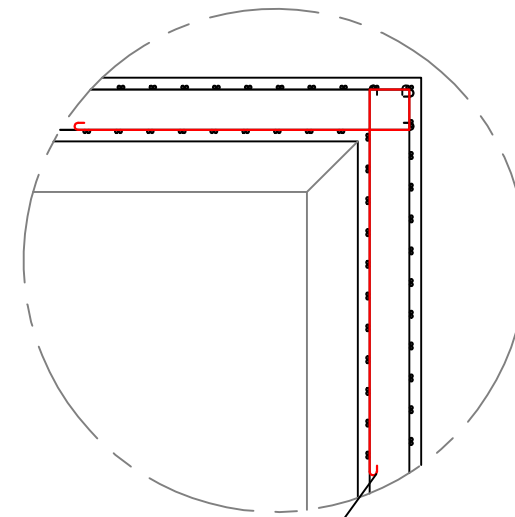
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A1-23

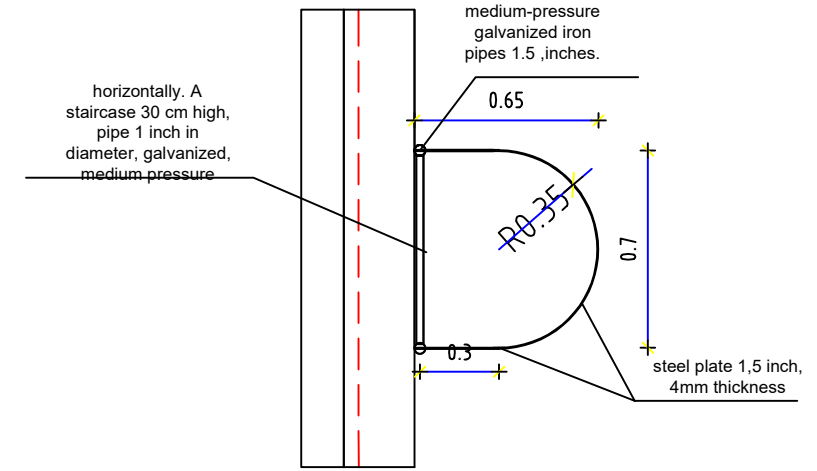
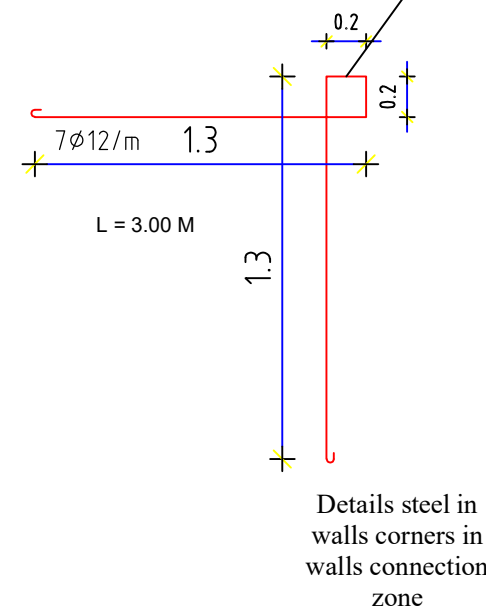
Details of the horizontal reinforcement for the tank walls
تفاصيل الحديد الافقي لجدران الخزان



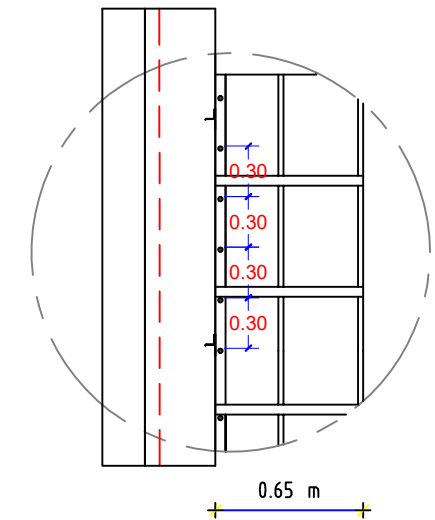
Details of the horizontal reinforcement for the tank walls
تفاصيل الحديد الافقي لجدران الخزان



تفصيلة 3
1:25



Tank ladder plan
مسقط سلم الخزان



Tank ladder plan
مسقط سلم الخزان

Horizontal section for Tank. scale 1:00
مقطع افقي للخزان 1:00 مقياس

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

TOWER TANK WALL DETAILS

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

03/07/2025

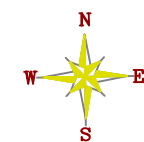
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Scale

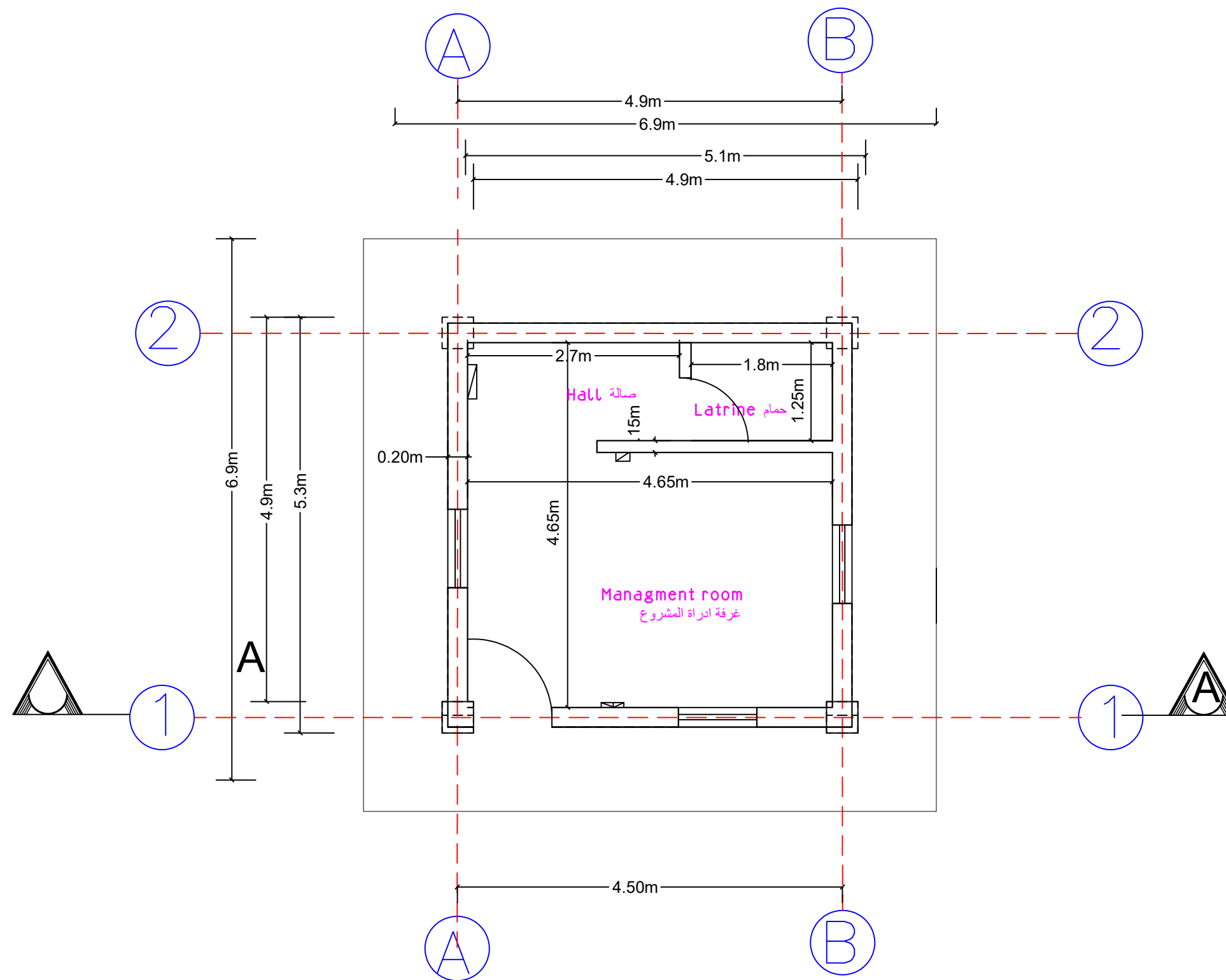
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North:



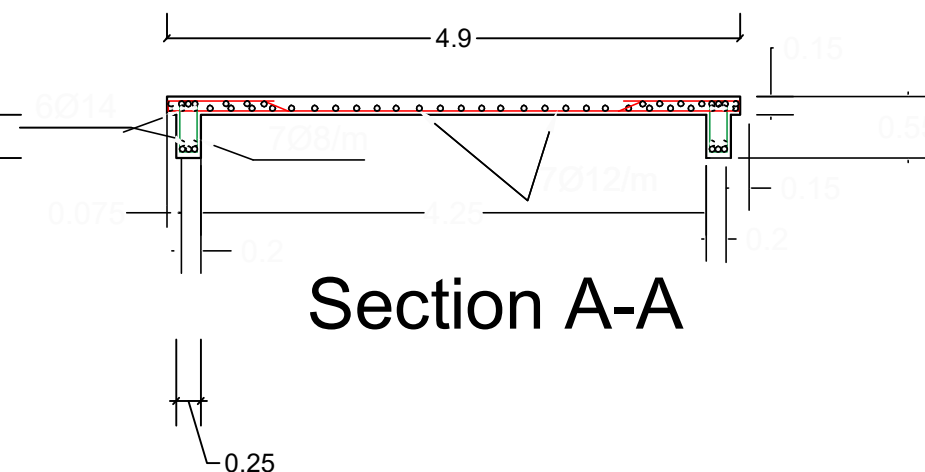
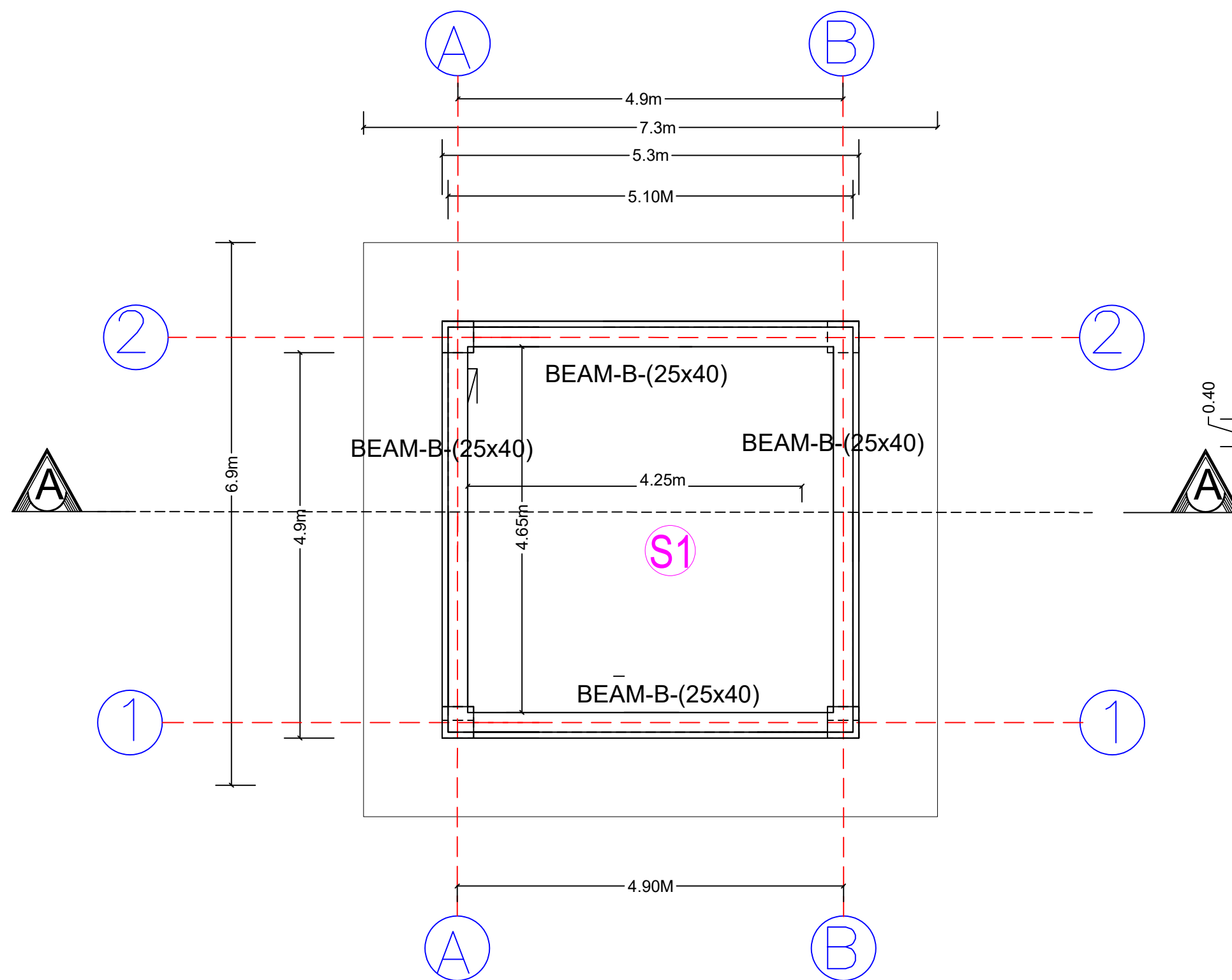
Drawing No:

A1-23



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

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF HESSE SALEM WATER PROJECT	Managment room PLAN	SPRY - WASH Sector	Final Draft		A1-27
		Project Location:	Project Name:	Approved by:	Project No:		
		MOCHA DISTRICT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Paper Size: A3	
					03/07/2025	Scale	As Shown



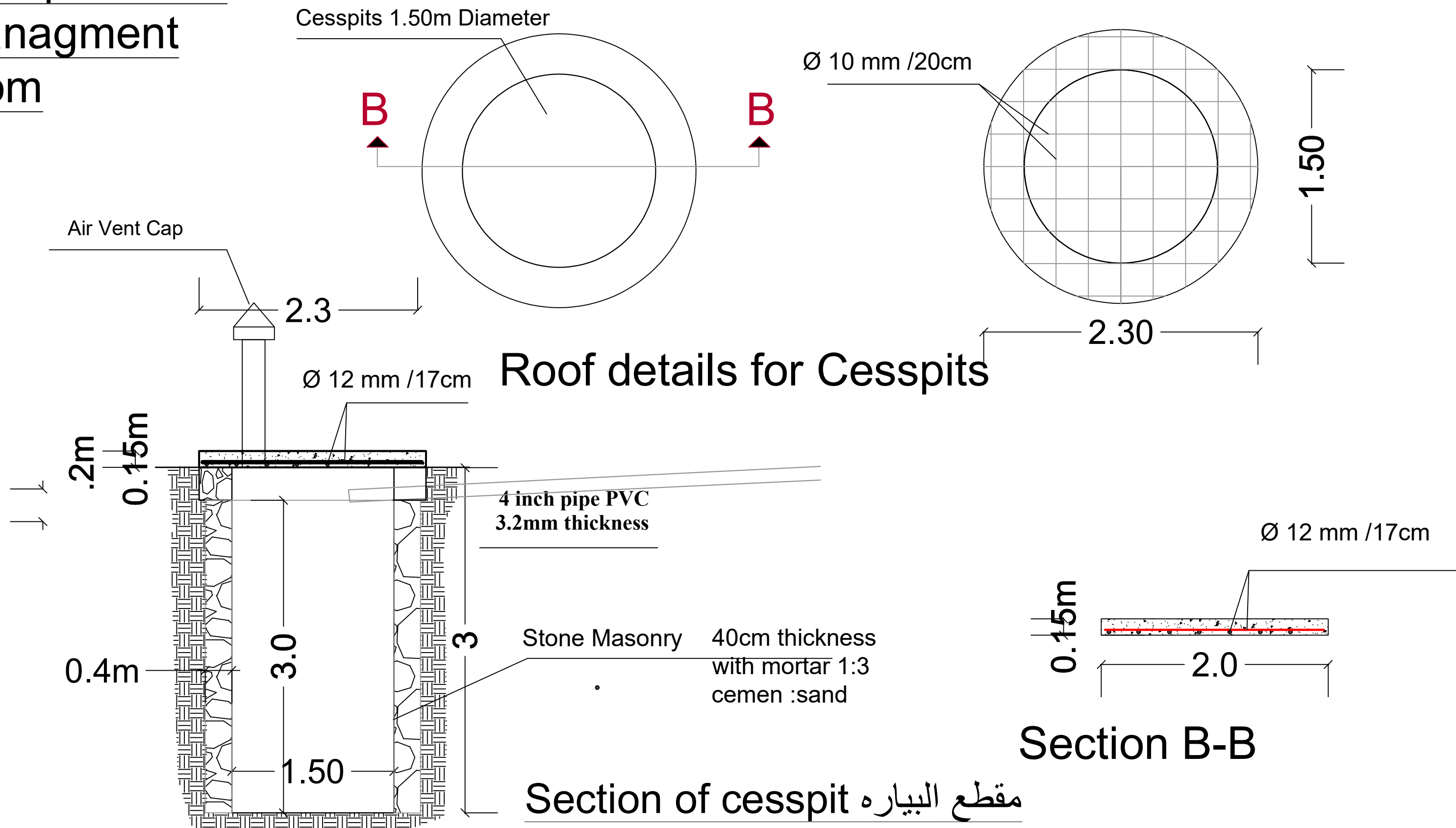
Slab reinforcement table

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

Plan Slab reinforcement Managment room PLAN

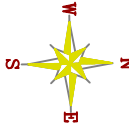
مسقط انشائي لسقف غرفة ادارة المشروع

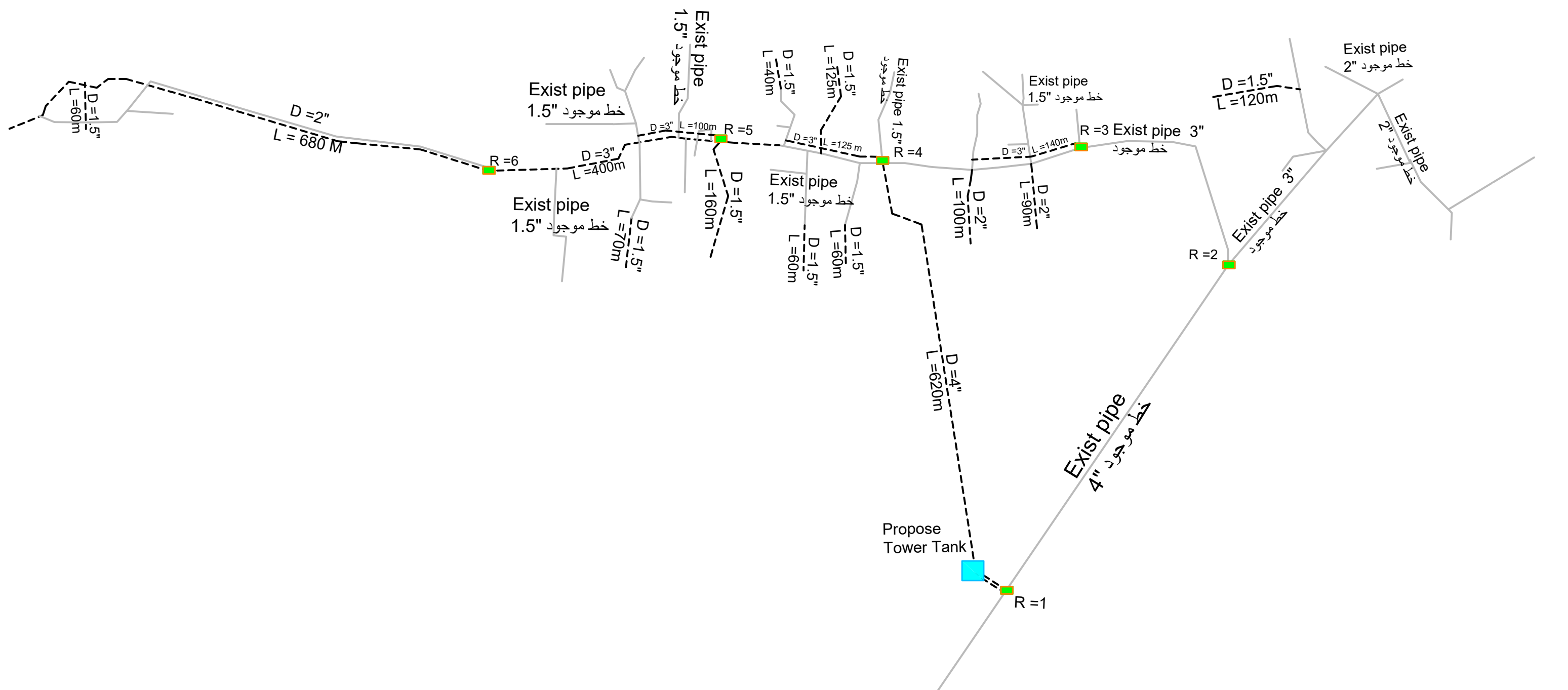
Drawing for Cesspit latrine managment room





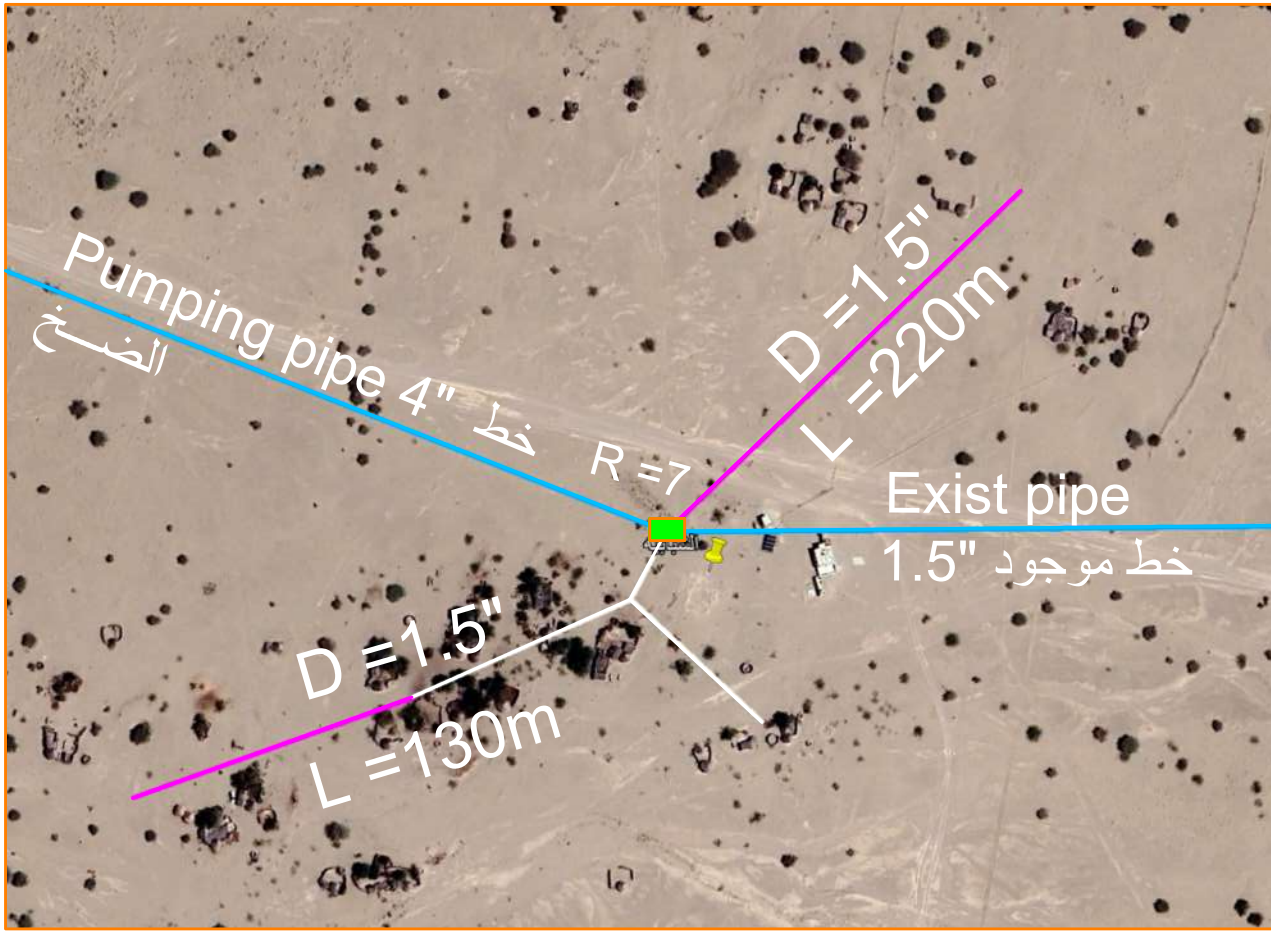
4 هنش خط إسالة موجود	PE-110mm	Existing Water Network lines (110mm) 4 Inch dia.
3 هنش خط إسالة موجود	PE-90mm	Existing Water Network lines (90mm) 3 Inch dia.
2 هنش خط إسالة موجود	PE-75mm	Existing Water Network lines (63) 2 Inch dia.
1.5 هنش خط إسالة موجود	PE-50mm	Existing Water Network lines (50mm) 1.5 Inch dia.
4 هنش خط إسالة مقترح	PE-110mm	Proposed New Water Network lines (110mm) 4 Inch dia.
3 هنش خط إسالة مقترح	PE-90mm	Proposed New Water Network lines (90mm) 3 Inch dia.
2 هنش خط إسالة مقترح	PE-63mm	Proposed New Water Network lines (63mm) 2 Inch dia.
1.5 هنش خط إسالة مقترح	PE-50	Proposed New Water Network lines (50mm) 1.5 Inch dia.

Prepared by: Samaritan's Purse INTERNATIONAL RELIEF	Funded by: Samaritan's Purse INTERNATIONAL RELIEF	Project Title: REHABILITATIONS OF HESSE SALEM WATER PROJECT Project Location: MOCHA DISTRACT - TAIZ GOV.	Drawing Title: Water Network Plan With Map Project Name: RAINS OF RESILIENCE 2025	Designed and reviewed by: SPRY - WASH Sector Approved by: SPRY - WASH Sector	Status: Final Draft Project No: Date 03/07/2025	Paper Size: A3 Scale As Shown	North: 	Drawing No: A1-30
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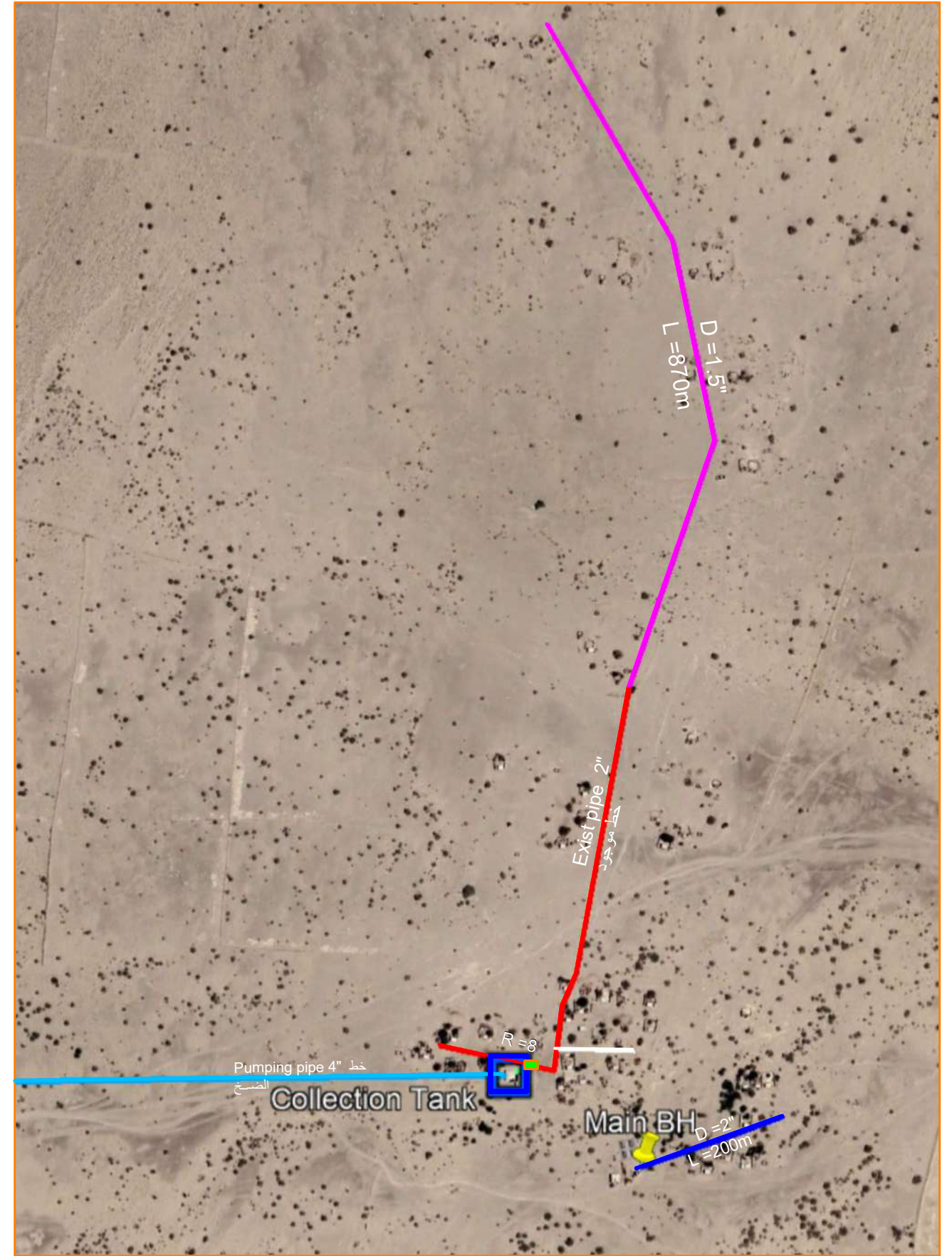


Details for Lines

خطوط الأنابيب الموجودة		Existing Pipeline
خط إسالة مقترح		Proposed New Water Network lines



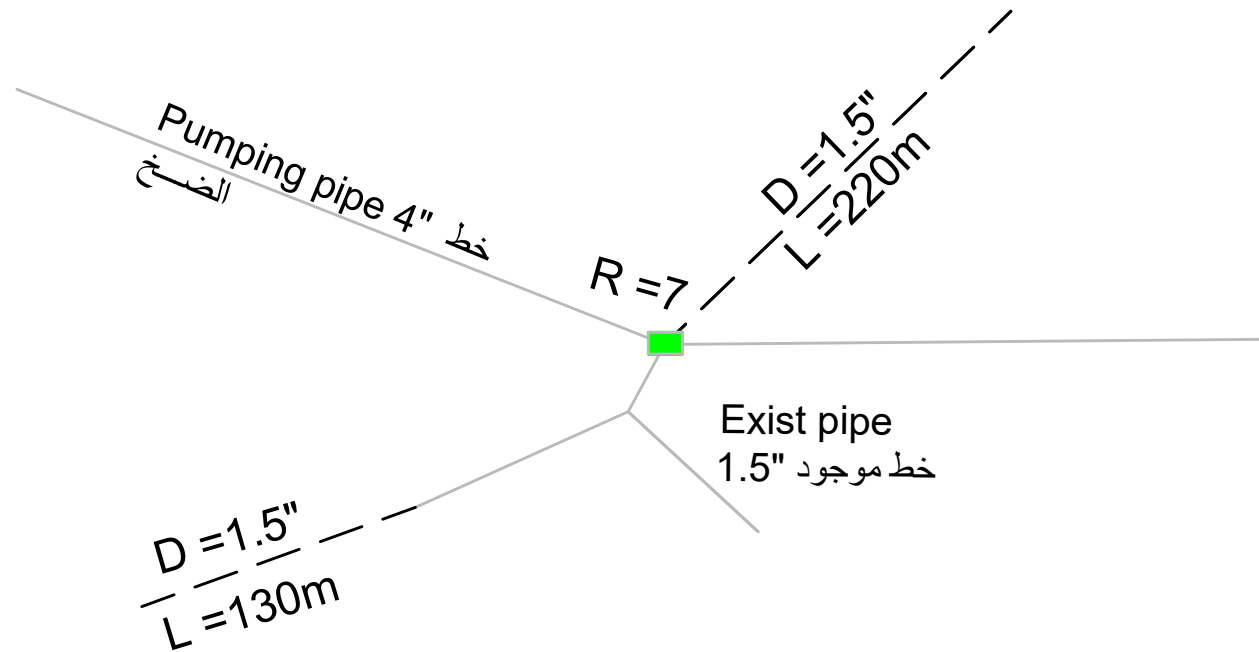
قرية الشبابة



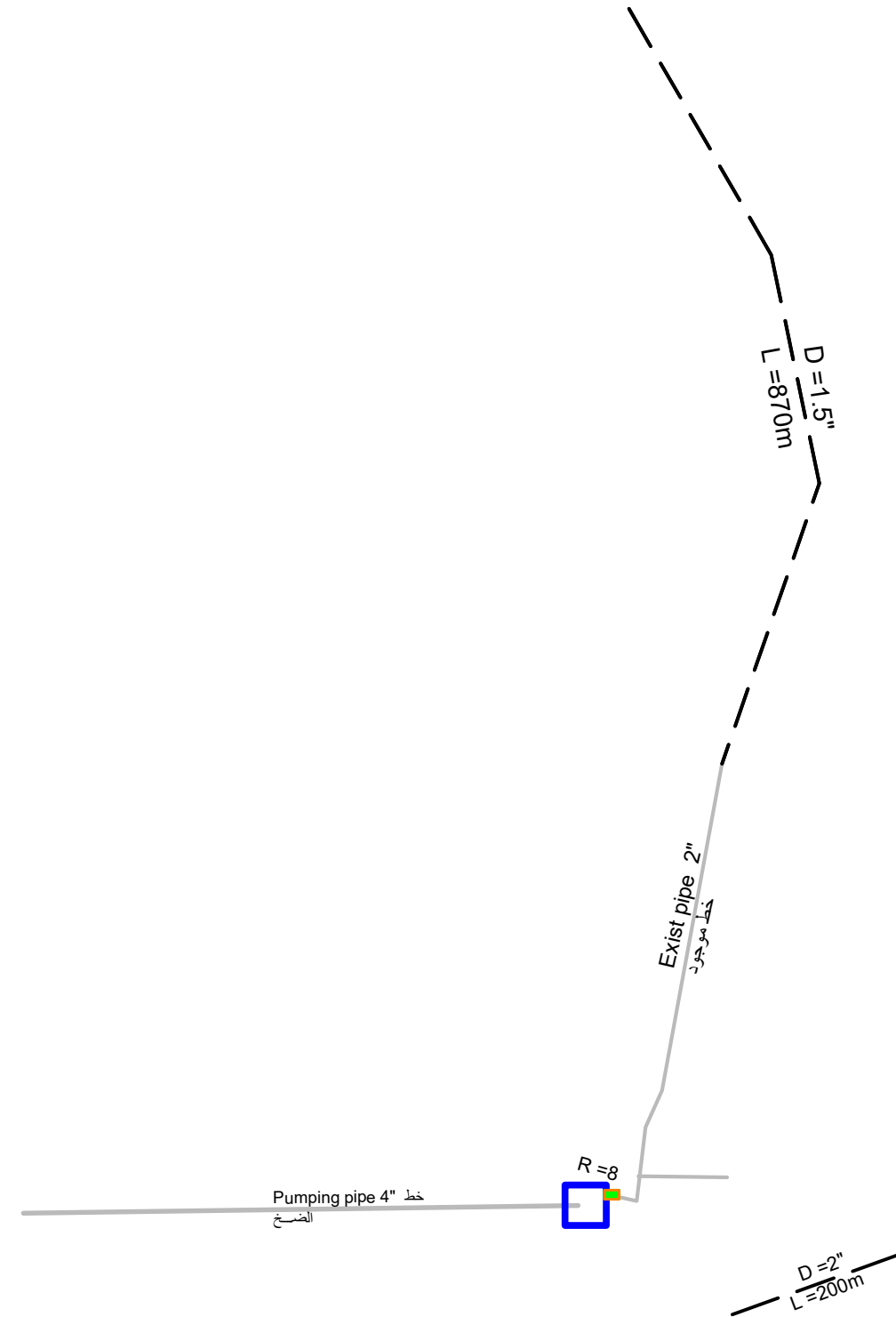
قرية الهتكة والسهيلة

4 هنش خط إسالة موجود	PE-110mm	Existing Water Network lines (110mm) 4 Inch dia.
2 هنش خط إسالة موجود	PE-75mm	Existing Water Network lines (63) 2 Inch dia.
1.5 هنش خط إسالة موجود	PE-50mm	Existing Water Network lines (50mm) 1.5 Inch dia.
2 هنش خط إسالة مقترح	PE-63mm	Proposed New Water Network lines (63mm) 2 Inch dia.
1.5 هنش خط إسالة مقترح	PE-50	Proposed New Water Network lines (50mm) 1.5 Inch dia.

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
Samaritan's Purse	Samaritan's Purse	REHABILITATIONS OF HESSE SALEM WATER PROJECT	Sub-Village Network with Map	SPRY - WASH Sector	Final Draft	North arrow	A1-32
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		MOCHA DISTRACT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					03/07/2025	As Shown	



قرية الشبابة



قرية الهتيكة والسهميلة

Details for Lines

خطوط الأنابيب الموجودة	—————	Existing Pipeline
خط إسالة مقترح	-----	Proposed New Water Network lines

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRACT - TAIZ GOV.

Drawing Title:

Sub-Village Water Network 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

03/07/2025

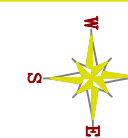
Paper Size:

A3

Scale

As Shown

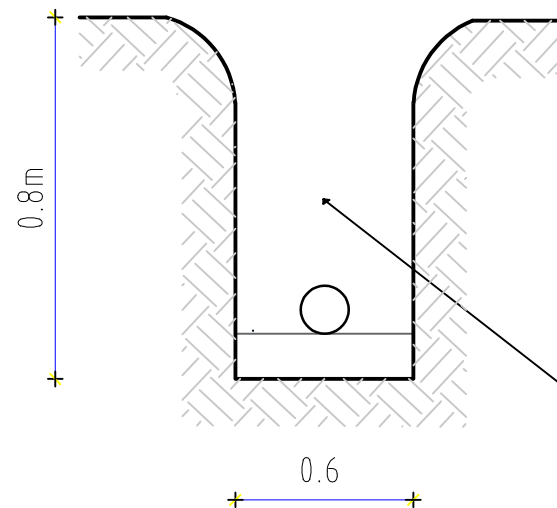
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Drawing No:

A1-33

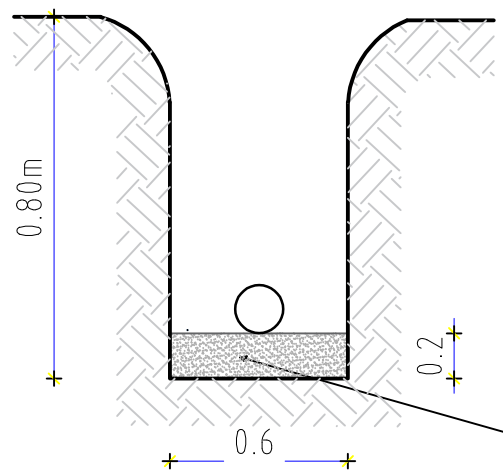
Step 01



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.

Excavation details
تفاصيل الحفر

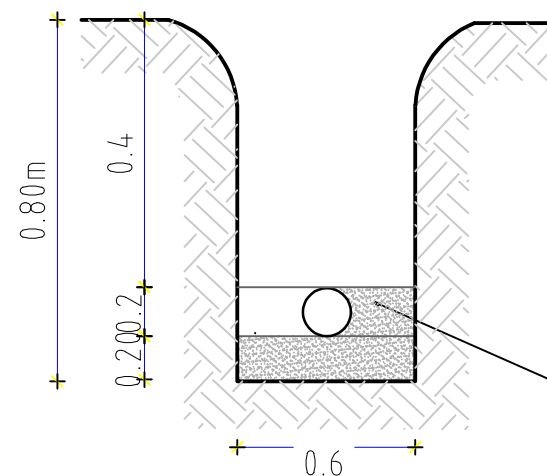
Step 02



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 او التراب الناعم تحت الانبوب بسماكة لا تقل عن ١٥ سم حتي منتصف الانبوب والدك عليه بالقدم.

Details for start Installation
تفاصيل بداية التركيب

Step 03

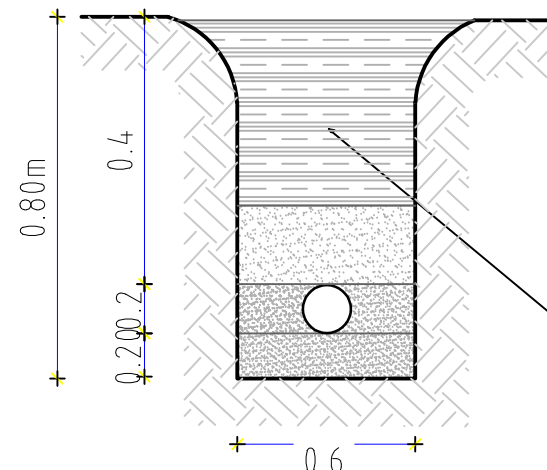


The pipes are placed after connecting them, testing the pumping into them, and checking that no water is leaking from them. Then backfilling with sand or soft soil is completed around and over the pipe with a thickness of no less than 20 cm.

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.

Details Backfilling Around the Pipe
تفاصيل الردم حول الانبوب

Step 04



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 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 HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

EXCAVATION, BACKFILL, WATER NETWORK DETAILS

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

Date

03/07/2025

Paper Size:

A3

Scale

As Shown

North:



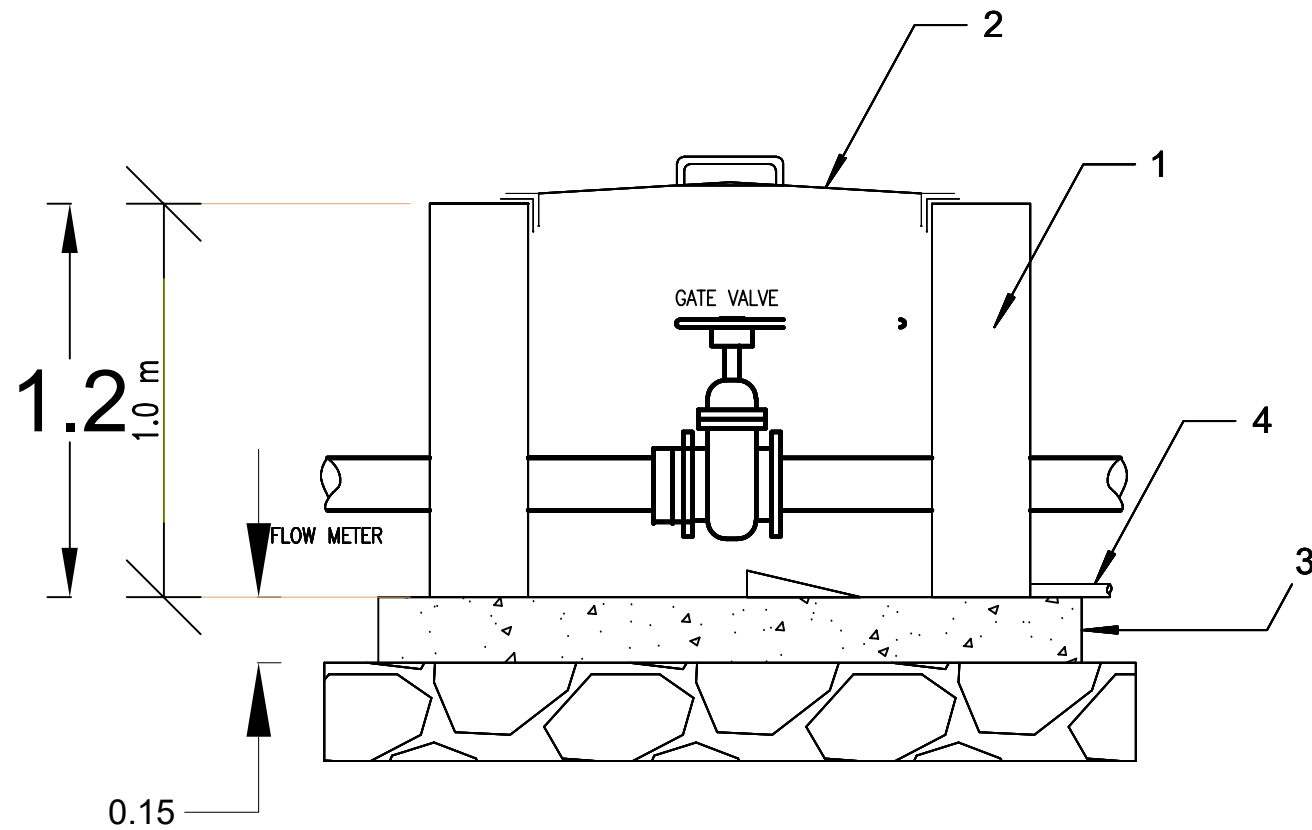
Drawing No:

A1-34

Notes :

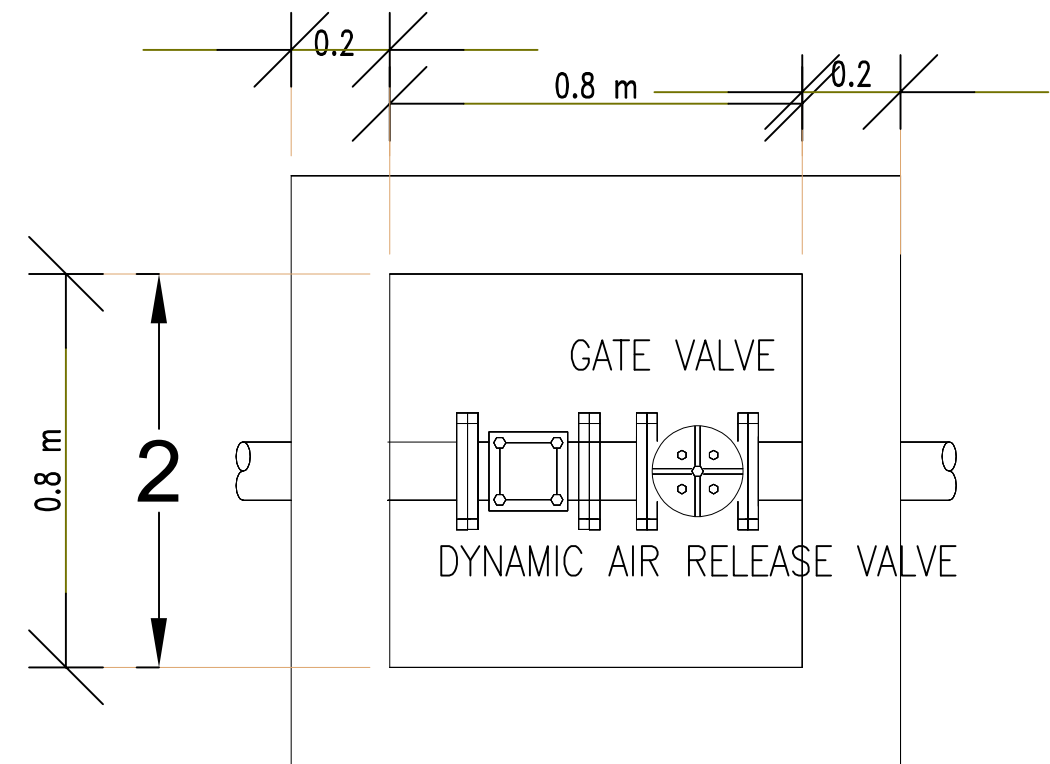
Length of the chamber will be adjusted according to the dimensions of the valves , connections and fitting so the valve shall be positioned with enough space for removing and reinstallation during maintenance .

All dimensions in meter.



Elevation View Scale 1:50

مسقط عرضي



Plan View Scale 1:50

مسقط أفقي

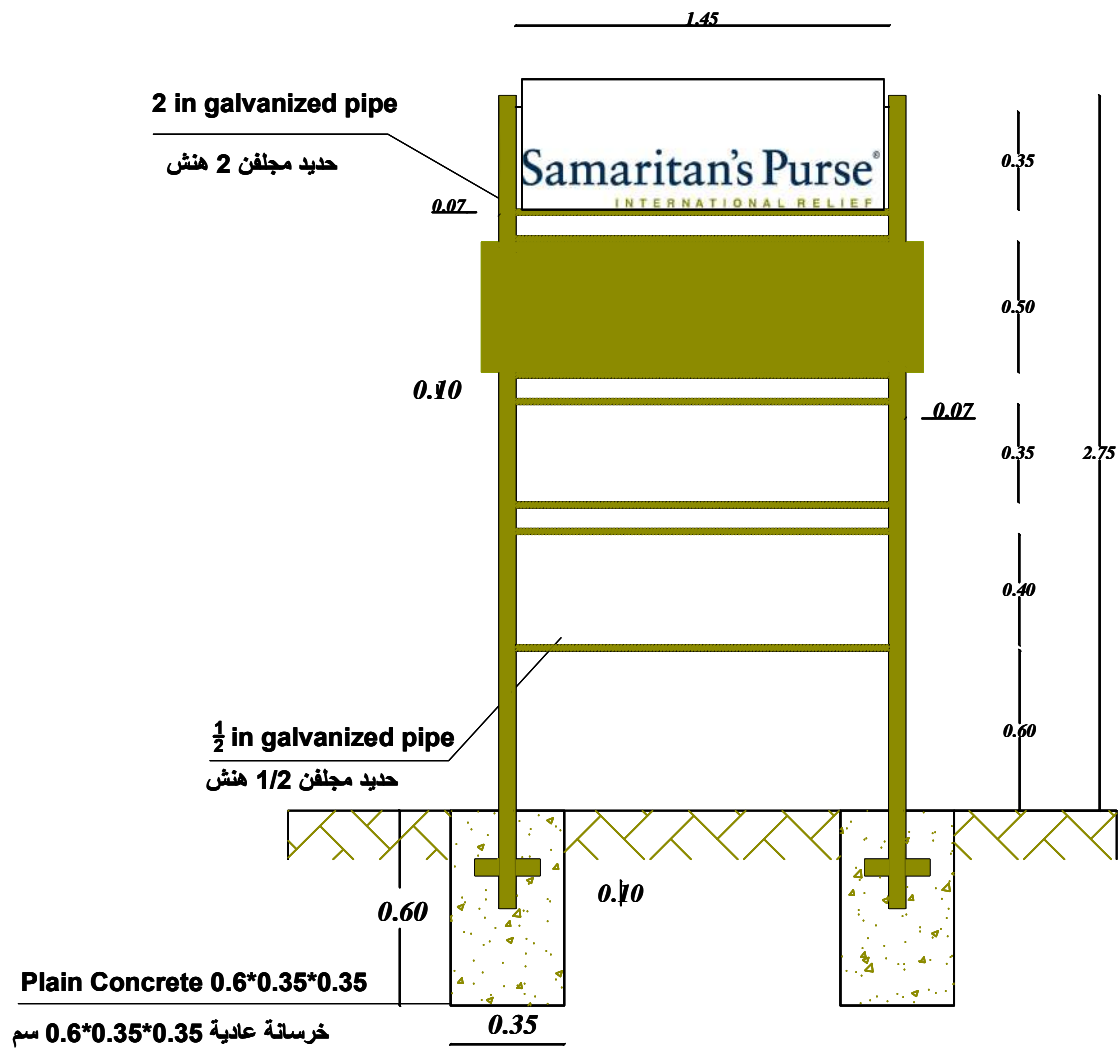
1.8

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

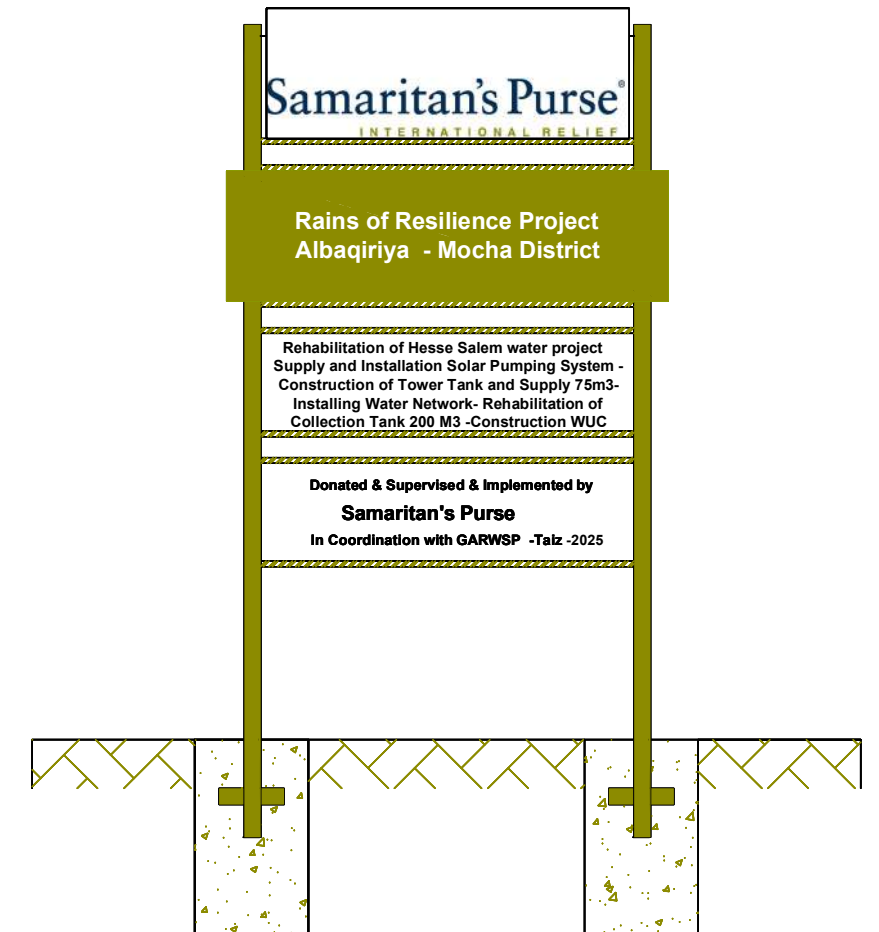
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF HESSE SALEM WATER PROJECT	VALVE ROOM DETAILS	SPRY - WASH Sector	Final Draft		A1-35
		Project Location:	Project Name:	Approved by:	Project No:		
		MOCHA DISTRICT - TAIZ GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	03/07/2025	
					Paper Size:	A3	
					Scale	As Shown	



Dimensions Details
تفاصيل الأبعاد



Plate Front side Elevation
واجهة اللوحة الأمامية



Backside Elevation
واجهة اللوحة الخلفية

Prepared by: Samaritan's Purse® INTERNATIONAL RELIEF	Funded by: Samaritan's Purse® INTERNATIONAL RELIEF	Project Title: REHABILITATIONS OF HESSE SALEM WATER PROJECT	Drawing Title: METAL SIGN FOR PROJECT COMPLETION	Designed and reviewed by: SPRY - WASH Sector	Status: Final Draft	North: N W E S	Drawing No: A1-36
		Project Location: MOCHA DISTRICT - TAIZ GOV.	Project Name: RAINS OF RESILIENCE 2025	Approved by: SPRY - WASH Sector	Project No: Date: 03/07/2025	Paper Size: A3 Scale: As Shown	

1.0 m

0.6 m

Samaritan's Purse®

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مشروع غيت الصمود- حسي سالم - مديرية المخاء

مشروع / اعادة تأهيل مشروع مياه حسي سالم

توريد وتركيب منظومة ضخ طاقة شمسية - انشاء خزان برجي سعة
75م3 - توريد وتركيب شبكة اسالة - تأهيل خزان مياهة تجميعي 200م3 - انشاء غرفة ادرة المشروع

تمويل وتنفيذ وإشراف / منظمة سماريتان بيرس الدولية

عام التنفيذ - 2025م

Rains of Resilience Project

Hesse Salem - Mocha District

Project / Rehabilitation of the Hesse Salem water project:

Supply and Installation Solar Pumping System - Construction of Tower Tank and Supply 75m3-
Installing Water Network- Rehabilitation of Collection Tank 200 M3 -Construction WUC

Donated & Supervised and Implementation by :- Samaritan's Purse

2025 Year

DETAILS MARBLE PAINTING

تفاصيل اللوحة الرخامية

Prepared
by:



Funded
by:



Project Title:

REHABILITATIONS OF HESSE
SALEM WATER PROJECT

Project Location:

MOCHA DISTRICT - TAIZ GOV.

Drawing Title:

PAINTED SIGN FOR PROJECT COMPLETION

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No:

03/07/2025

Paper Size: A3

Scale

As Shown

North:



Drawing No:

A1-37