

REHABILITATION OF GAWALA WATER SYSTEM:

SUPPLY AND INSTALL SOLAR PUMPING SYSTEM, CONSTRUCT NEW TOWER TANK,
INSTALL NEW WATER NETWORKS, AND CONSTRUCTION OF A PUMPING ROOM

DRAWING LIST:

NO	DRAWING TITLE	NO	DRAWING TITLE	NO	DRAWING TITLE
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		REHABILITATIONS OF GAWALLA WATER PROJECT	Table of contents	SPRY - WASH Sector	Final Draft		A1-01
		Project Location:	Project Name:	Approved by:	Project No.	Paper Size:	
		DARSAAD DISTRICT – ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					15/06/2025	As Shown	

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.

علمة ملاحظات

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

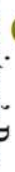
الخزان وجسم والجسور والاعمدة للقواعد الخرسانات اعمال جميع تنفيذ يجب -2
المياه وكمية المحددة الخلط نسب وبحسب الكميات جدول في المذكوره المقاومة بحسب ونقية مالهة غير المياه تكون ان ويجب ،خرسانة مكعب متر/لتر 180 عن تزيد لا الاختبارات اجراء مع ،الكميات بجدول المحددة الخلط نسب بحسب اسمنتى وبمحتوي تعليمات وبحسب يلزم ما وجميع الخرسانية المكعبات وعينات الانشاء لمواد اللازمة المهندس.

250 عن تقل لا الانشائية الخرسانية العناصر لجميع المستخدم الحديد قوة -3
2.ملم/نيوتن

للاعمال المقاول سيسخدمها التي الخرسانة وقالب الاخشاب تكون ان يجب -4
متهالكة وغير جديدة او نظيفة الخرسانة

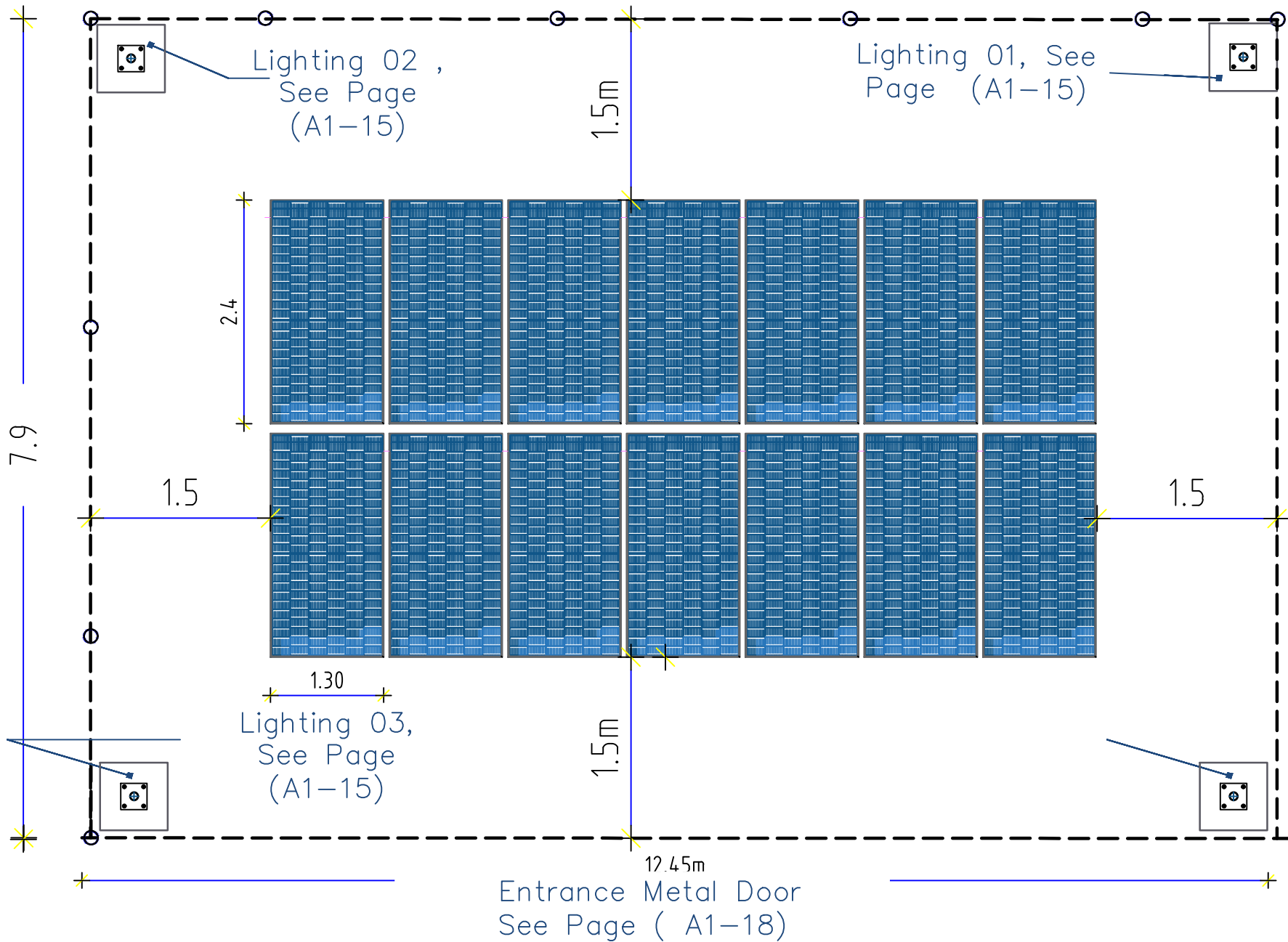
ايام 10 عن تقل لا ولمدة اليوم طوال النقية بالمياه الخرسانة وغمر الرش يجب -5
باكياس تكيس لها عمل يجب الخارج من الخزان وجسم المعلقة والجسور الاعمدة والليل النهار طوال بالمياه تشبيعتها ويتم الرش لعملية تخصص حيث شلتيه بساعة كل على

توريدها قبل المهندس قبل من المستخدمة المواد لجميع عينات اعتماد يجب -6
اعمال من وكذلك لاستلامها التخشيبية اعمال من الانتهاء عند المهندس ابلاغ يجب -7
واحد ييوم الموعد قبل ابلاغه ويجب المهندس بحضور الا الصب يتم ولا ،الحديد الكميات جداول بنود في موضح هو ما بحسب الاعمال جميع تنفيذ يجب -8
بورسومات
80 عن يقل لا الادوار بين للاعمدة الرئيسي للحديد (الاشتراك) التراكب طول -9
سم.

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 Samaritan's Purse® INTERNATIONAL RELIEF		 Samaritan's Purse® INTERNATIONAL RELIEF		REHABILITATIONS OF GAWALLA WATER PROJECT		GENERAL NOTES		SPRY - WASH Sector		Final Draft				A1-02			
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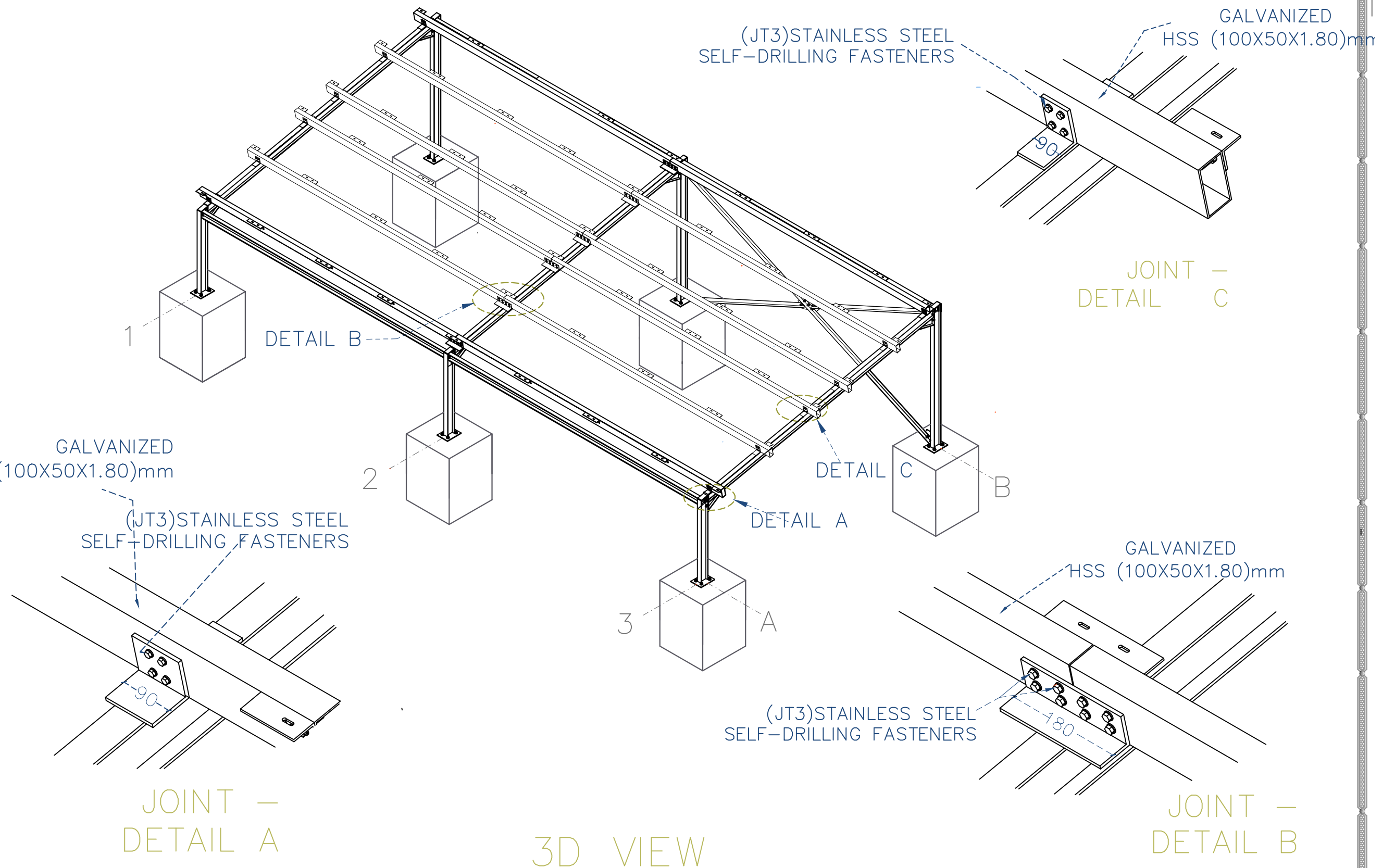
Notes:

- 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).

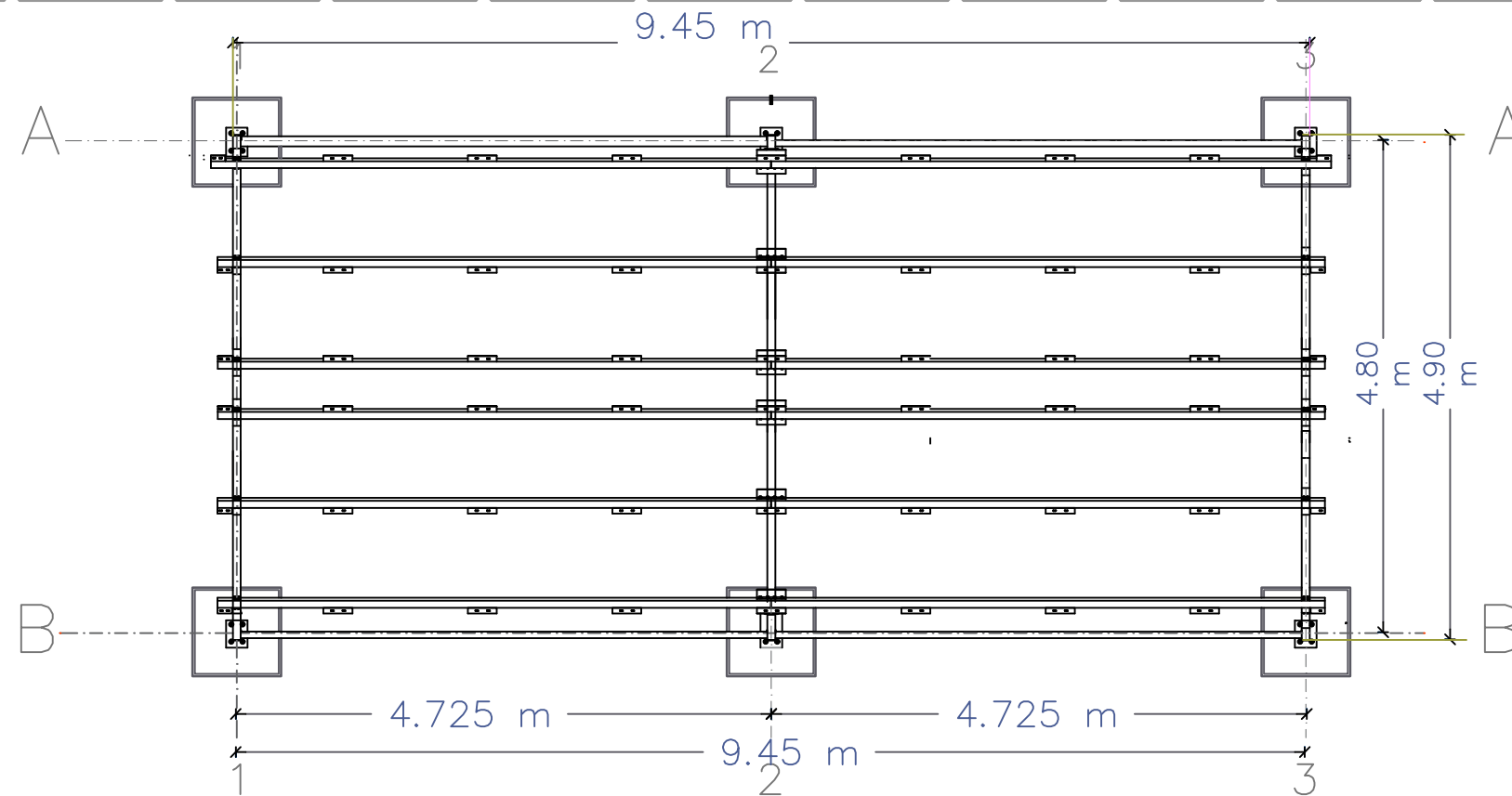


Solar Site plan

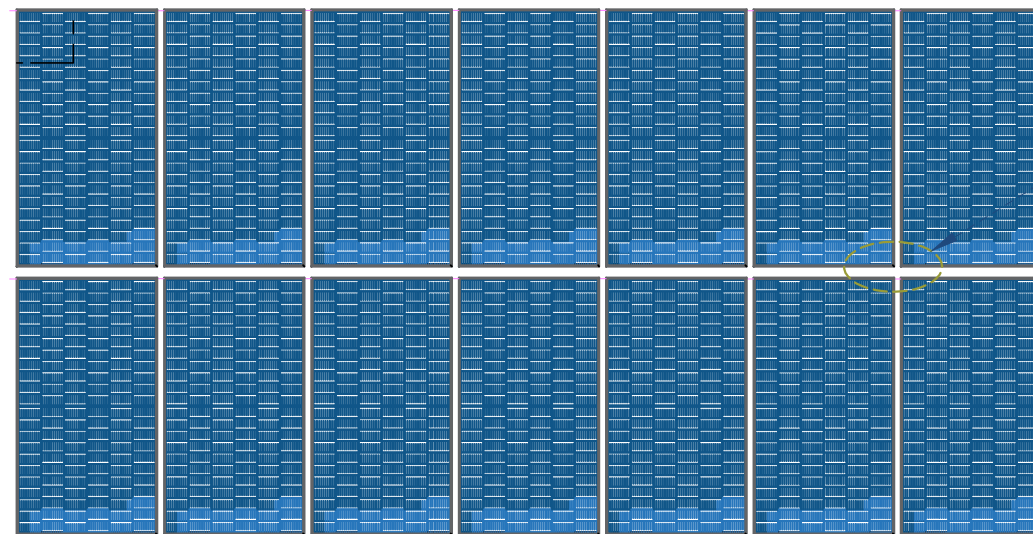
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					15/06/2025	As Shown	



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		REHABILITATIONS OF GAWALLA WATER PROJECT	SOLAR MOUNT 3D MODEL VIEW	SPRY - WASH Sector	Final Draft		A1-04
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					15/06/2025	As Shown	

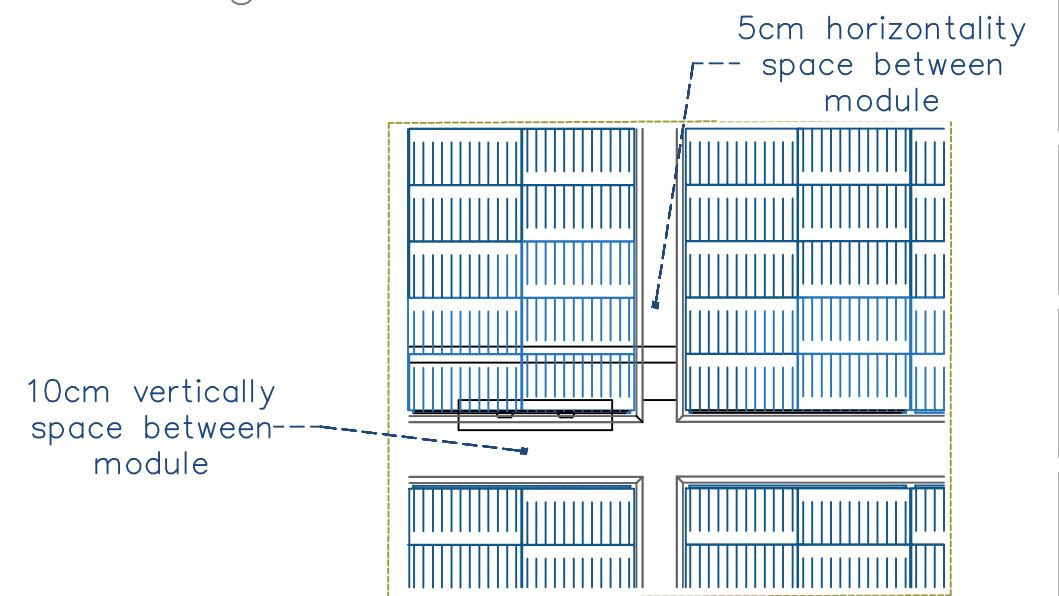


FRAMING PLAN



PLAN OF SOLAR PANEL ARRAY

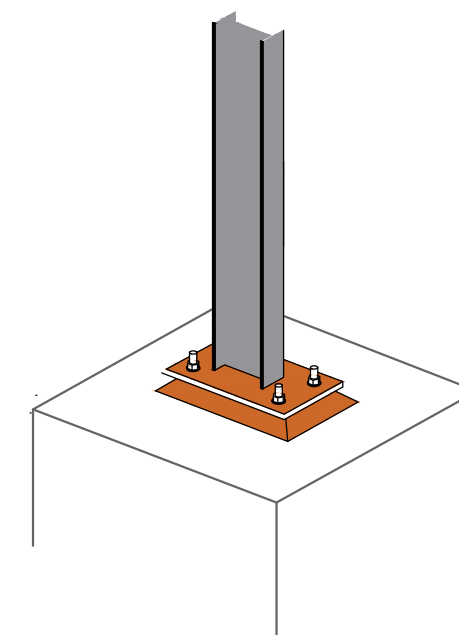
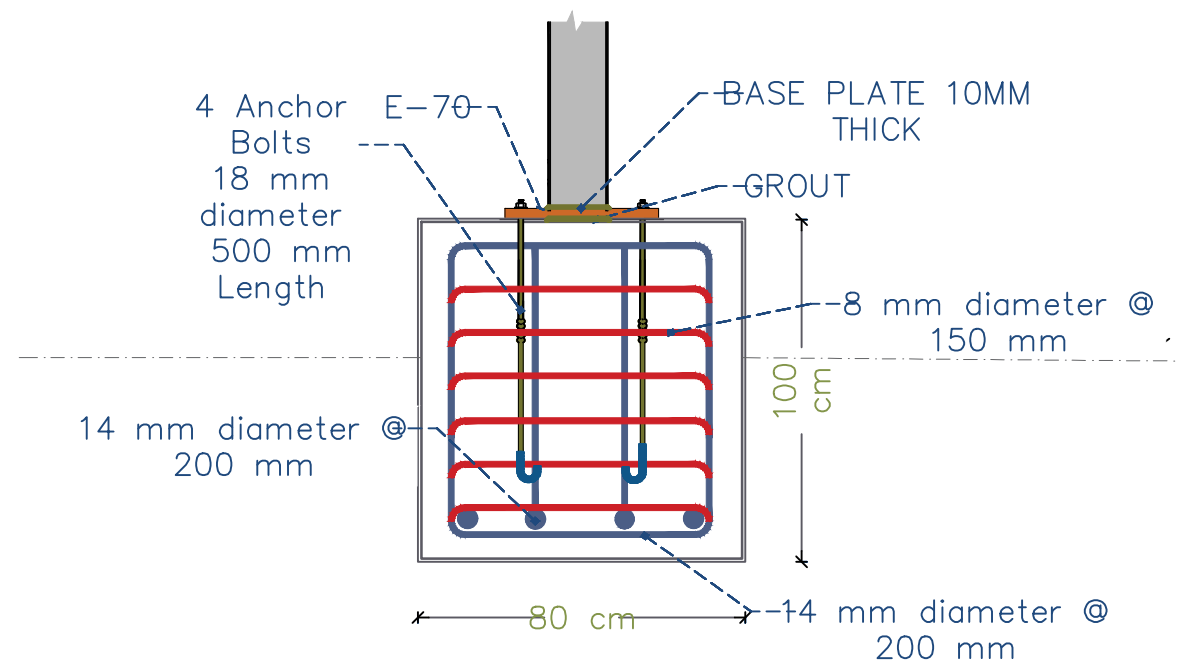
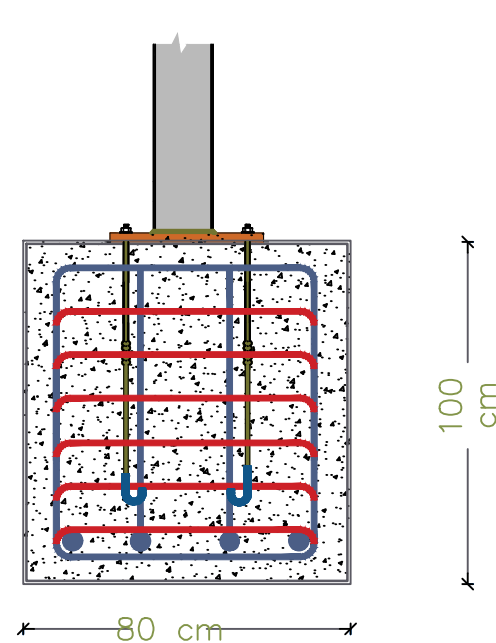
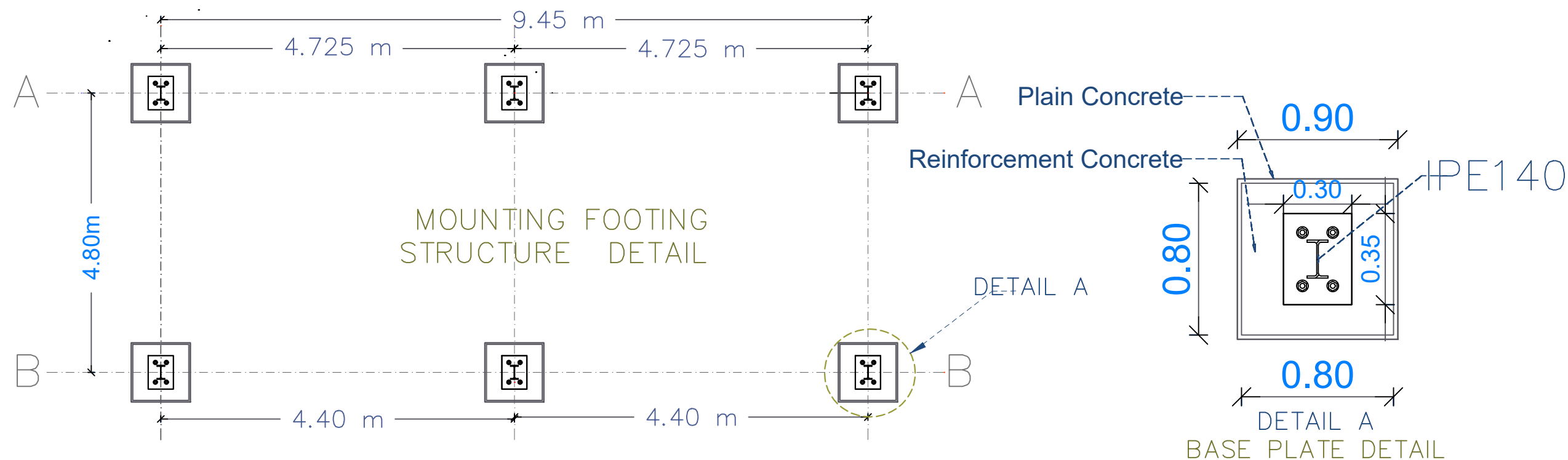
DETAIL A



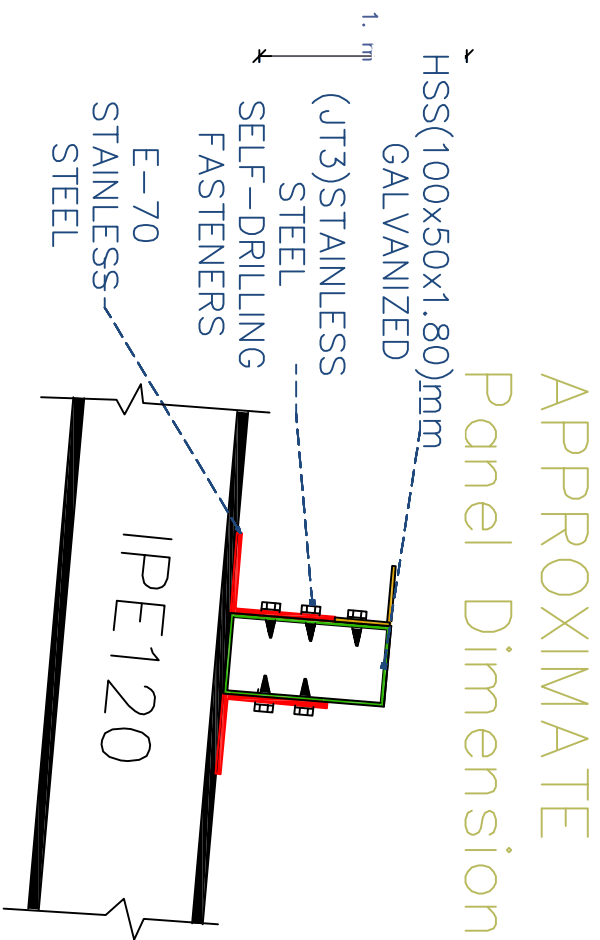
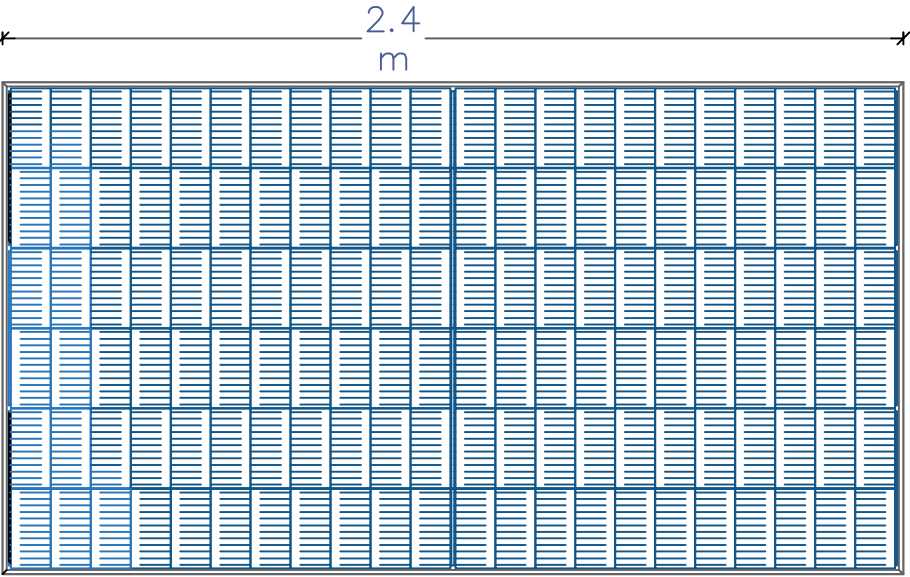
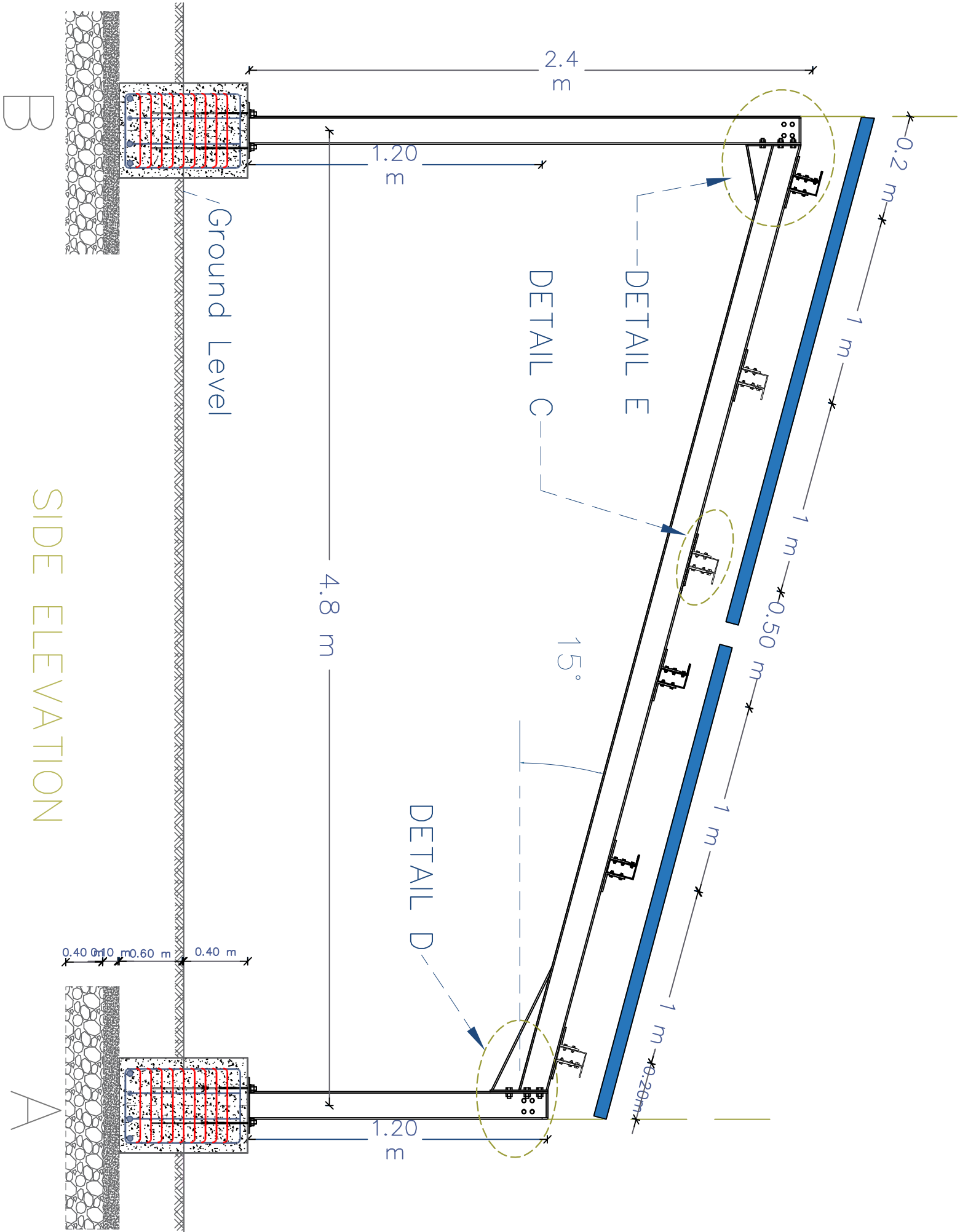
SOLAR PANEL DETAIL A

FULL FRAMING PLAN

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					15/06/2025	As Shown	

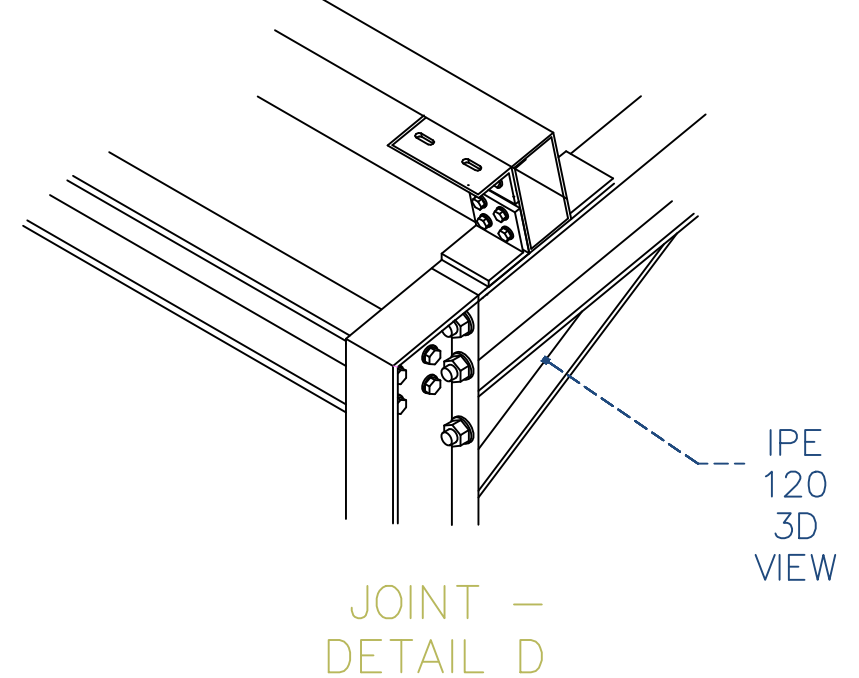
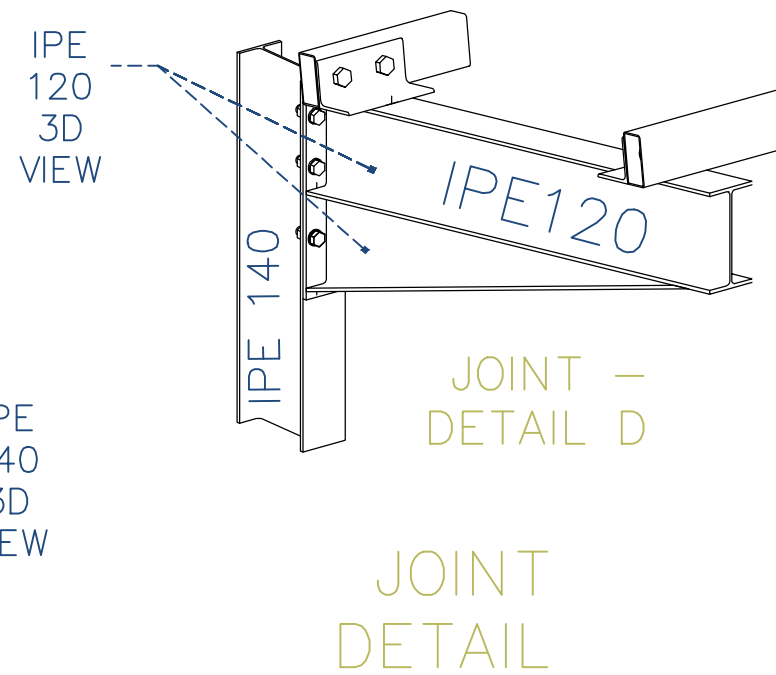
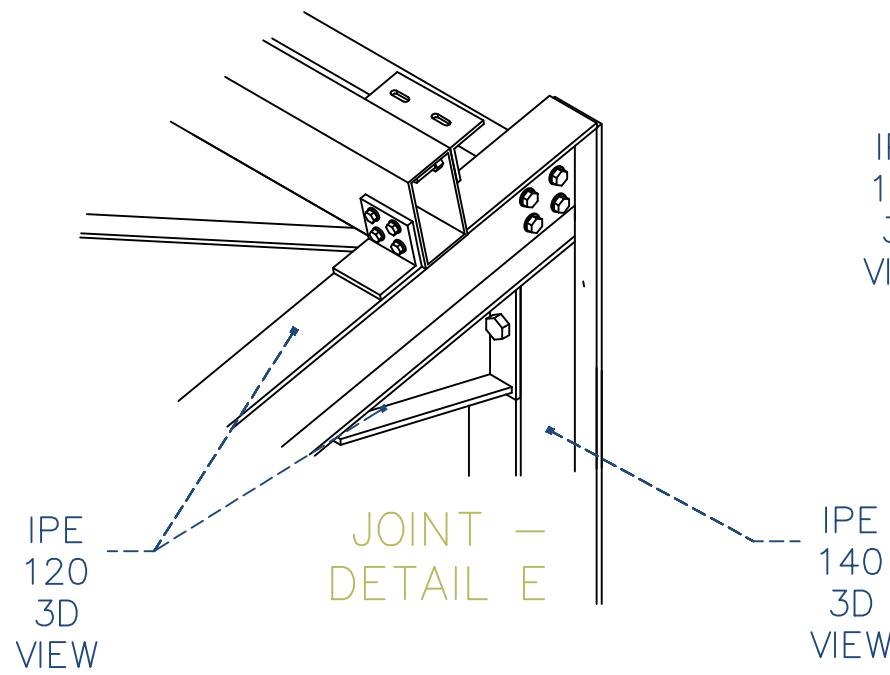
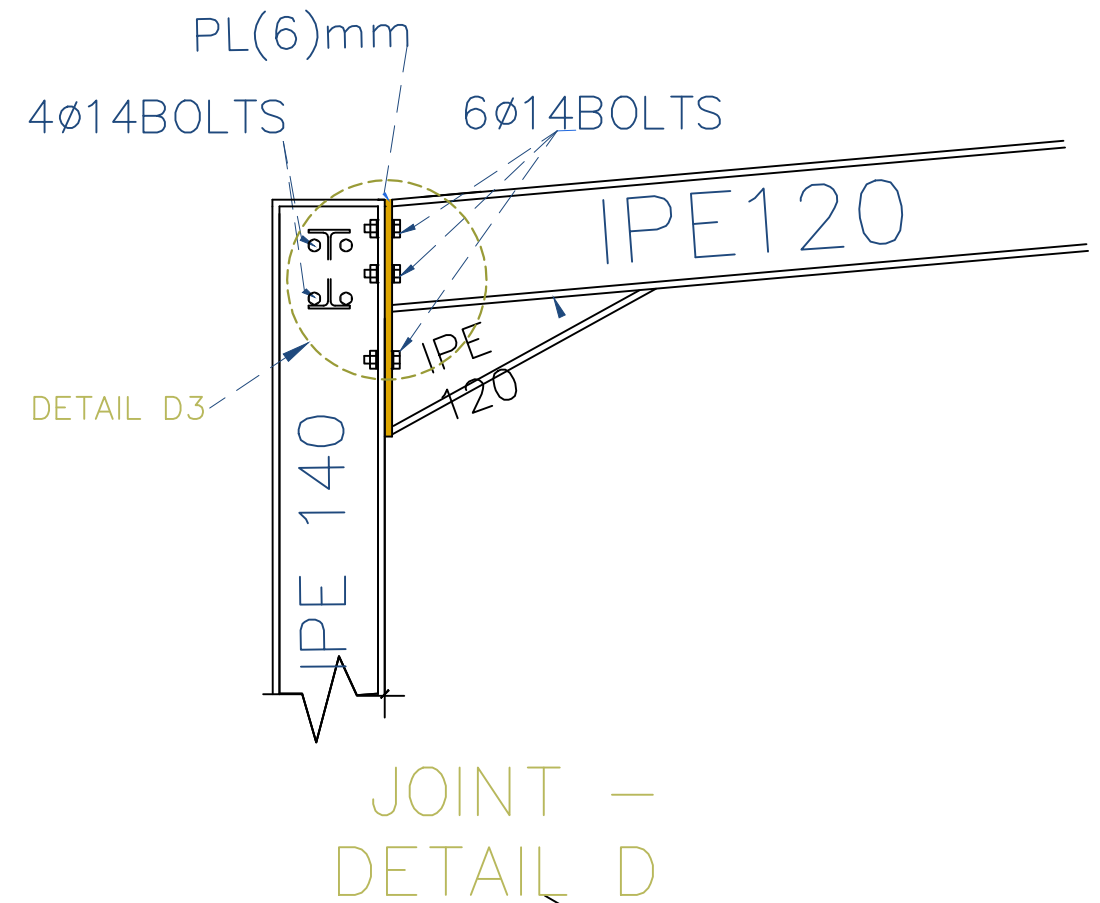
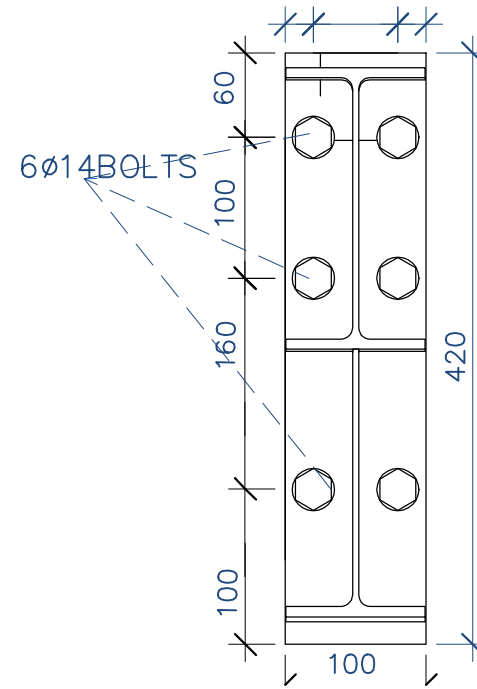
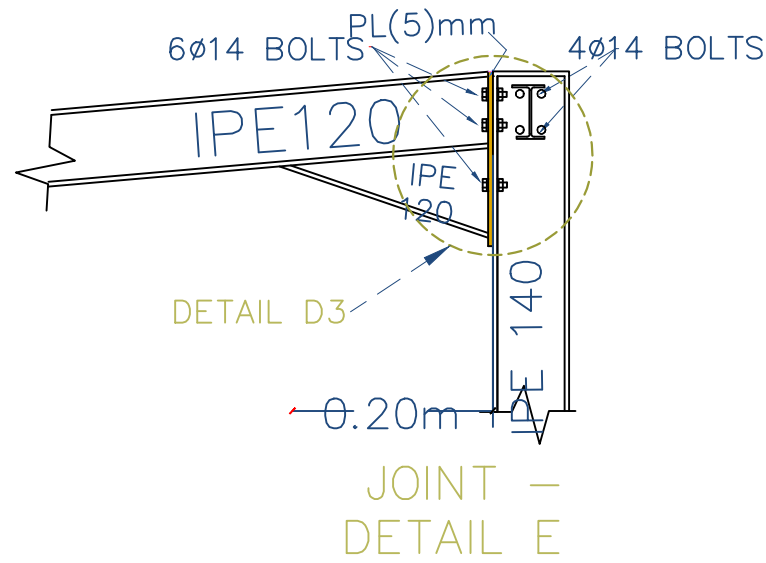


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					15/06/2025	As Shown	

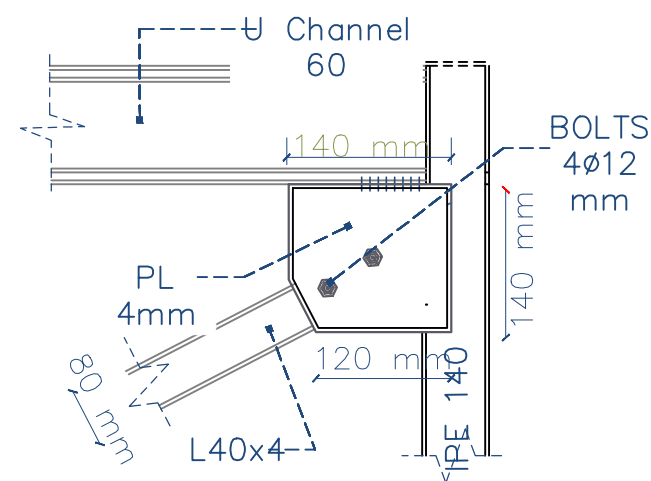
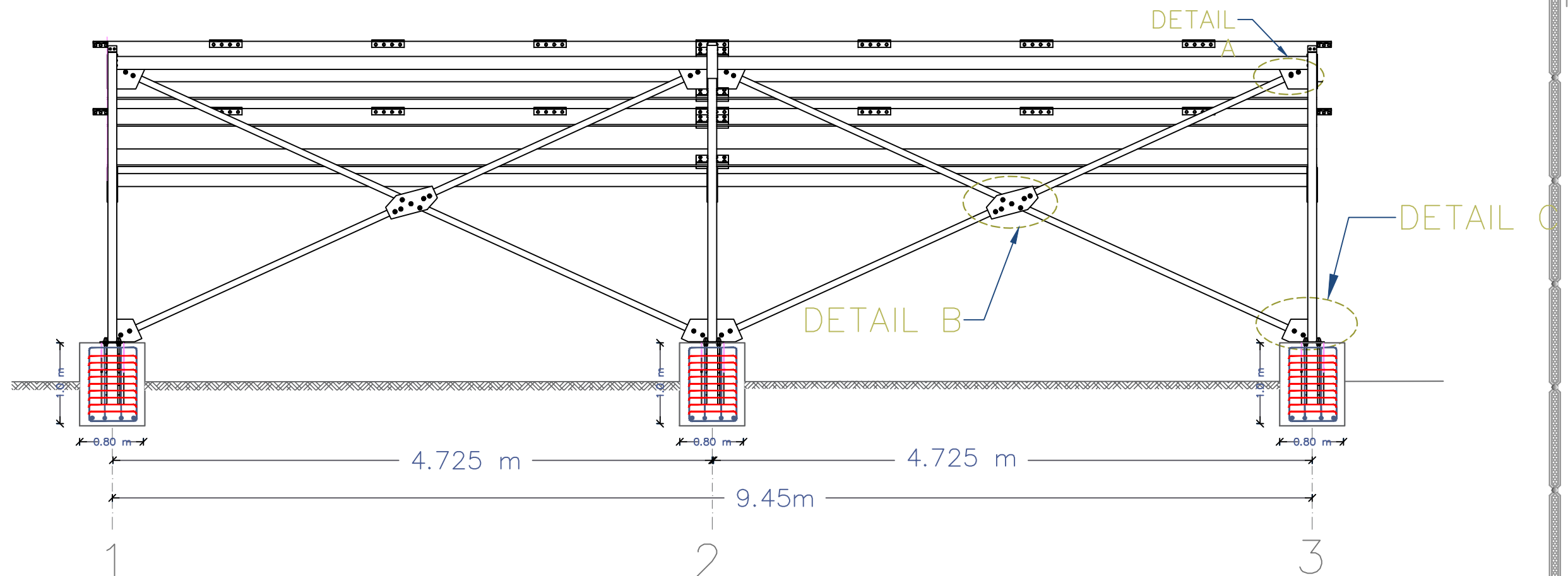


JOINT -
DETAIL C

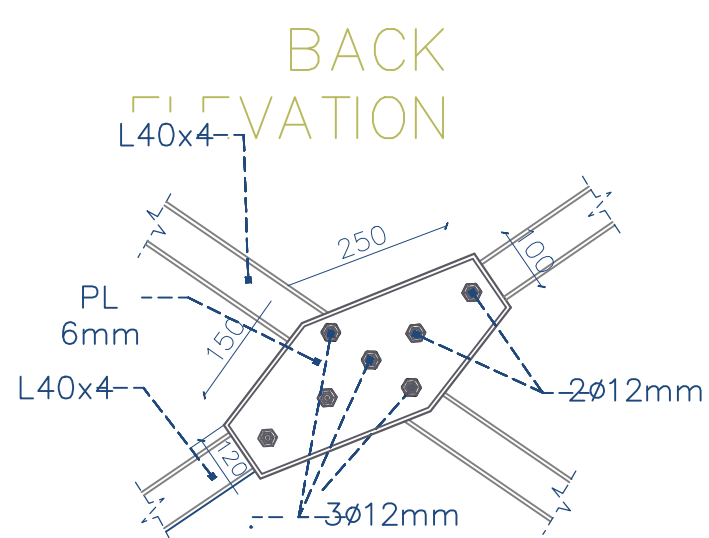
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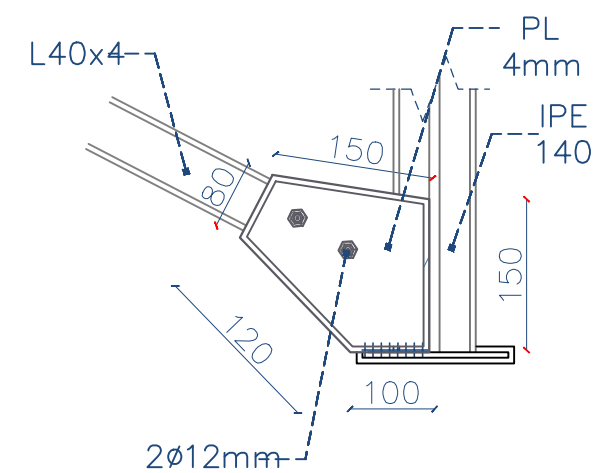
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		DARSAAD DISTRICT — ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date: 15/06/2025	Scale: As Shown	



JOINT —
DETAIL A

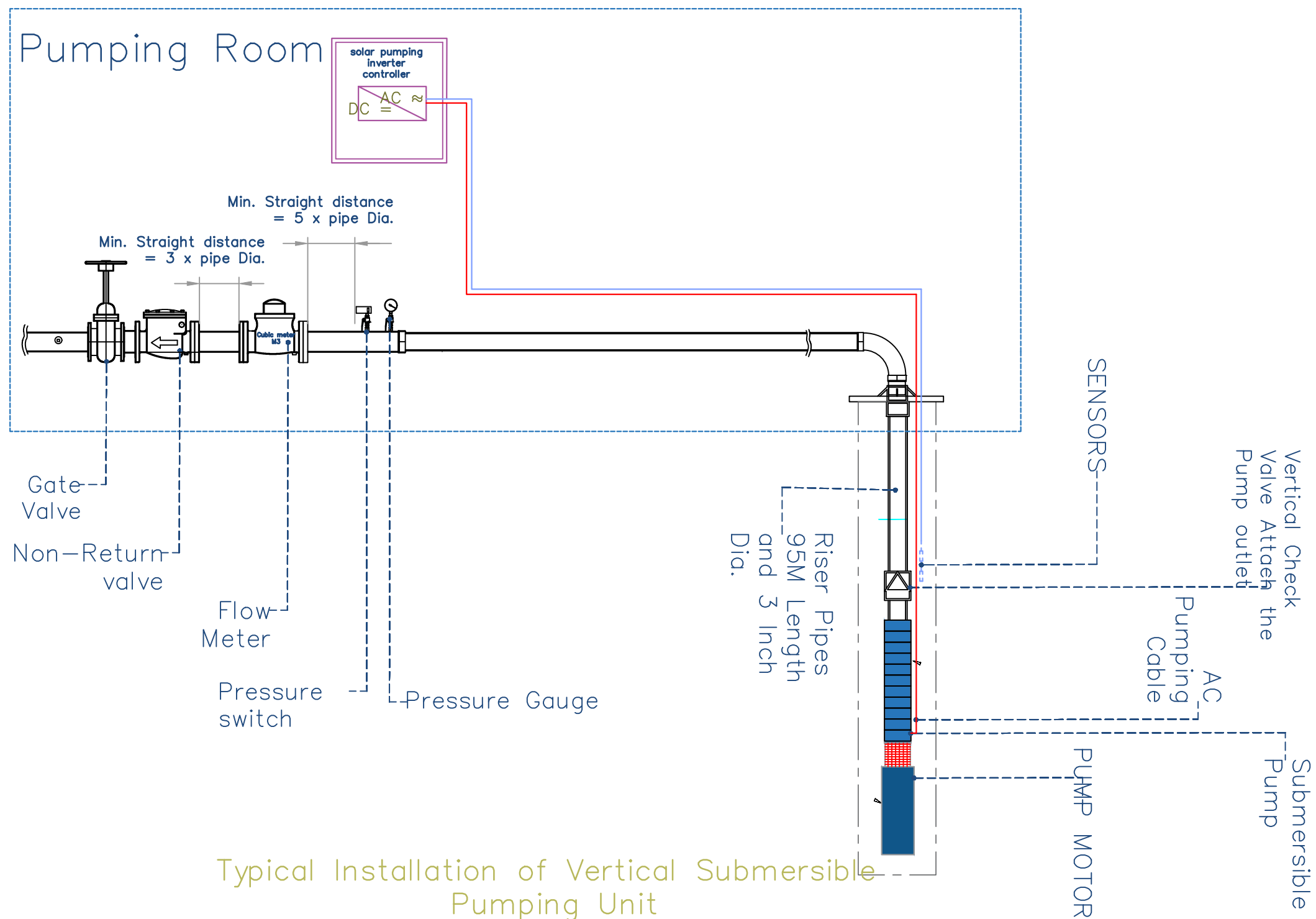


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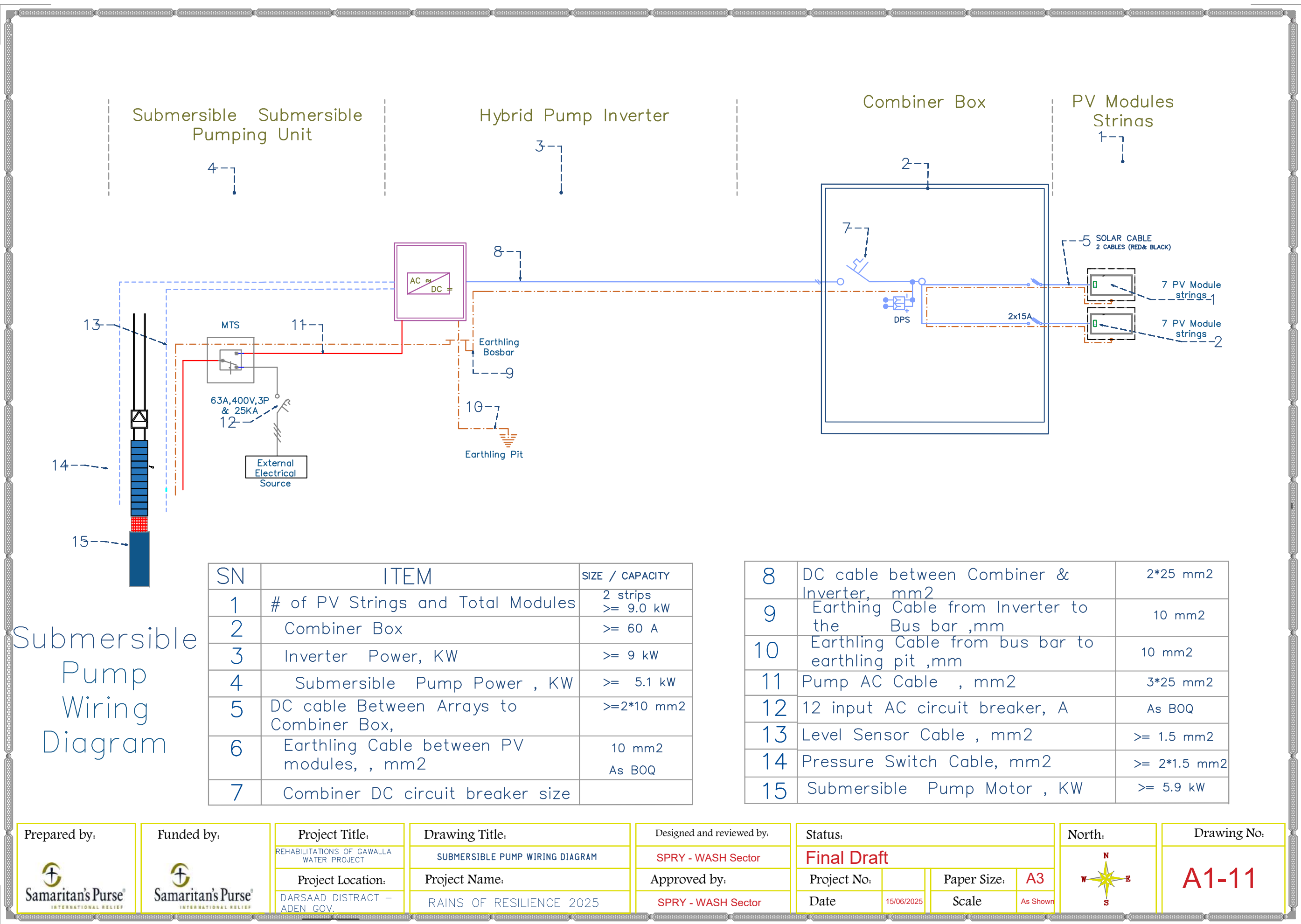


JOINT —
DETAIL C

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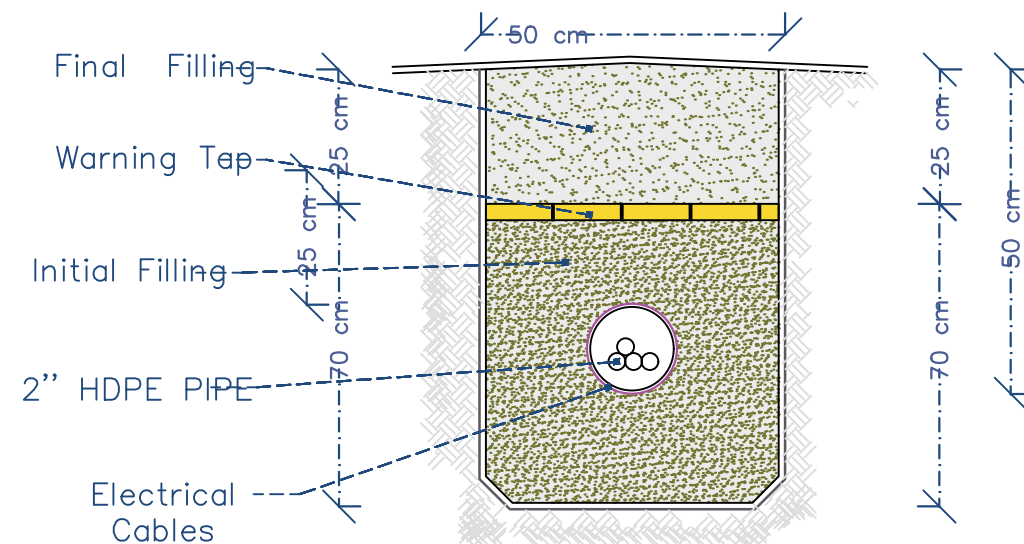
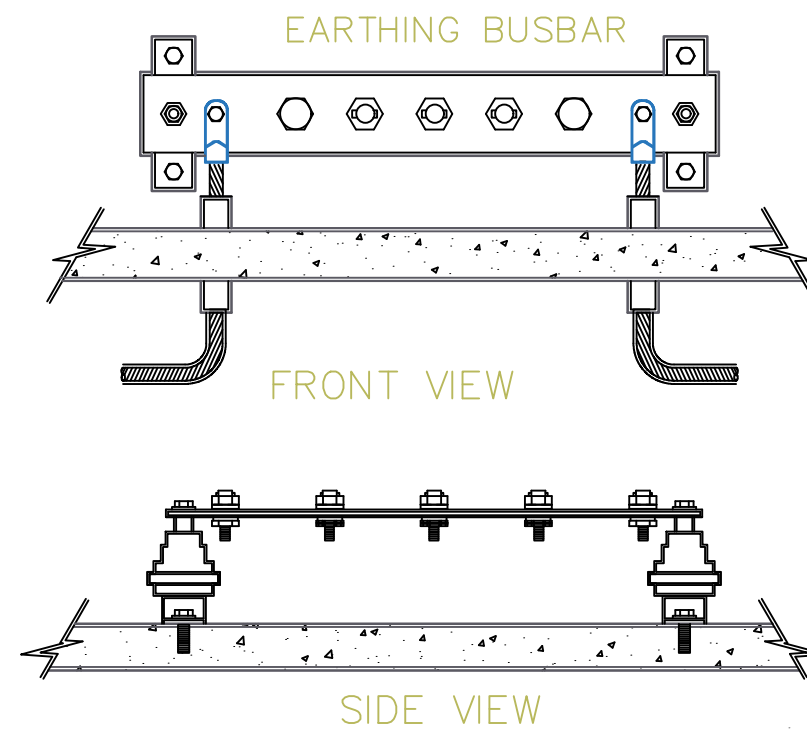
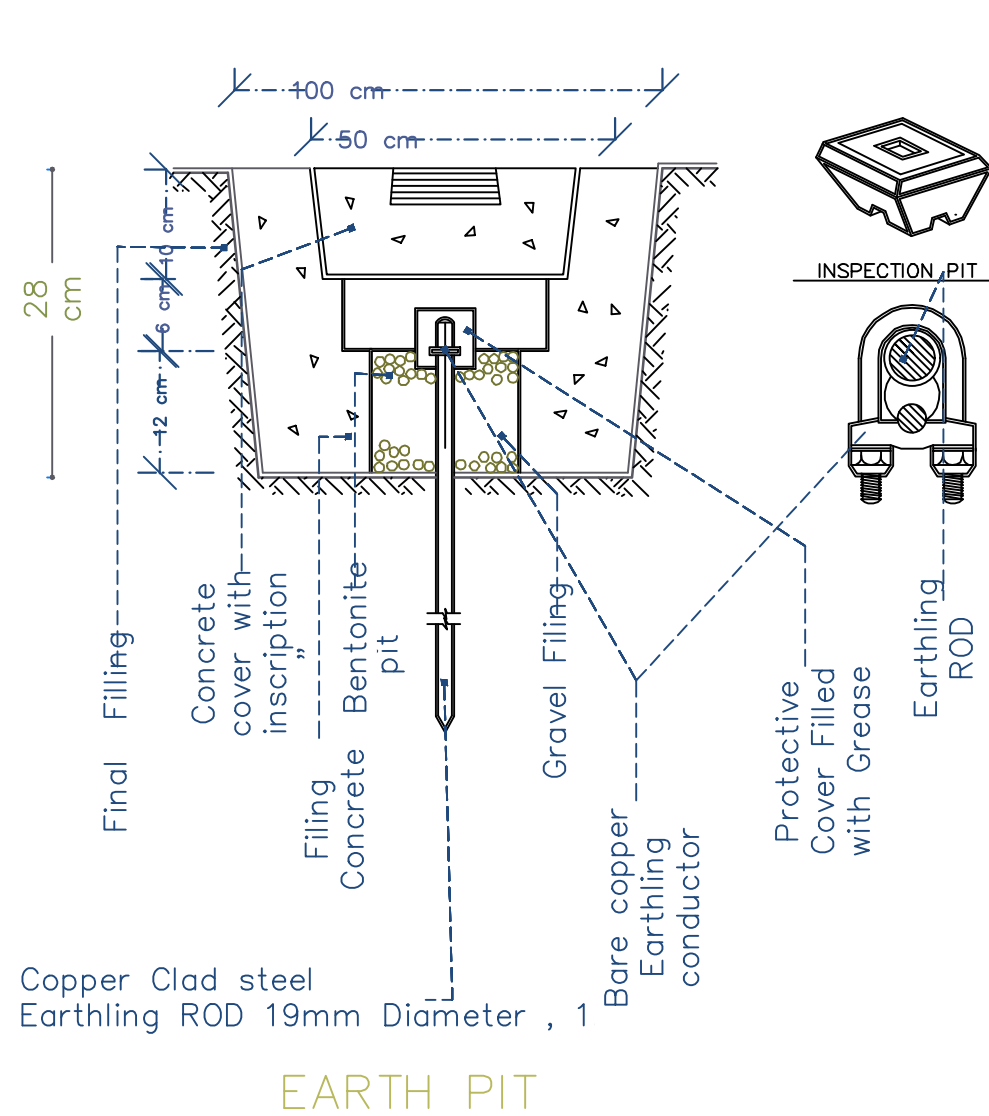
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		DARSAAD DISTRICT - ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	As Shown
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1. C channel 80x40 x 5mm
2. Angle 50x50x4mm
3. Cable Tray size will be according to the number of cables 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



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		REHABILITATIONS OF GAWALLA WATER PROJECT	COMBINER BOX AND CABLE TRAY DETAILS	SPRY - WASH Sector	Final Draft					
		Project Location:	Project Name:	Approved by:	Project No:		Paper Size:	A3		A1-12
		DARSAAD DISTRACT – ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	15/06/2025	Scale	As Shown		



EARTH PIT DETAILS

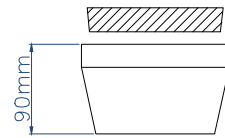
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		DARSAAD DISTRICT - ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
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COPPER ROD

OVERALL
LENGTH
1200 mm.

CONCRETE EARTH HOUSING SECTION



AIR TERMINAL BASE
COPPER CLAMP
25mm COPPER TAPE

AIR ROD
1000mm.
LONG

COPPER CLAMP

25mm COPPER TAPE

LIGHTNING PROTECTION POLE
ROUND TAPERED STEEL POLE
GALVANIZED

TEST BAR AND LINK

CONCRETE EARTH PIT

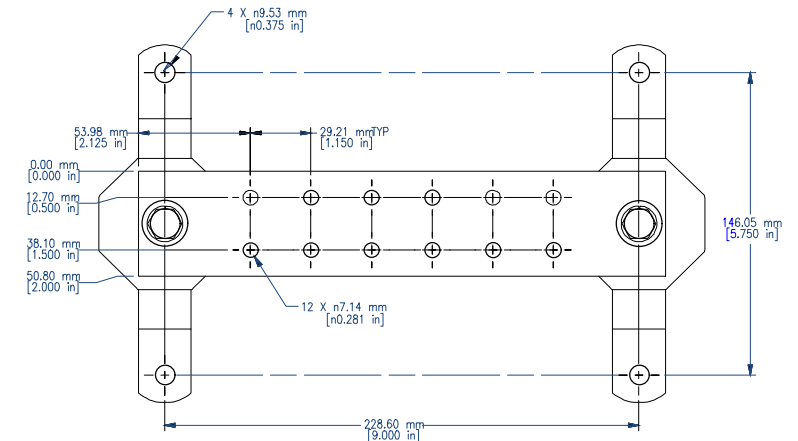
GROUND LEVEL

EARTH ROD CLAMP

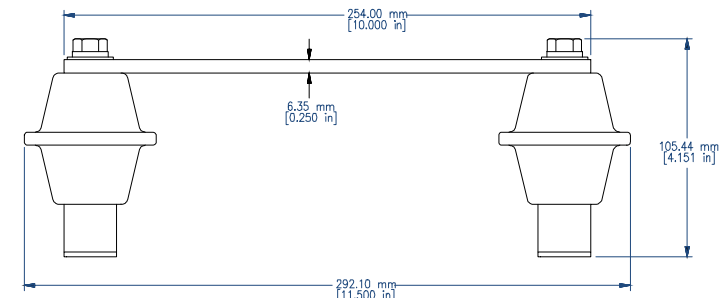
25 SQ.MM
BARE COPPER

CONCRETE
EARTH PIT

16mmØ EARTH ELECTRODE
RODS OF 1200mm LONG



ASSEMBLY - TOP VIEW

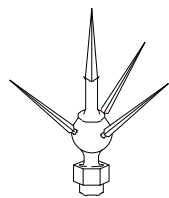


ASSEMBLY - SIDE VIEW

EARTHING BUSBAR

GROUND ROD.

AIR TERMINAL TIP



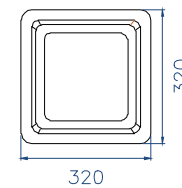
AIR
TERMINAL

AIR TERMINAL SADDL

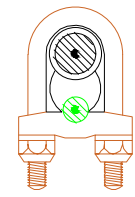


5sq.mm BARE COPPER EARTH
12-16mmØ COPPER
RODS OF 1200mm LONG

ELEVATION



CONCRETE EARTH HOUSING PLAN



CLAMP

LIGHTNING PROTECTION SYSTEM

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF GAWALLA
WATER PROJECT

Project Location:

DARSAAD DISTRICT -
ADEN GOV.

Drawing Title:

LIGHTNING PROTECTION SYSTEM

Project Name:

RAINS OF RESILIENCE 2025

Designed and reviewed by:

SPRY - WASH Sector

Approved by:

SPRY - WASH Sector

Status:

Final Draft

Project No.

Date

15/06/2025

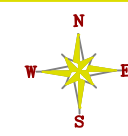
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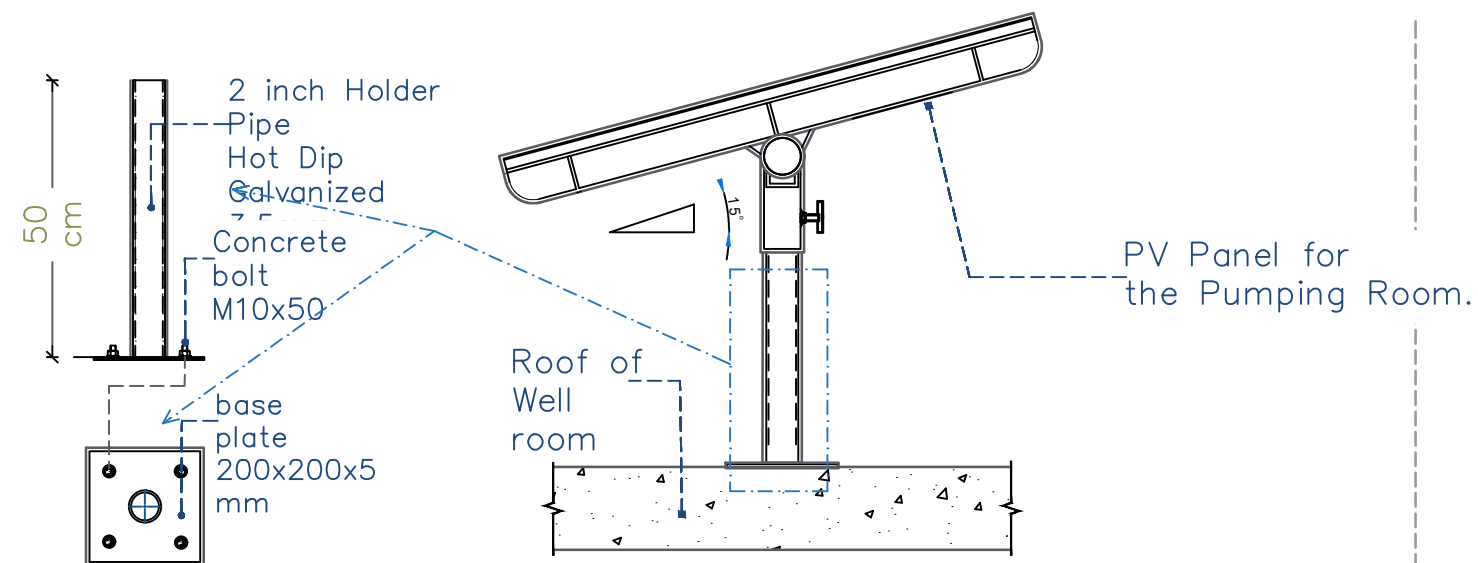
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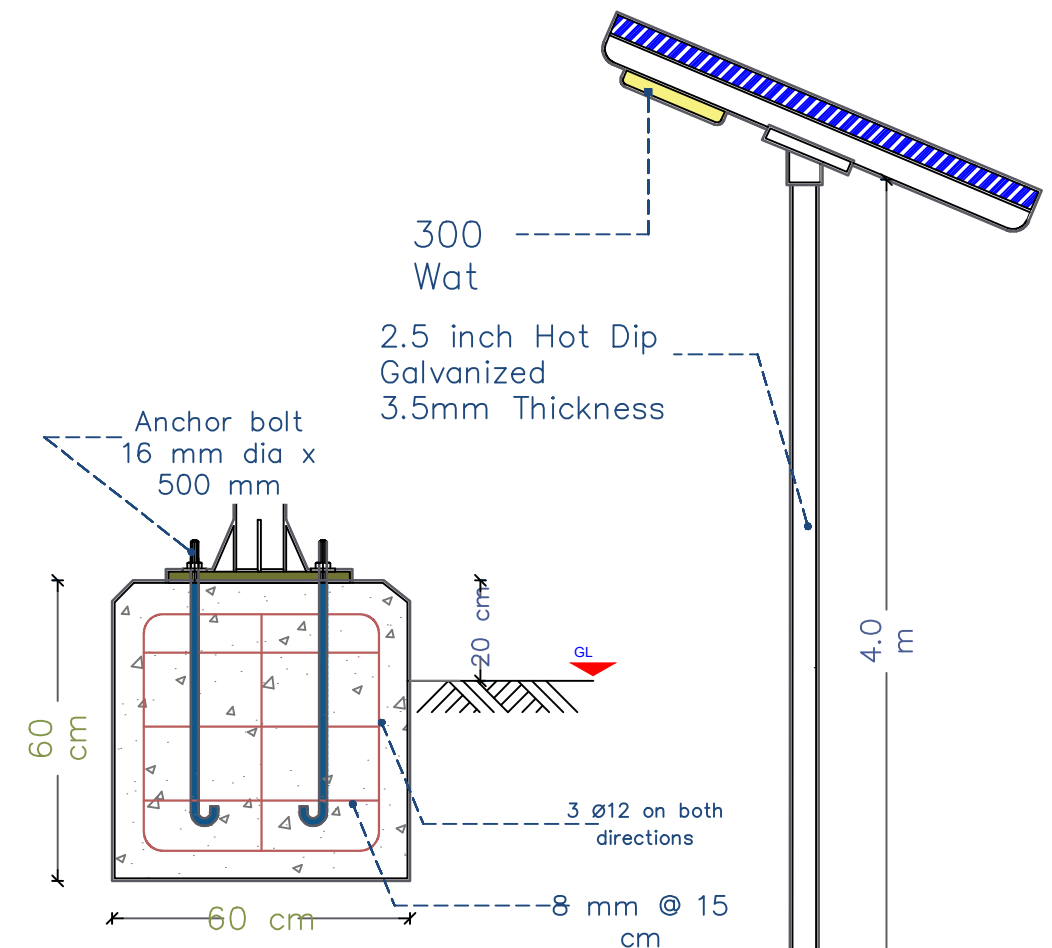
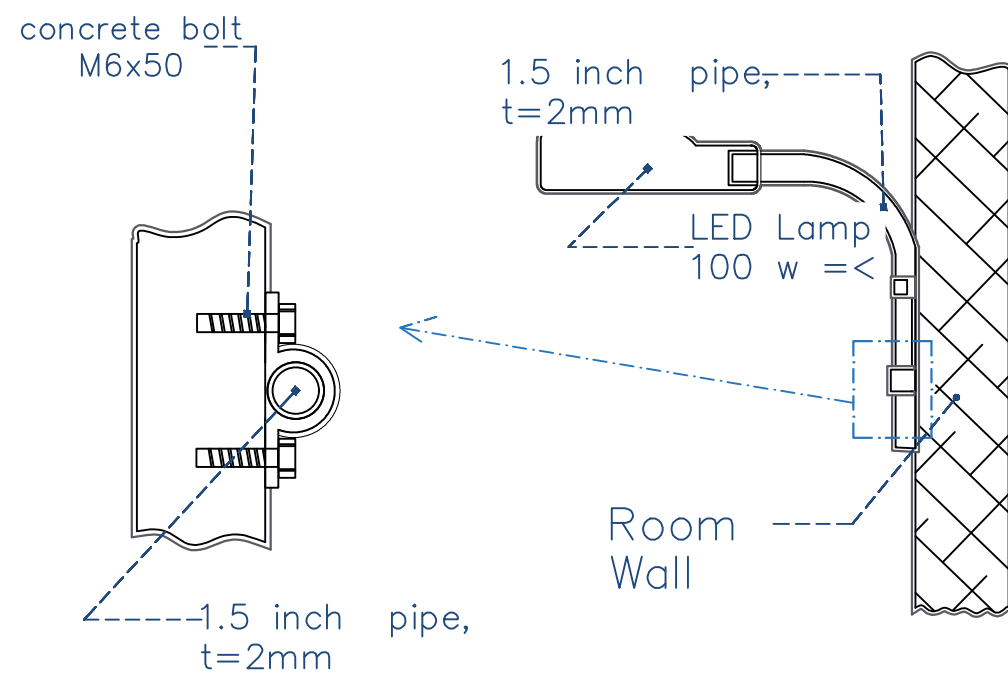


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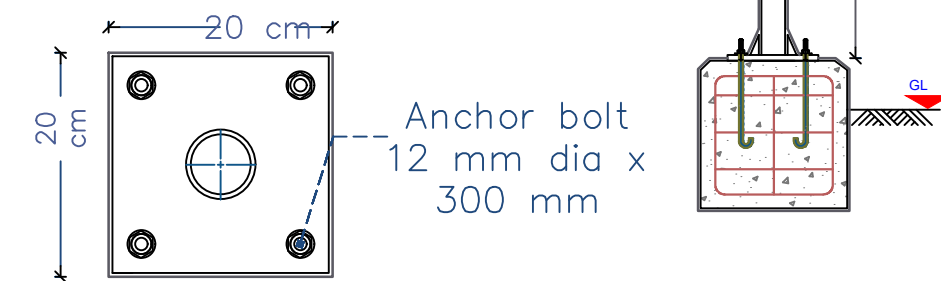
A1-14



PV PANEL OF ROOM LIGHTING
TYPICAL INSTALLATION



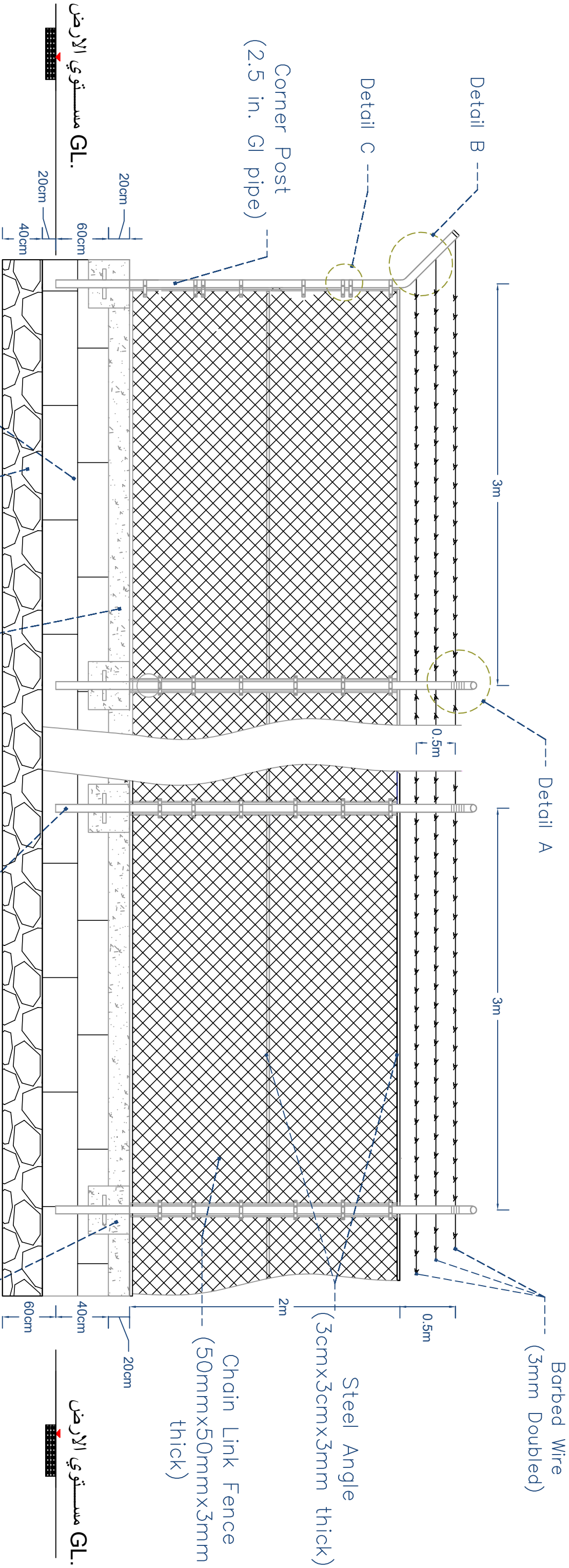
POLE CONCRETE
FOUNDATION DETAILS



BASE PLATE
DETAIL

DETAIL — B

Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF GAWALLA WATER PROJECT	SITE LIGHTING DETAILS	SPRY - WASH Sector	Final Draft		A1-15
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		DARSAAD DISTRICT — ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					15/06/2025	As Shown	



Square Stone Masonry

Base Stone Construction

Concrete Beam (20cmx20cm)

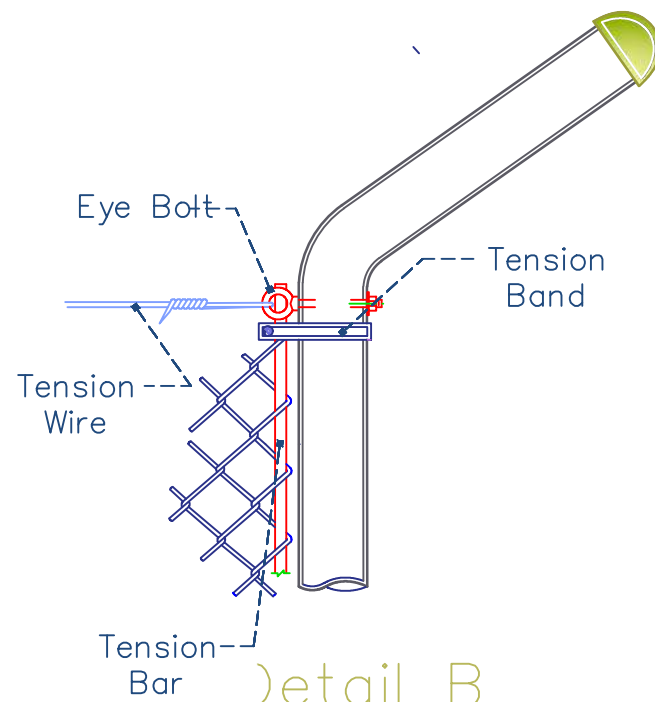
Intermediate Post (2 in. GI pipe)

Concrete Beam (40cmx40cmx50cm)

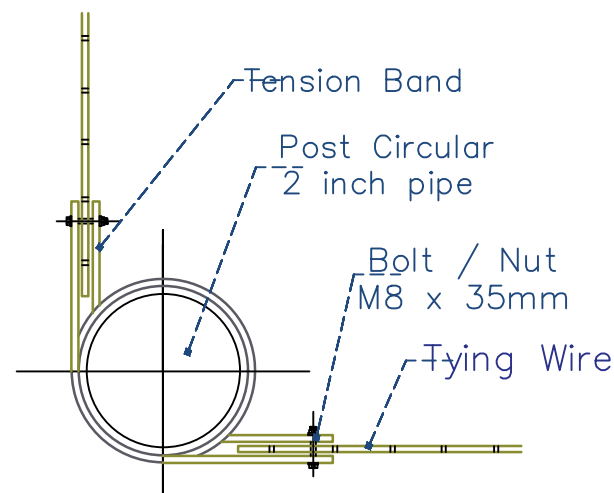
مسـتـوـى الارض GL.

مسـتـوـى الارض GL.

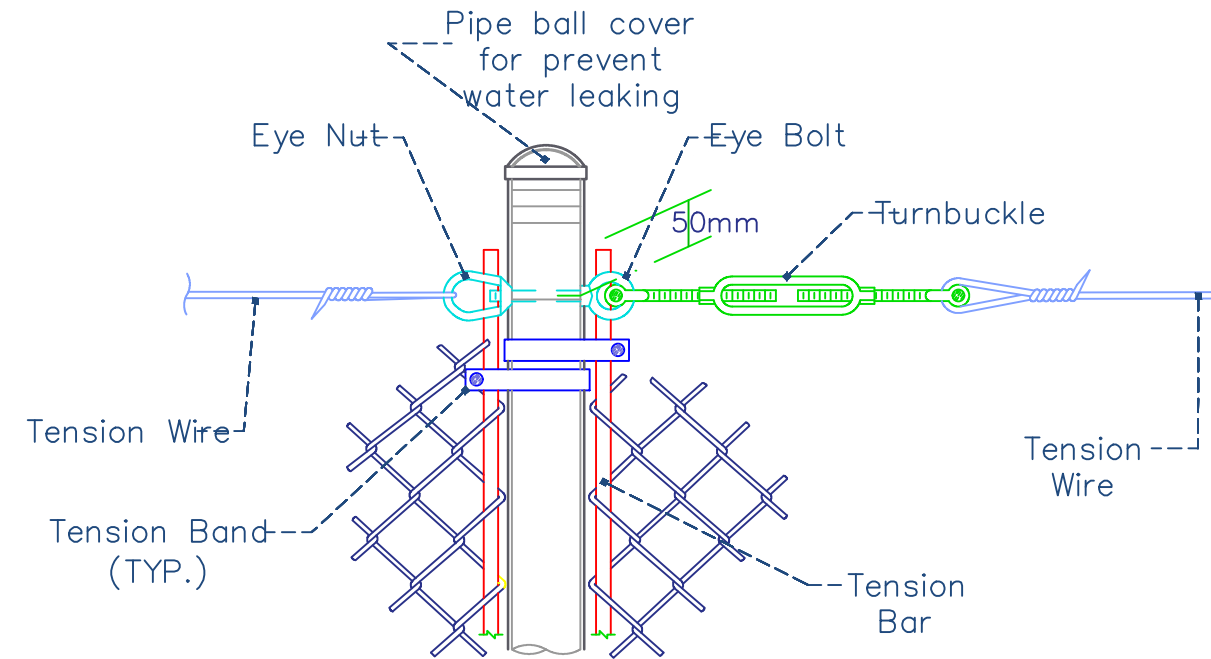
Prepared by:					
Funded by:					
Project Title:	REHABILITATIONS OF GAWALLA WATER PROJECT				
Project Location:	DARSAAD DISTRACT – ADFN GOV				
Drawing Title:	PROTECTION FENCE				
Project Name:	RAINS OF RESILIENCE 2025				
Designed and reviewed by:	SPRY - WASH Sector				
Approved by:	SPRY - WASH Sector				
Status:	Final Draft				
Project No:			Paper Size:	A3	
	Date		Scale	As Shown	
				North:	
					
				Drawing No:	
				A1-16	



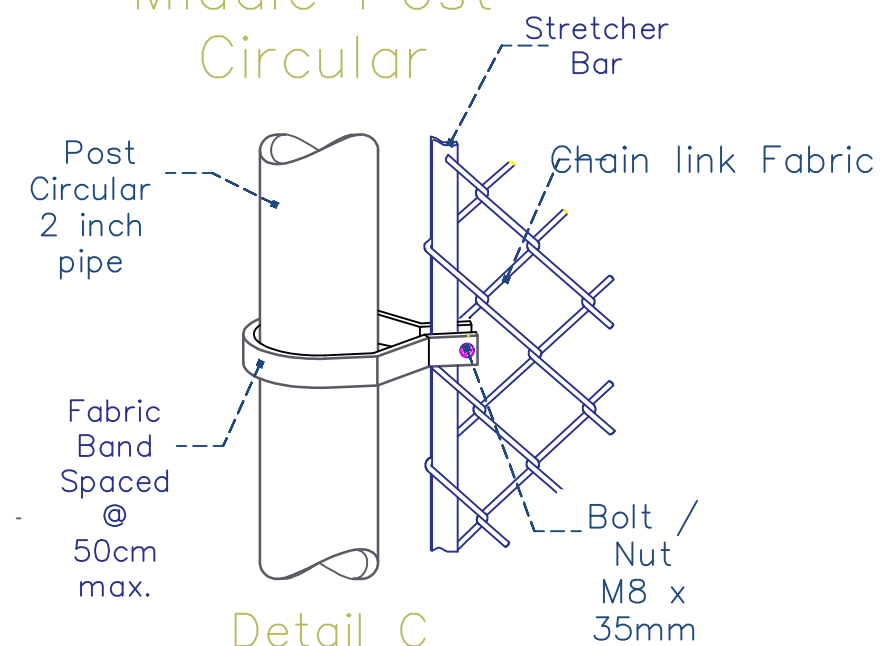
Detail B
Corner Post



Plan view
Corner Post pip tying



Detail A
Middle Post
Circular



Detail C
Stretcher Bar

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF GAWALLA
WATER PROJECT

Project Location:

DARSAAD DISTRICT –
ADEN GOV.

Drawing Title:

PROTECTION FENCE 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 15/06/2025

Paper Size:

A3

Scale

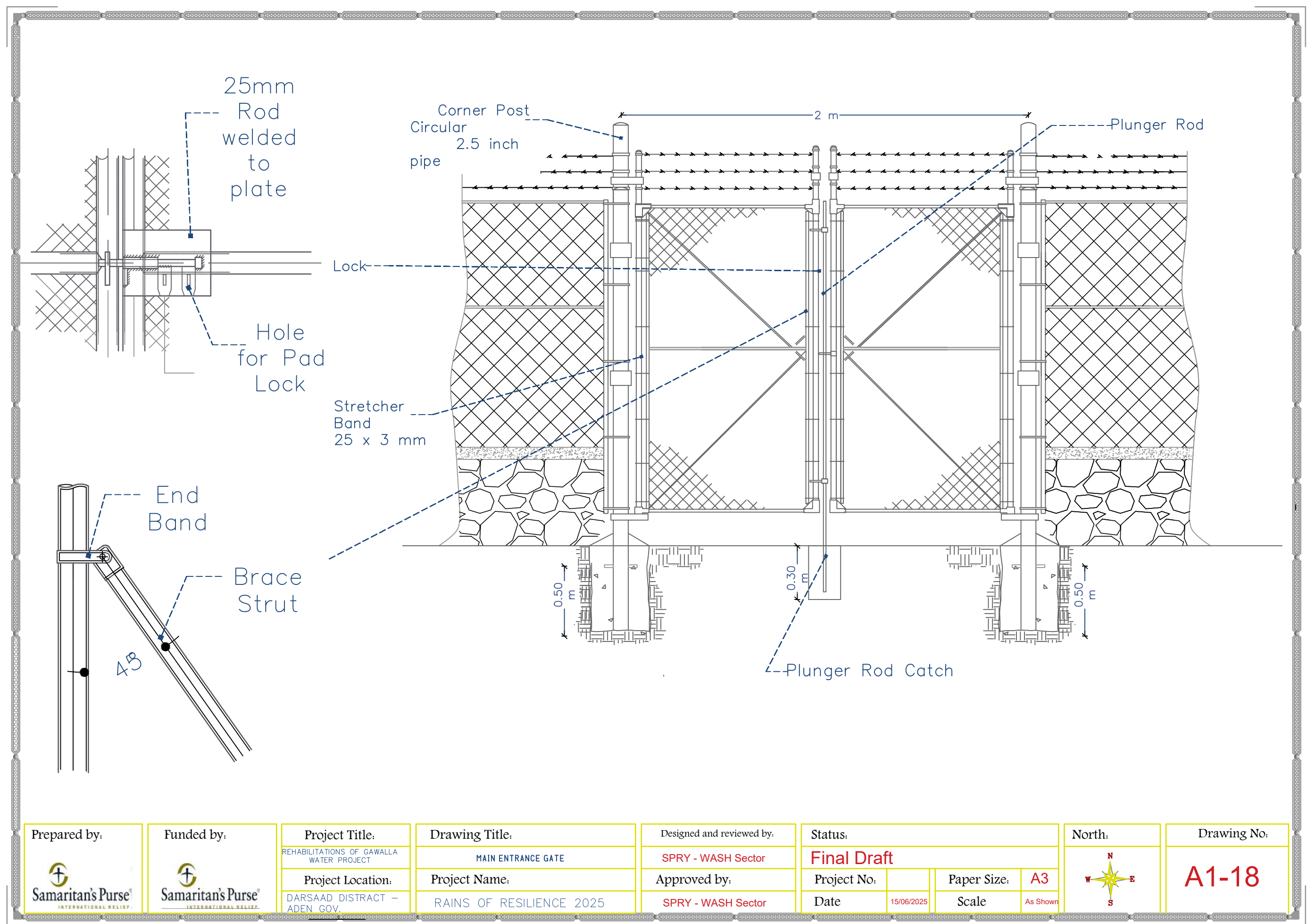
As Shown

North:

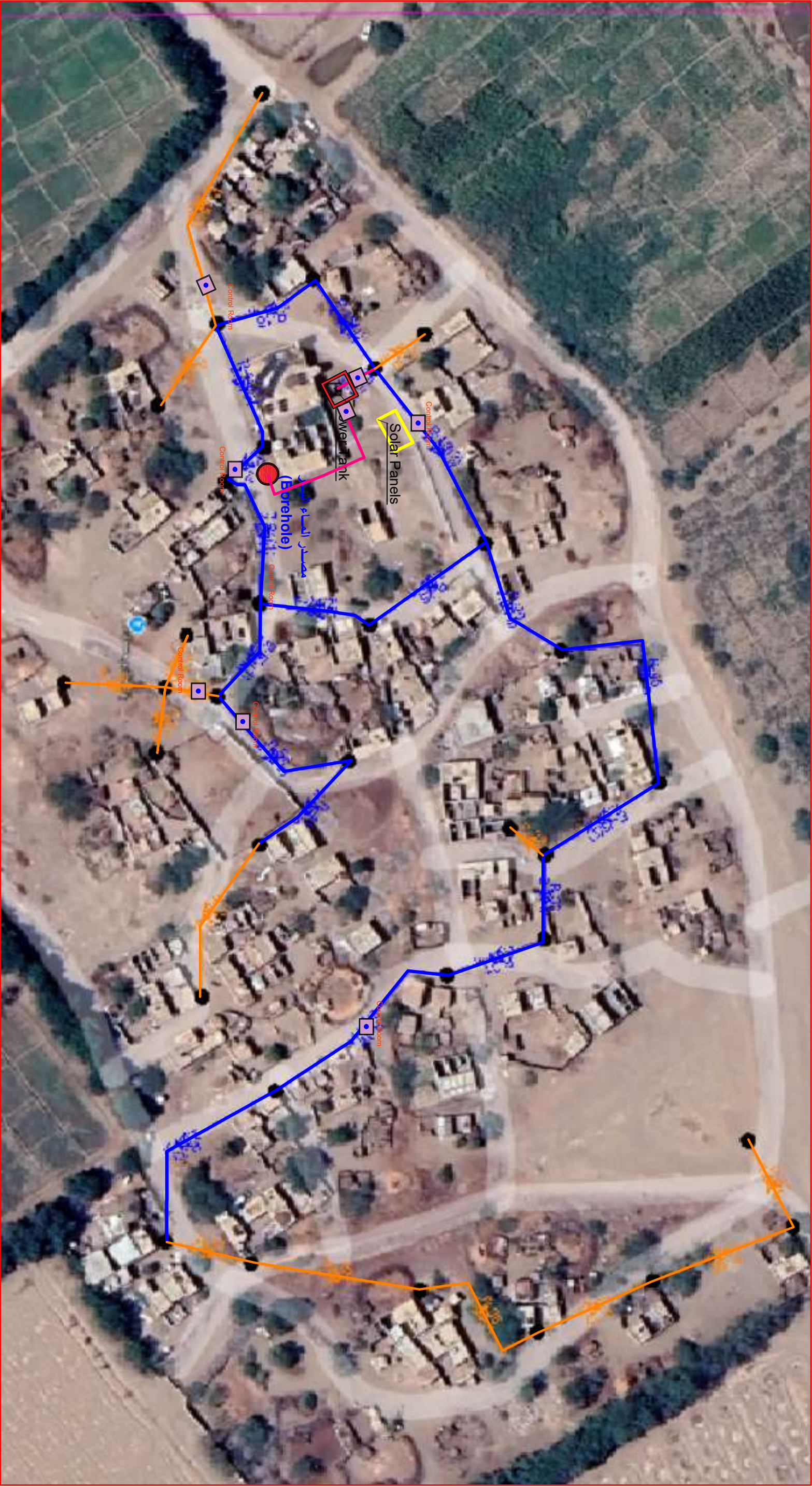


Drawing No.:

A1-17



Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF GAWALLA WATER PROJECT	MAIN ENTRANCE GATE	SPRY - WASH Sector	Final Draft		A1-18
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		DARSAAD DISTRICT – ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					15/06/2025	As Shown	

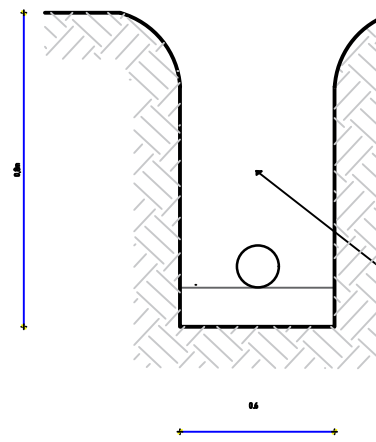


- 3 هفتش خط إرسالة جديد
- 2 هفتش خط إرسالة جديد
- 1.5 هفتش خط إرسالة جديد

WATER NETWORK PLAN with Map

Prepared by:		Funded by:	
 Samaritan's Purse® INTERNATIONAL RELIEF		 Samaritan's Purse® INTERNATIONAL RELIEF	
Project Title:		Drawing Title:	
REHABILITATIONS OF GAWALLA WATER PROJECT		WATER NETWORK PLAN	
Project Location:		Project Name:	
DARSAAD DISTRACT – ADEN GOV.		RAINS OF RESILIENCE 2025	
Designed and reviewed by:		Status:	
SPRY - WASH Sector		Final Draft	
Approved by:		Project No:	Paper Size:
SPRY - WASH Sector		Date	Scale
		15/06/2025	As Shown
North:		Drawing No:	
		A1-19	

Step 01



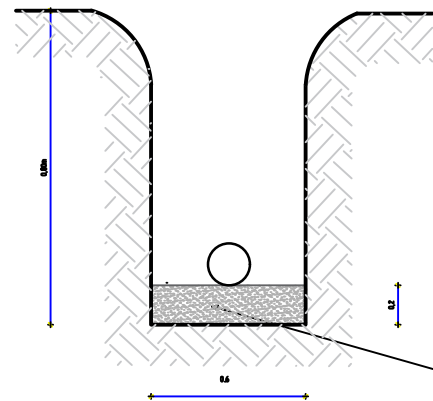
Drilling is carried out according to the specified dimensions, with a depth of no less than 1.2m and a width suitable for installing pipes of no less than 50cm.

يتم الحفر بحسب الأبعاد المحددة عمق لا يقل عن ١.٢ م والعرض المناسب لتركيب المواسير لا يقل عن 60 سم

Excavation details

تفاصيل الحفر

Step 02



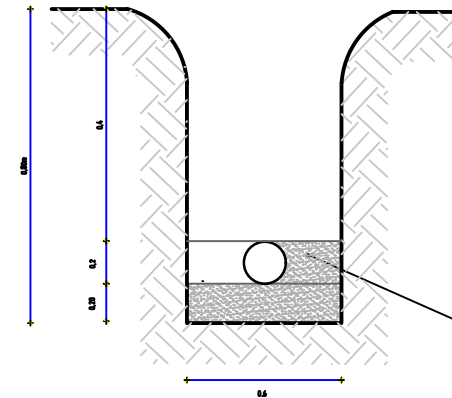
Sand or soft soil is placed under the pipe with a thickness of no less than 15 cm, up to the middle of the pipe, and compact it with your foot.

يتم وضع الرمل أو التراب الناعم تحت الأنبوب بسُمك لا تقل عن ١٥ سم حتي منتصف الأنبوب والدك عليه بالقدم.

Details for start Installation

تفاصيل بداية التركيب

Step 03



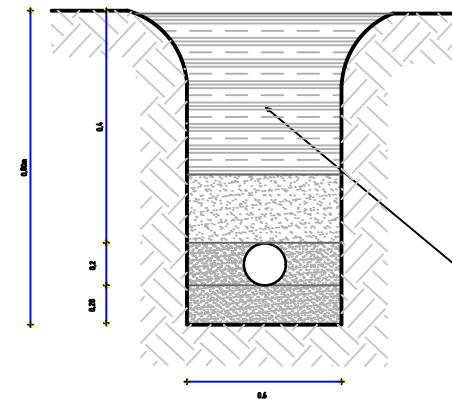
The pipes are placed after connecting them, testing the pumping into them, and checking that no water is leaking from them. Then backfilling with sand or soft soil is completed around and over the pipe with a thickness of no less than 20 cm.

يتم وضع الأنبوب بعد توصيلها وتجربة الضخ فيها وفحص عدم تسريب مياه منها ومن ثم يتم الكمال الردم بالرمل أو التربة الناعمة حول و فوق الأنبوب بسُمك لا تقل عن 20 سم

Details Backfilling Around the Pipe

تفاصيل الردم حول الأنبوب

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 الأنبوب بـ 30 سم مع الدك وبعدها يتم الردم من ناتج الحفر على طبقات مع الدك كل 25 سم لمنع هبوط الردم في مستقبلي

Details of completing the backfill with tamping

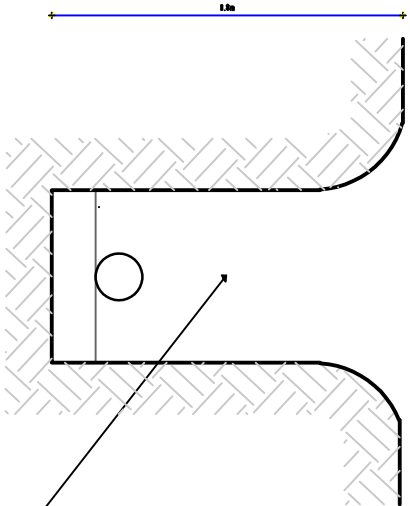
تفاصيل الكمال الردم مع الدك

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

تفاصيل الحفر والردم وتركيب شبكة التوزيع وخط الضخ

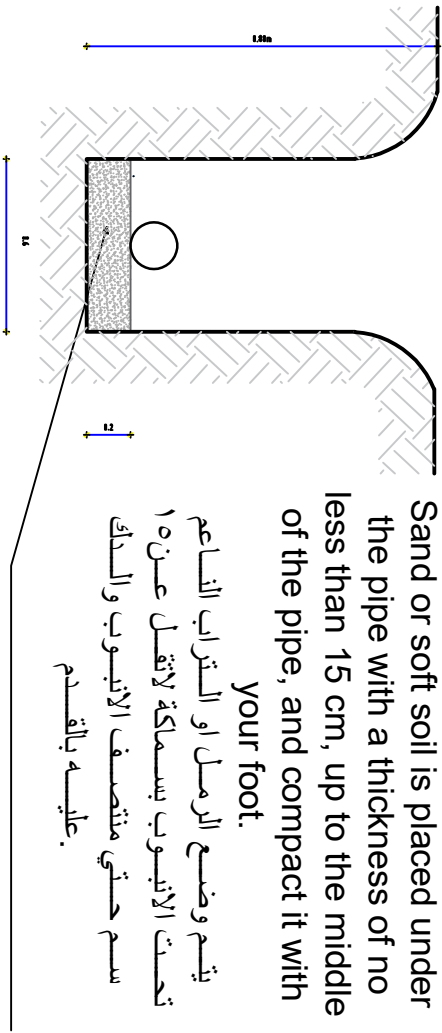
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
		REHABILITATIONS OF GAWALLA WATER PROJECT	EXCAVATION, BACKFILL, WATER NETWORK DETAILS	SPRY - WASH Sector	Final Draft		A1-21
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		DARSAAD DISTRICT – ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					15/06/2025	As Shown	

Step 01



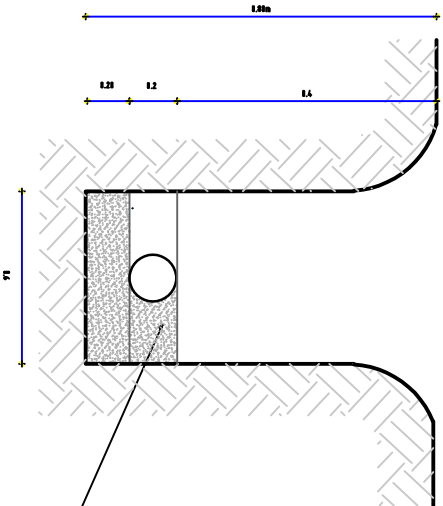
Excavation details
تفاصيل الحفر

Step 02



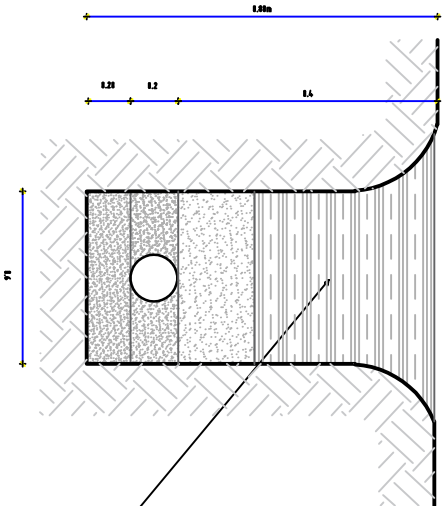
Details for start Installation
تفاصيل بداية التركيب

Step 03



Details Backfilling Around the Pipe
تفاصيل الردم حول الأنبوب

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 GAWALLA
WATER PROJECT

Drawing Title:

EXCAVATION, BACKFILL, WATER NETWORK DETAILS

Status:

Final Draft

North:



Drawing No:

A1-21

Designed and reviewed by:

SPRY - WASH Sector

Project No:

15/06/2025

Paper Size:

A3

Scale

As Shown

Approved by:

SPRY - WASH Sector

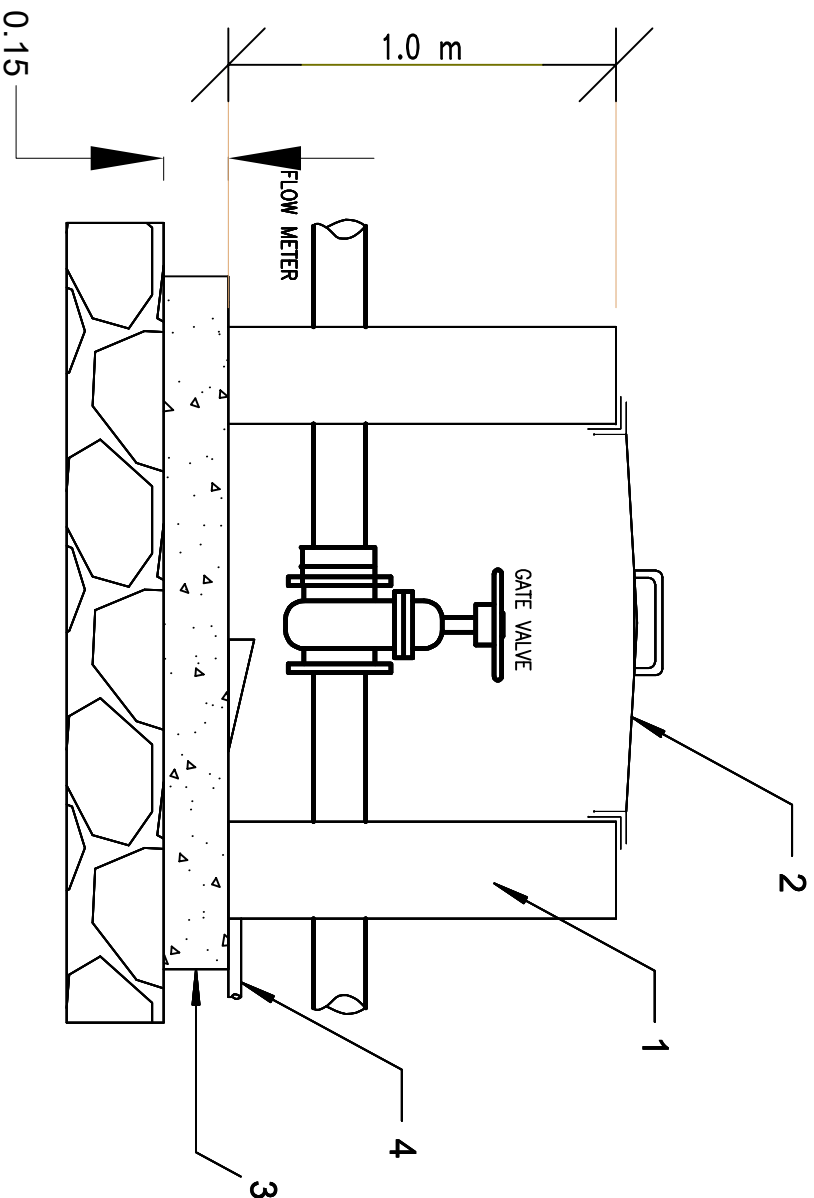
Date

Scale

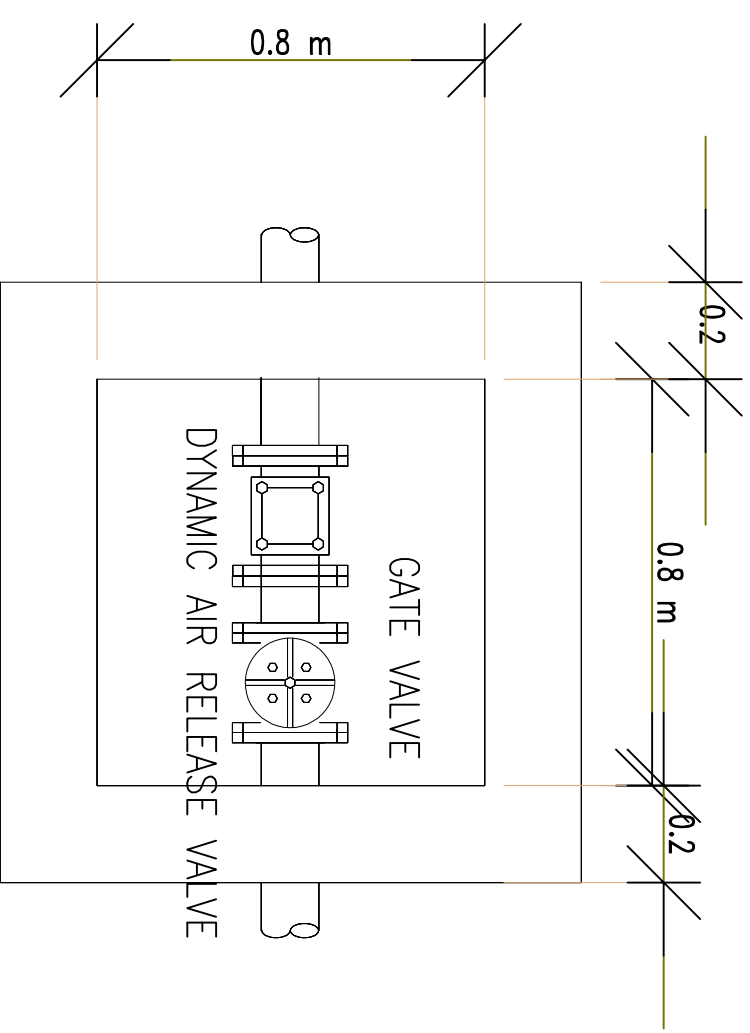
Notes:

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.

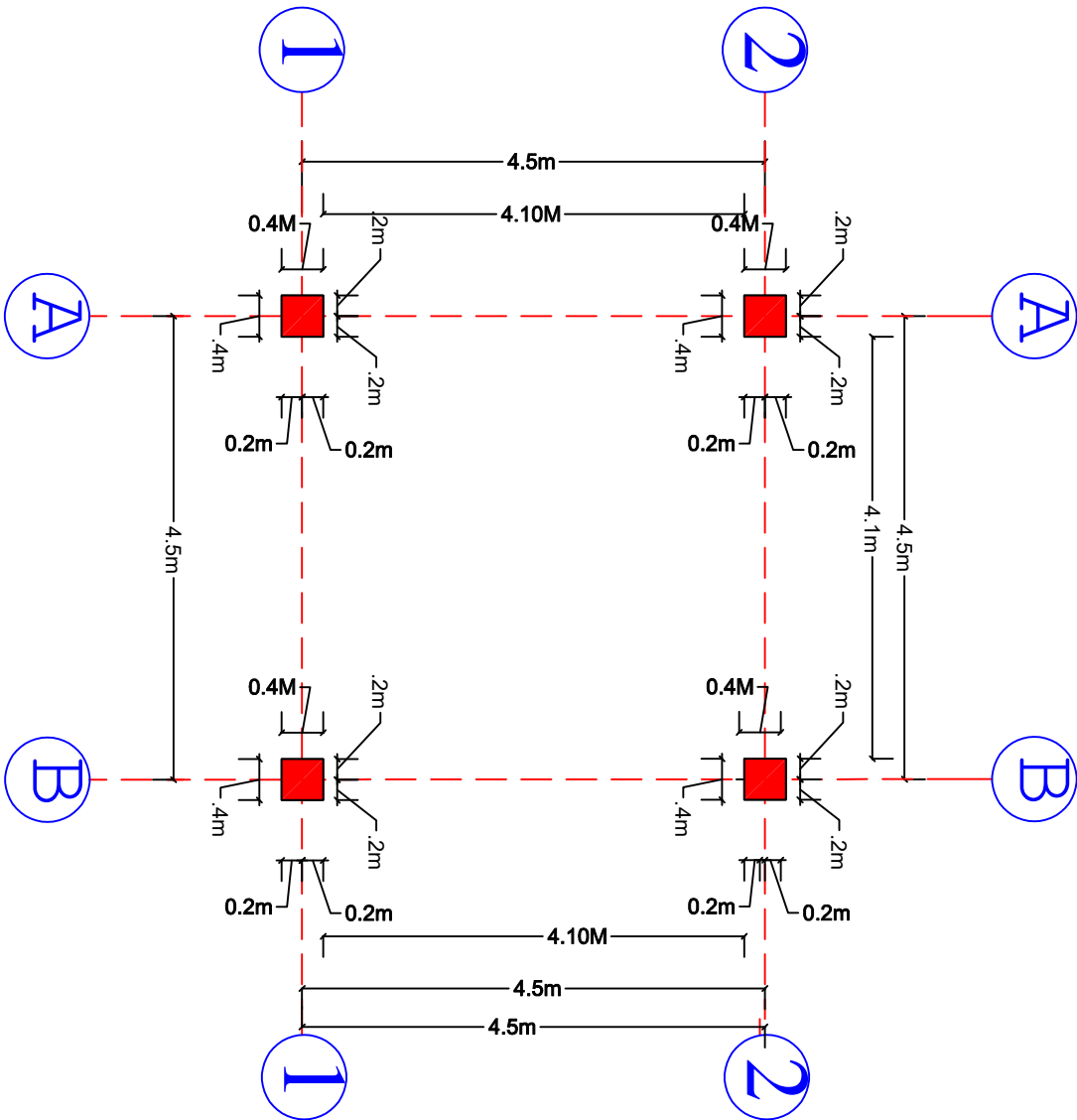


Plan View Scale 1:50

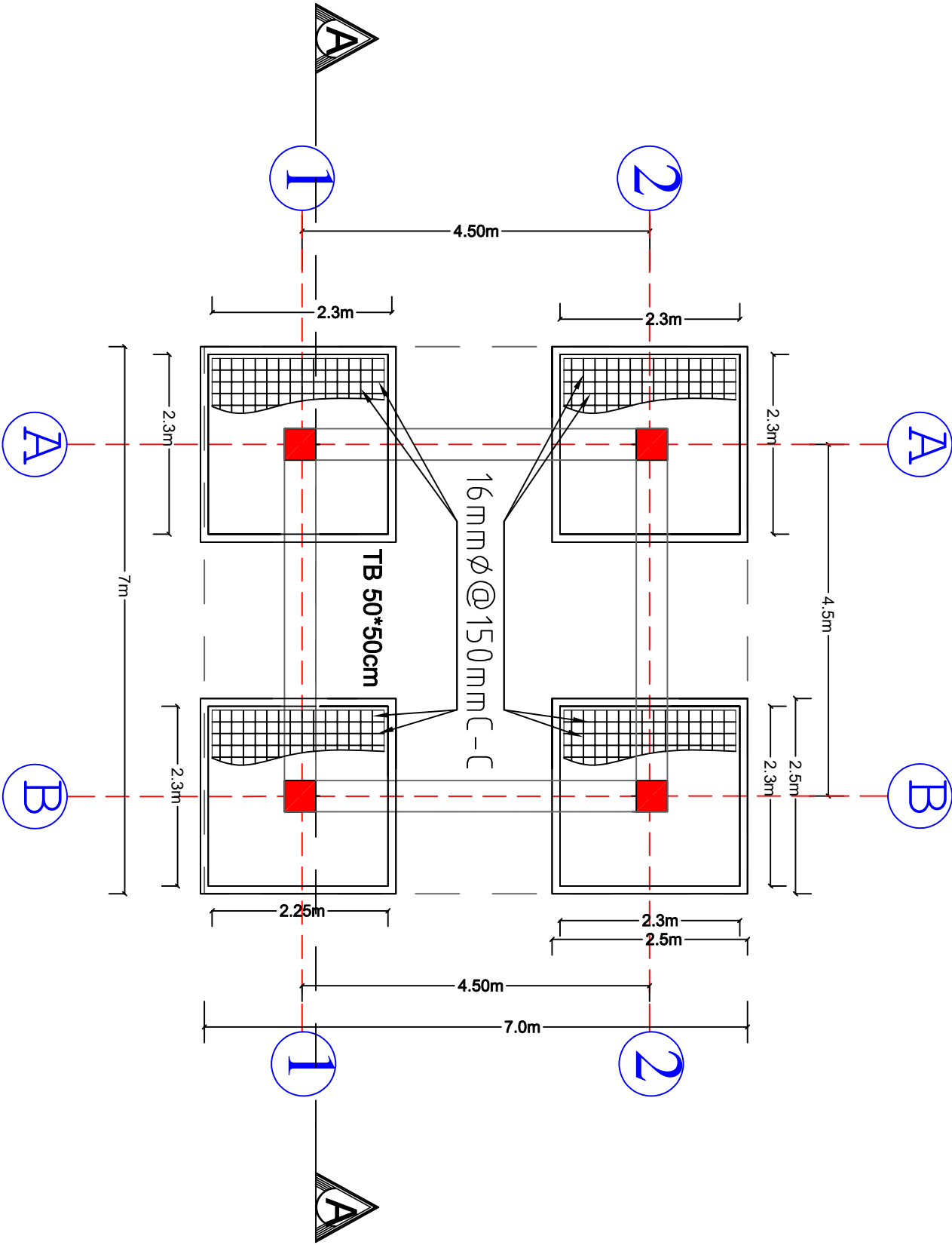


- 1 -Buildings of solid cement blocks, size(20 * 20 * 40)cm.
- 2 -Cover made of granulated and reinforced iron with all mounting accessories from Schellmann tires 1.5 Hinch, 2 mm thick .
- 3 -Ordinary concrete with a mixing ratio of (1:3:5 cement: sand: curry) with a thickness of 15 cm .
- 4 -Water drain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

Prepared by:		Samaritan's Purse® INTERNATIONAL RELIEF	Funded by:		Samaritan's Purse® INTERNATIONAL RELIEF	Project Title:	REHABILITATIONS OF GAWALLA WATER PROJECT	Drawing Title:	VALVE ROOM DETAILS	Designed and reviewed by:	SPRY - WASH Sector	Status:	Final Draft	Project No:		Paper Size:	A3	North:		Drawing No:
						Project Location:	DARSAAD DISTRACT – ADEN GOV.	Project Name:	RAINS OF RESILIENCE 2025	Approved by:	SPRY - WASH Sector			Date	15/06/2025	Scale	As Shown			

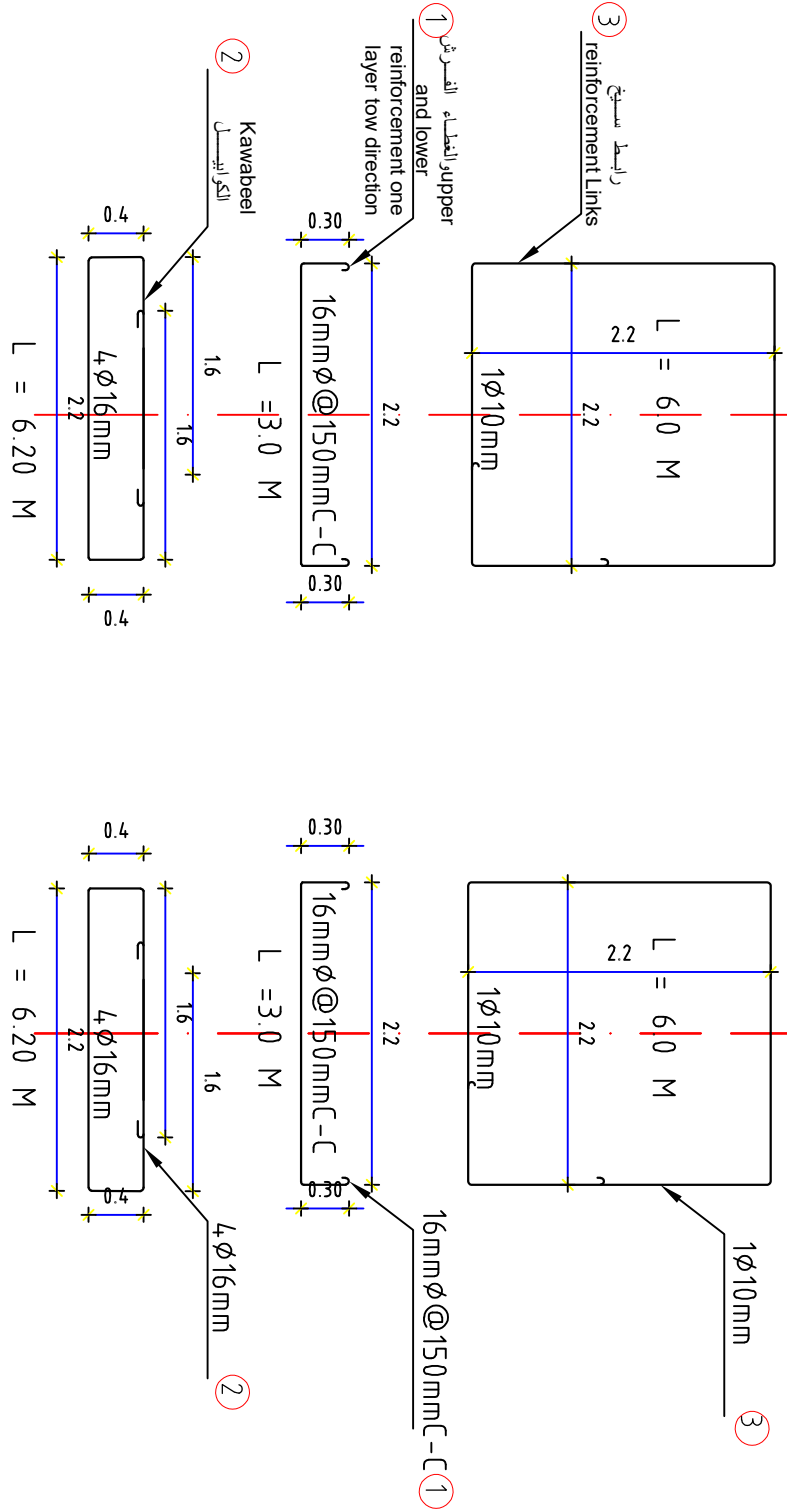
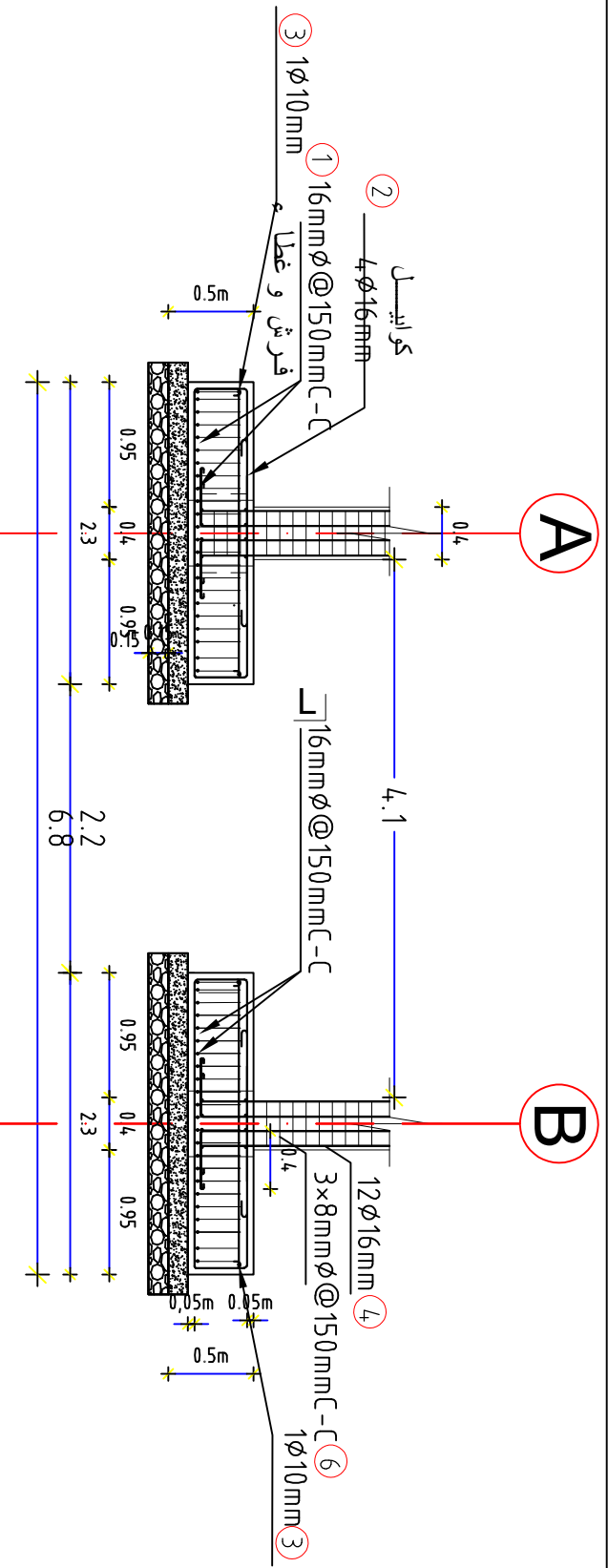


Columns & Axes details
تفاصيل الأعمدة والمحاور



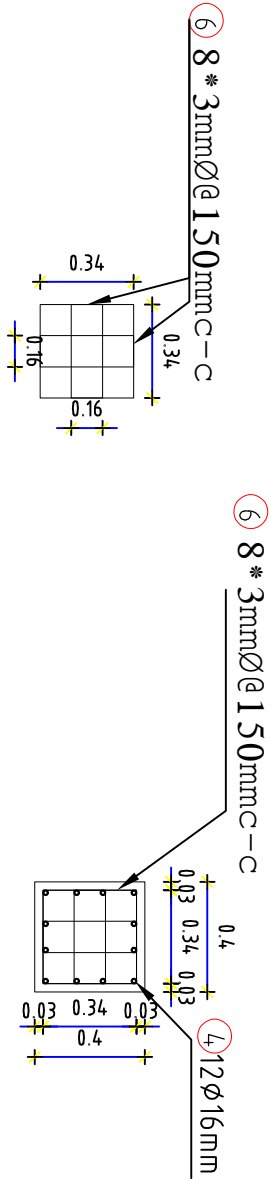
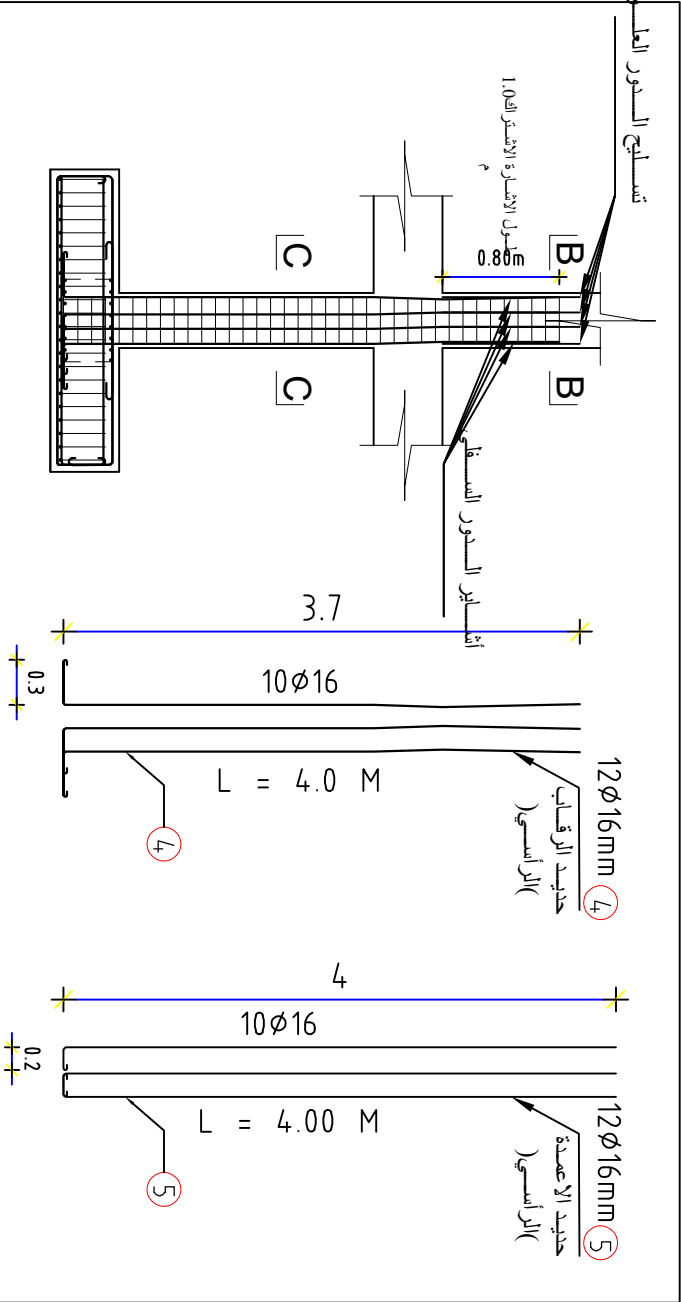
Detailing reinforcement of
Footing تسليح القواعد

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 GAWALLA WATER PROJECT	TOWER TANK COLUMN AND FOOTING DETAILS	SPRY - WASH Sector	Final Draft		A1-24
		Project Location: DARSAAD DISTRACT – ADEN GOV.	Project Name: RAINS OF RESILIENCE 2025	Approved by: SPRY - WASH Sector	Project No: 15/06/2025	Paper Size: A3 As Shown	

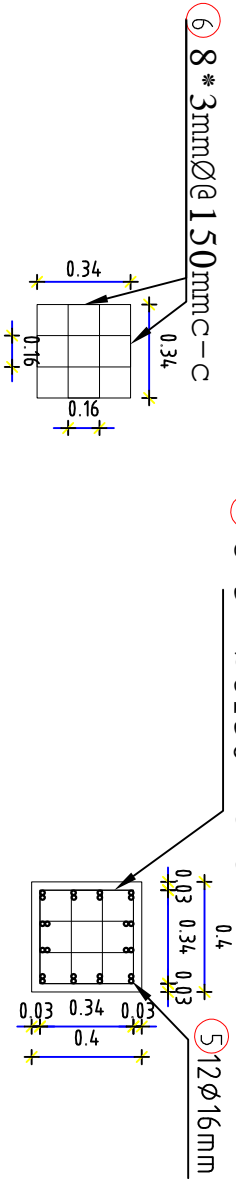


Details for reinforcement footings and tensionless beams Section A-A 1:50

مقطع القواعد والشدادات A-A 1:50



Section C-C Details Column 1:25



Section B-B Details Column 1:25

Details reinforcement to necks and columns 1:50

مقطع تقصيلي يوضح حديد الرقاب وحديد الاعدسة 1:50

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF GAWALLA WATER PROJECT

Drawing Title:

TOWER TANK COLUMN AND FOOTING DETAILS

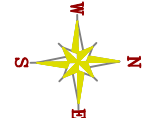
Designed and reviewed by:

SPRY - WASH Sector

Status:

Final Draft

North:



Drawing No:

A1-25

Project Location:

DARSAAD DISTRACT – ADEN GOV.

Project Name:

RAINS OF RESILIENCE 2025

Approved by:

SPRY - WASH Sector

Project No:

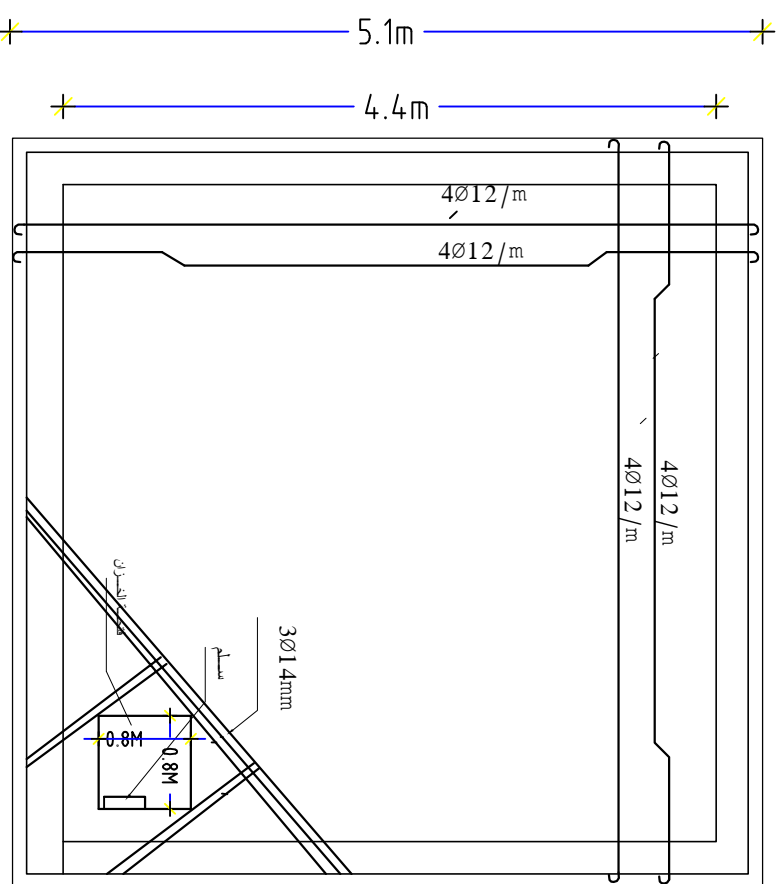
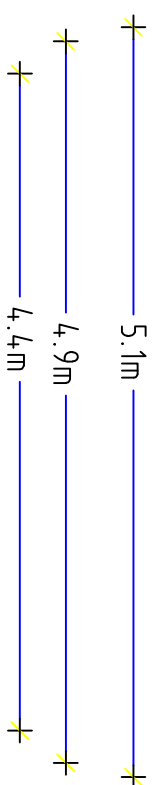
15/06/2025

Paper Size:

A3

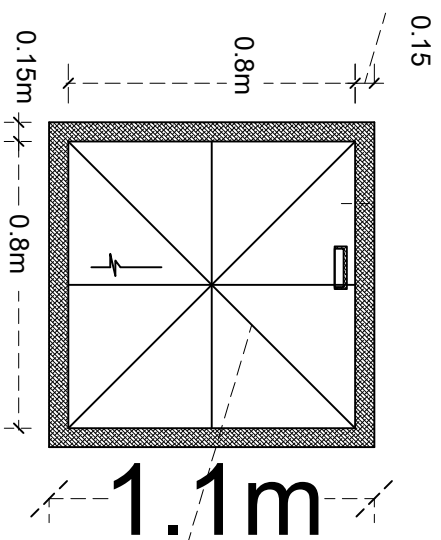
Scale

As Shown



Reinforcement of roof

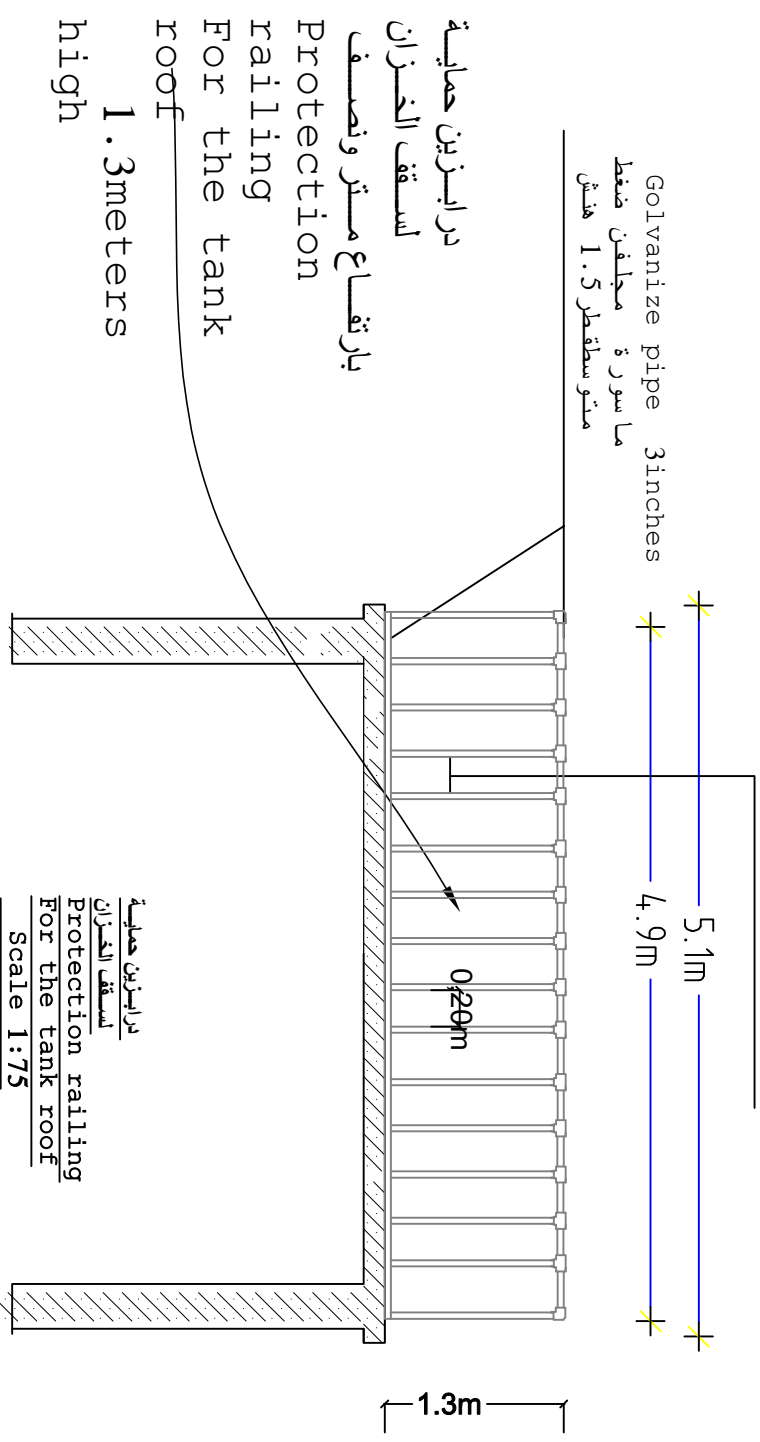
تفاحیل تسلیم خرید سقف الخزان tank



Angle 1.5inches 2, mm
thick, plate 2mm thick
اطار شلمان 1.5 هنش سماكة 2
ملم وبتره جافى محبيب
ابو 2 ملم

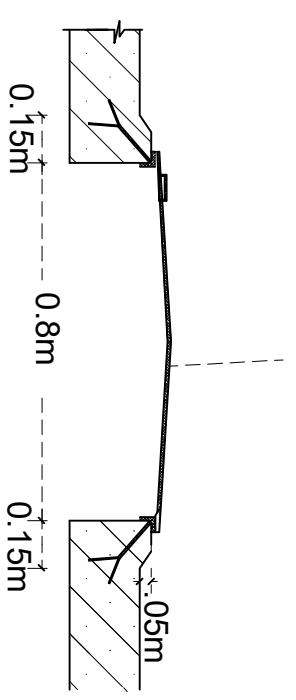
تفاصيل غطاء سقف الخزان

Details Tank roof cover



دوابزين حمايه
لسقف الخزان
بارفعا ٤ متر ونصف
Protection
railing
For the tank
roof
1.3meters
high

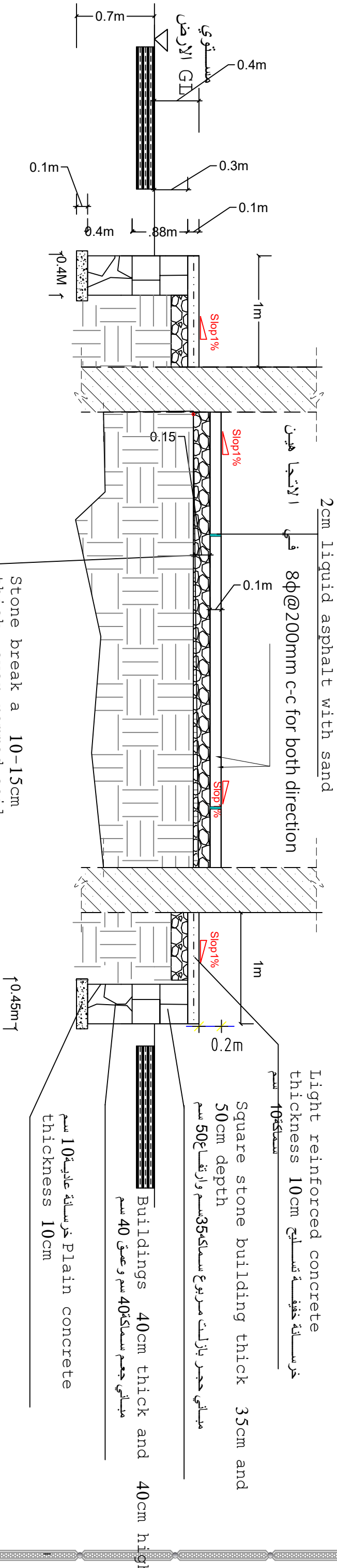
Angle 1.5inches 2, mm thick,
plate 2mm thick
اطار شلمان 1.5 هنش سماكة 2 ملم
وبتره جافى مجبب ابو 2 ملم



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 GAWALLA WATER PROJECT		TOWER TANK ROOF DETAILS		SPRY - WASH Sector		Final Draft				A1-28			
				Project Location:		Project Name:		Approved by:		Project No.						Paper Size:	
				DARSAAD DISTRACT – ADEN GOV.		RAINS OF RESILIENCE 2025		SPRY - WASH Sector		Date						Scale	

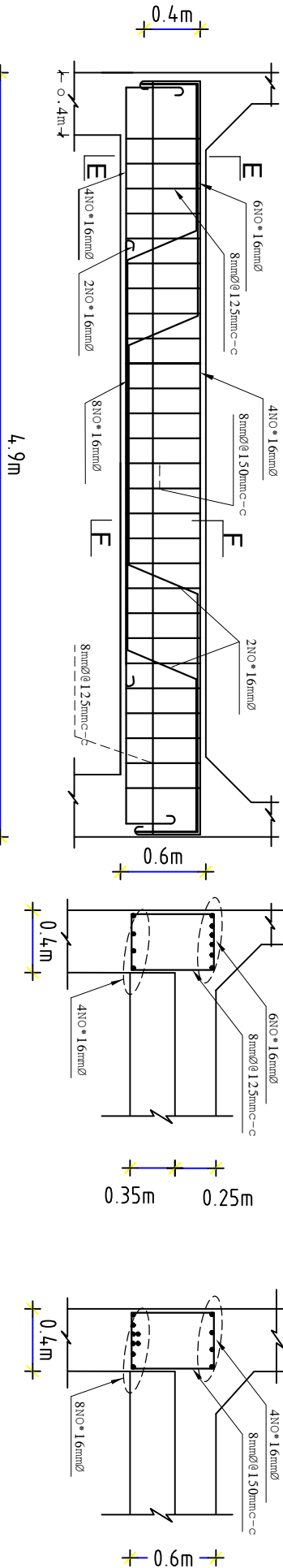
6,9

4.10m

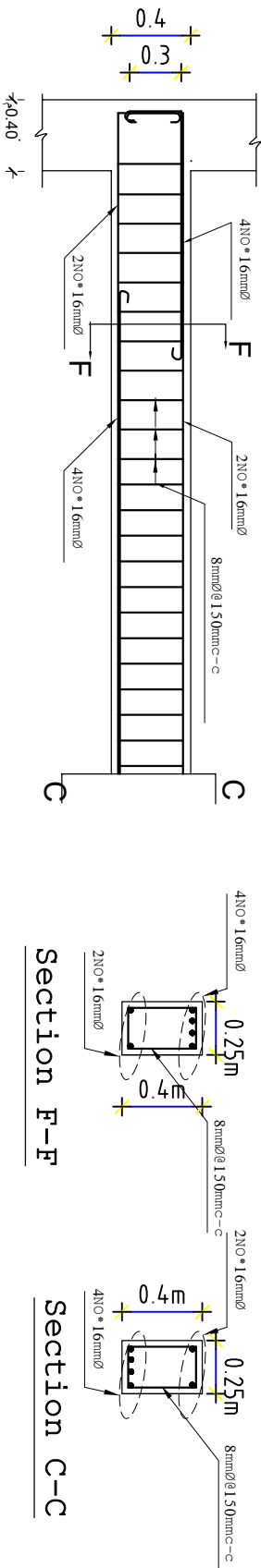


Details of the paving and under tank Scale 1:50

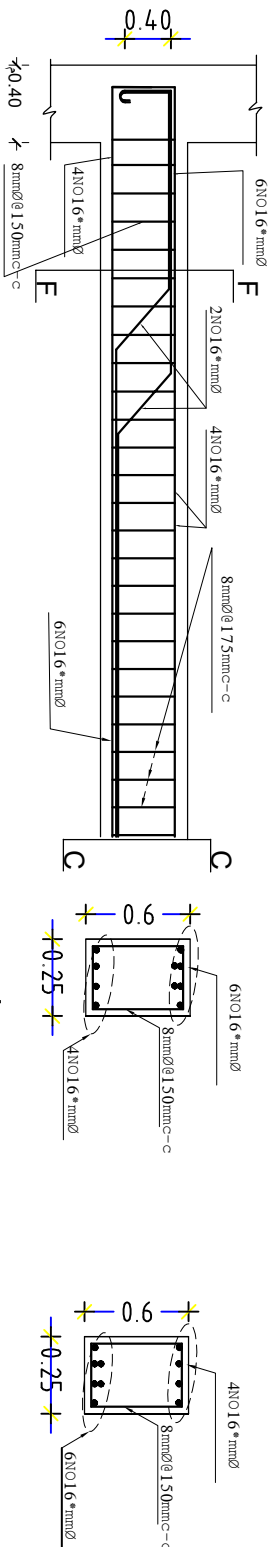
Prepared by:	Funded by:	Project Title:	Drawing Title:	Designed and reviewed by:	Status:	North:	Drawing No:
Samaritan's Purse INTERNATIONAL RELIEF	Samaritan's Purse INTERNATIONAL RELIEF	REHABILITATIONS OF GAWALLA WATER PROJECT	TOWER TANK PAVING DETAILS	SPRY - WASH Sector	Final Draft		
Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	Date	Scale	A3
DARSAAD DISTRACT – ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	15/06/2025	As Shown			A1-29



Reinforcement BEAM-A-(40cmx60cm)



Reinforcement BEAM-B-(25cmx40cm)

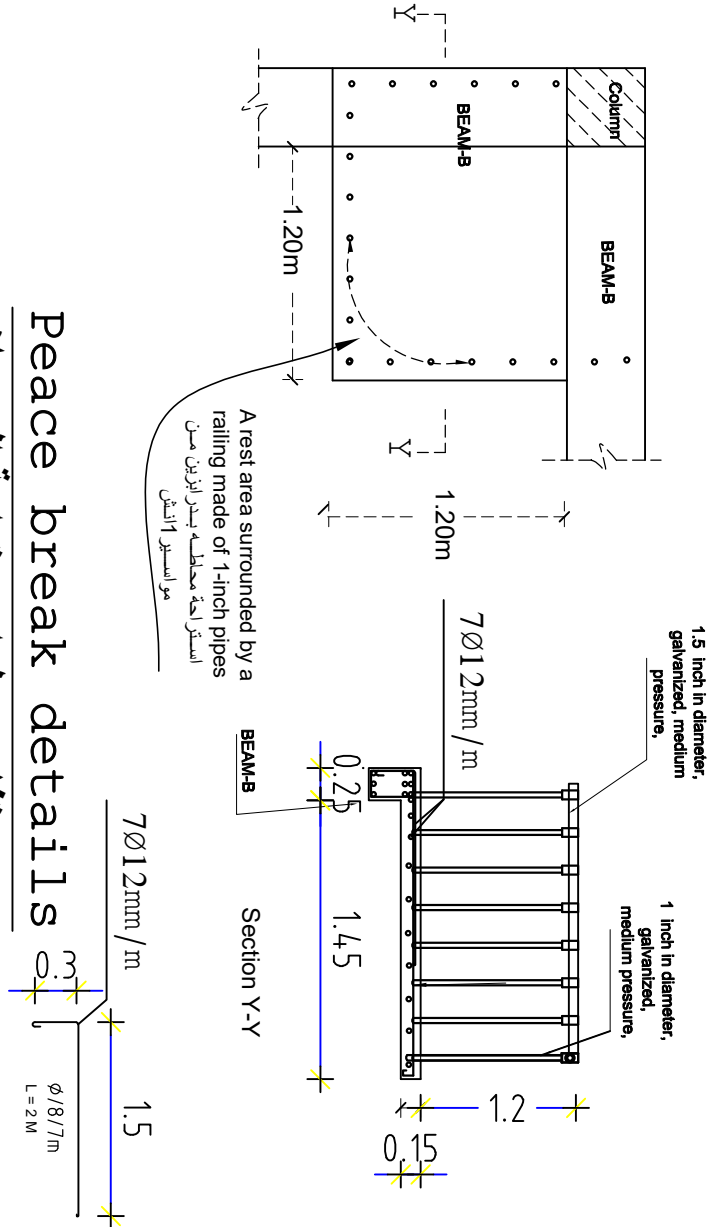


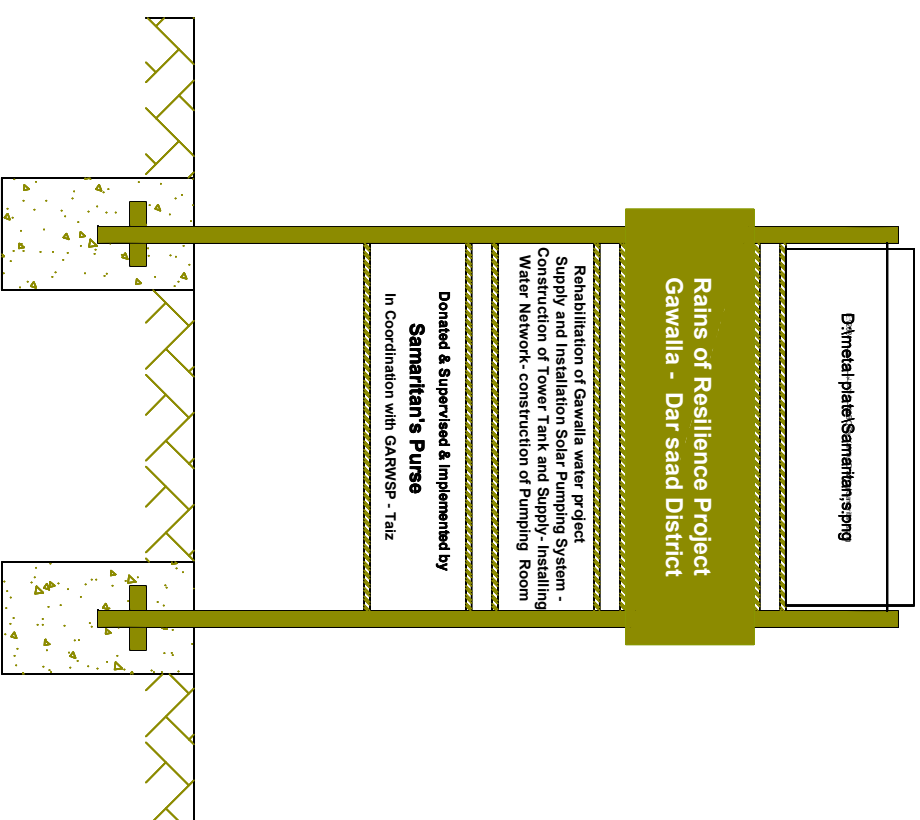
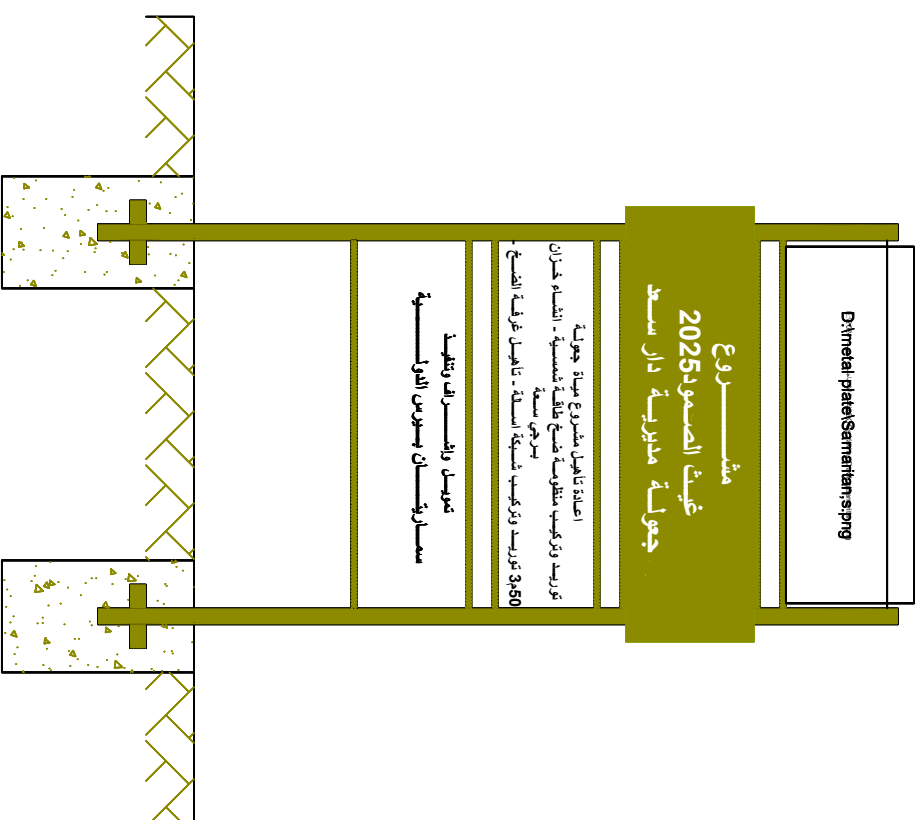
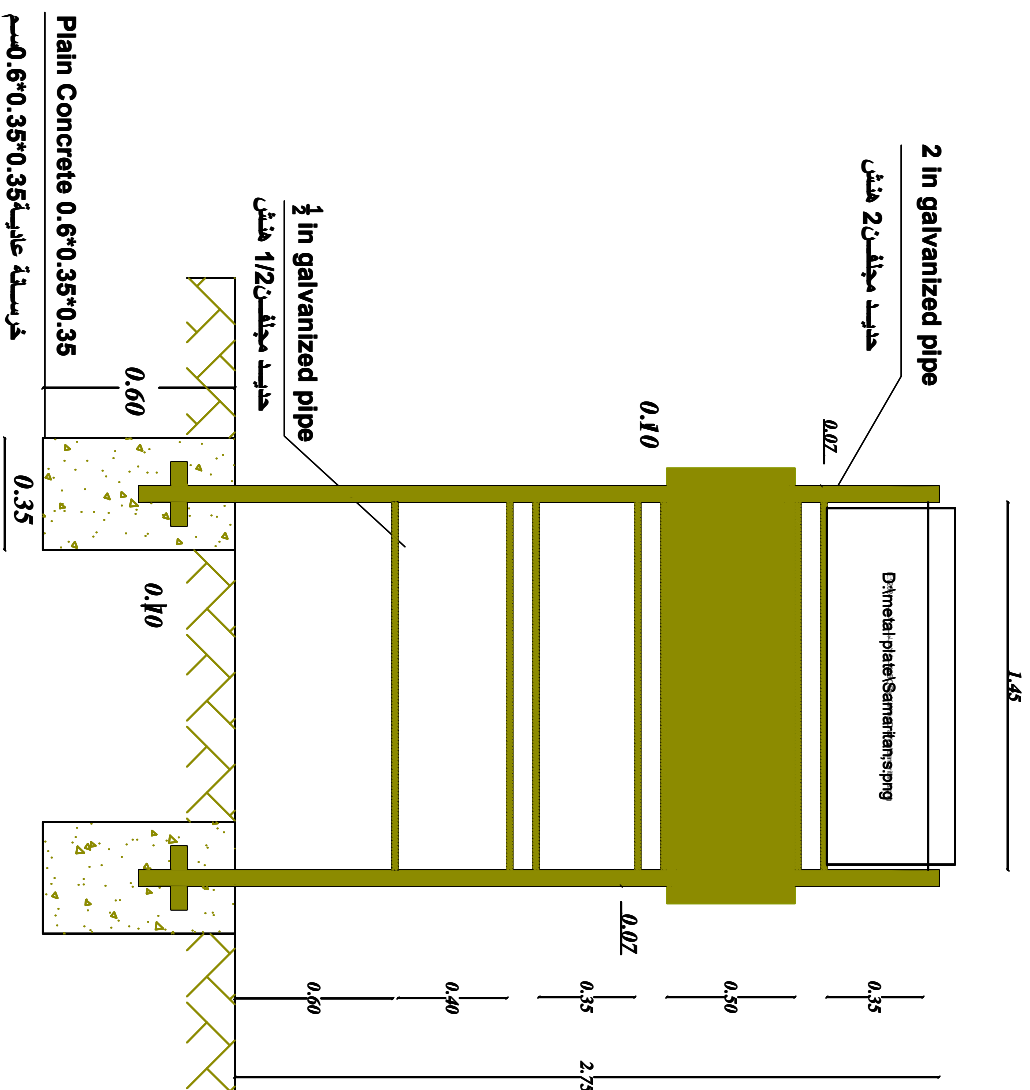
Reinforcement BEAM-A0-(25cmx60cm)

REINFORCEMENT BEAMS A&B&AO DETAILS

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 WATER PROJECT	REINFORCEMENT BEAMS A&B&AO DETAILS	SPRY - WASH Sector	Final Draft		
		Project Location:	Project Name:	Approved by:	Project No:	Paper Size:	
		DARSAAD DISTRACT - ADEN GOV.	RAINS OF RESILIENCE 2025	SPRY - WASH Sector	Date	Scale	
					15/06/2025	As Shown	
							A1-30

Peace break details تفصيل استراحة السلام





Dimensions Details

تفاح میل الہی

Plate Front side Elevation

وإبادة الوحدة الأحادية

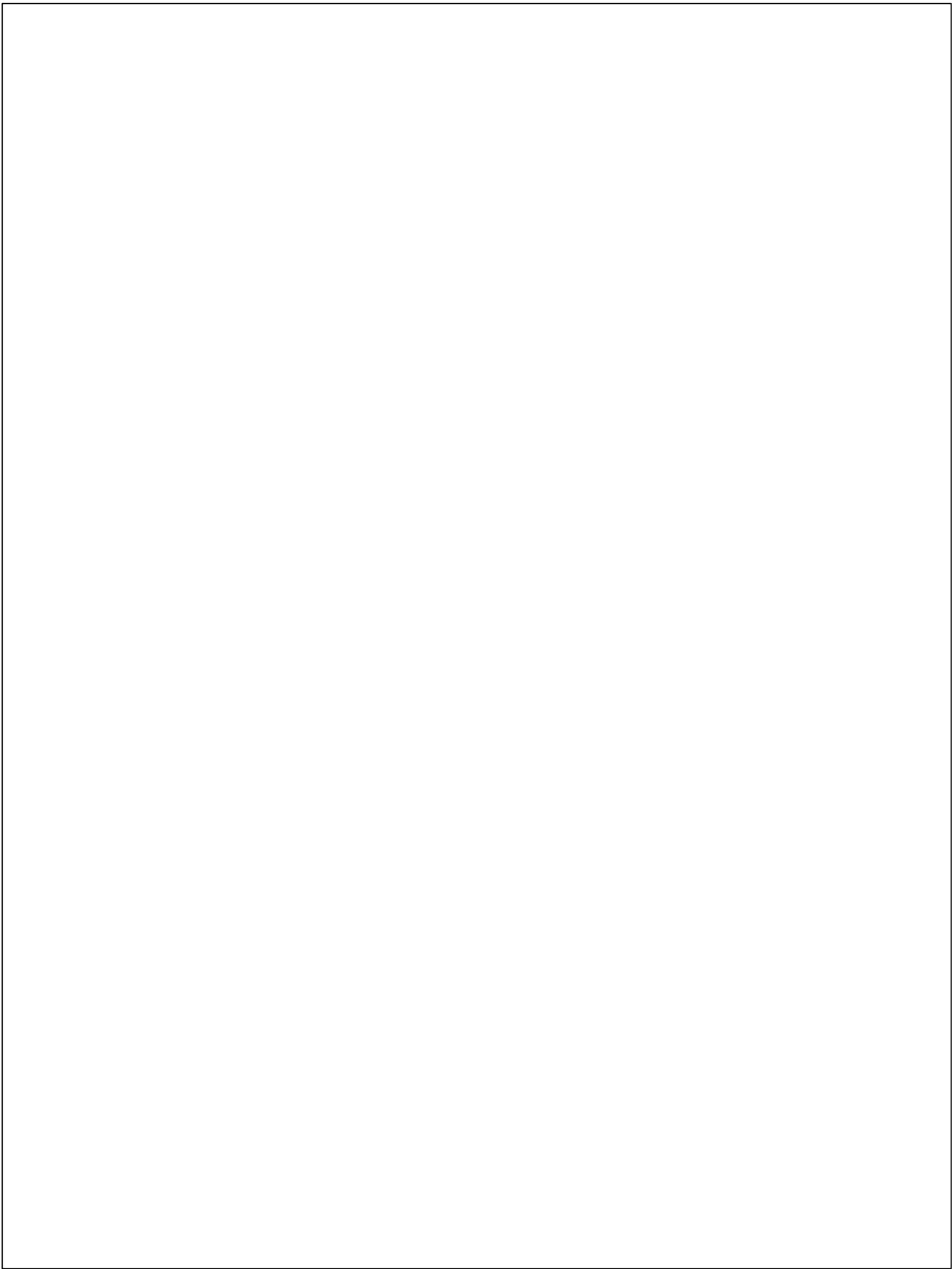
Backside Elevation

واجبة اللورد الخليفة

Prepared by:		Funded by:	
			
Project Title:		Drawing Title:	
REHABILITATIONS OF GAWALLA WATER PROJECT		METAL SIGN FOR PROJECT COMPLETION	
Project Location:		Project Name:	
DARSAAD DISTRACT – ADENGOV.		RAINS OF RESILIENCE 2025	
Designed and reviewed by:		Status:	
SPRY - WASH Sector		Final Draft	
Approved by:		Project No:	
SPRY - WASH Sector		Date	
		Paper Size:	
		A3	
		Scale	
		As Shown	
North:		Drawing No:	
		A1-31	

1.0 m

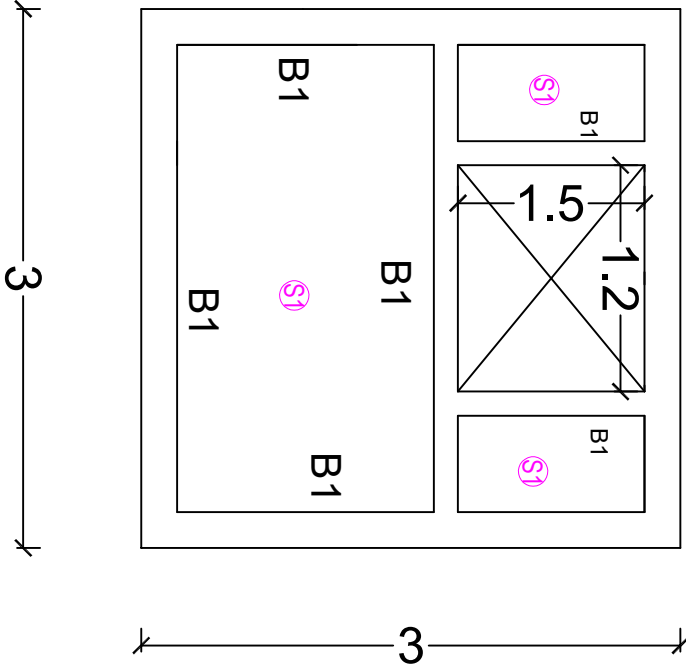
0.6 m



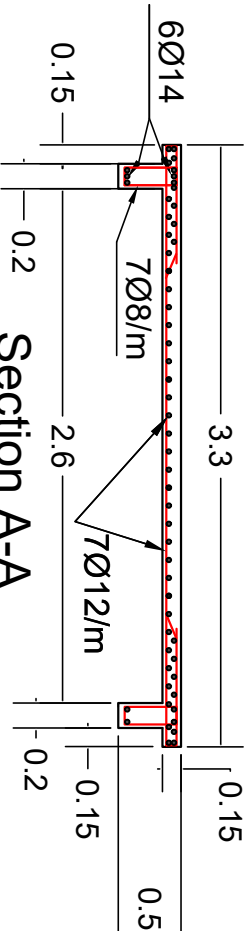
DETAILS MARBLE PAINTING

تفاصيل اللوحة الرخامية

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 GAWALLA WATER PROJECT		PAINTED SIGN FOR PROJECT COMPLETION		SPRVY - WASH Sector		Final Draft			A1-32		
		Project Location:		Project Name:		Approved by:		Project No:				Paper Size:	
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								15/06/2025		As Shown			



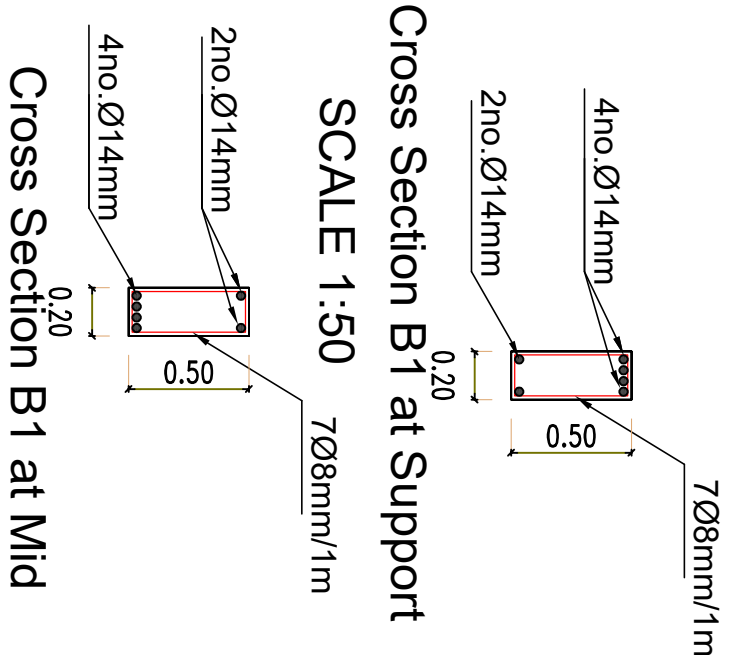
Plan Beam&Slab for Roof



SCALE 1:100

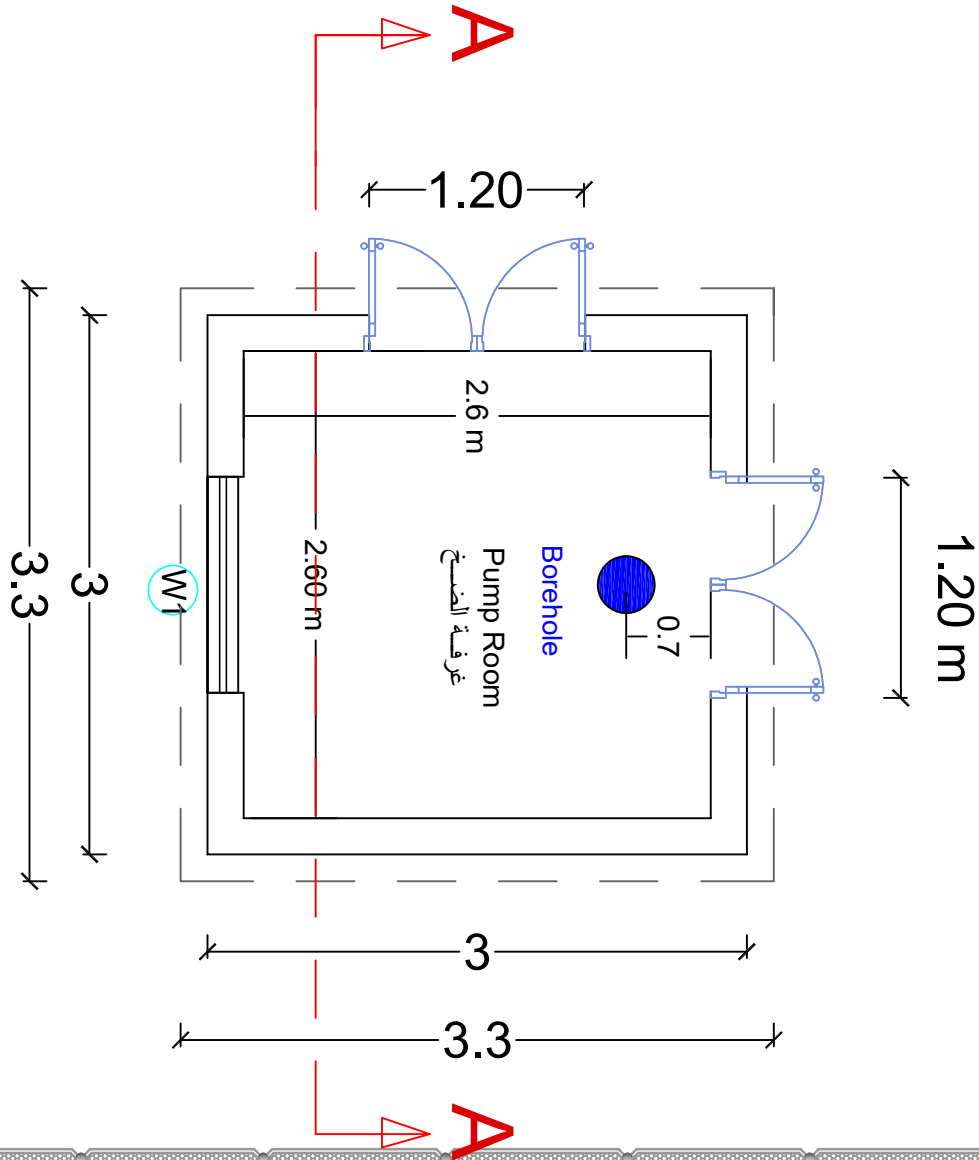
Slab reinforcement table for Roof

Reinforcement		سماكة البلاطة سم Thickness Slab cm	NO.
Upper	Lower	7Ø12/m	15
7Ø12/m	7Ø12/m		



Cross Section B1 at Support SCALE 1:50

Cross Section B1 at Mid



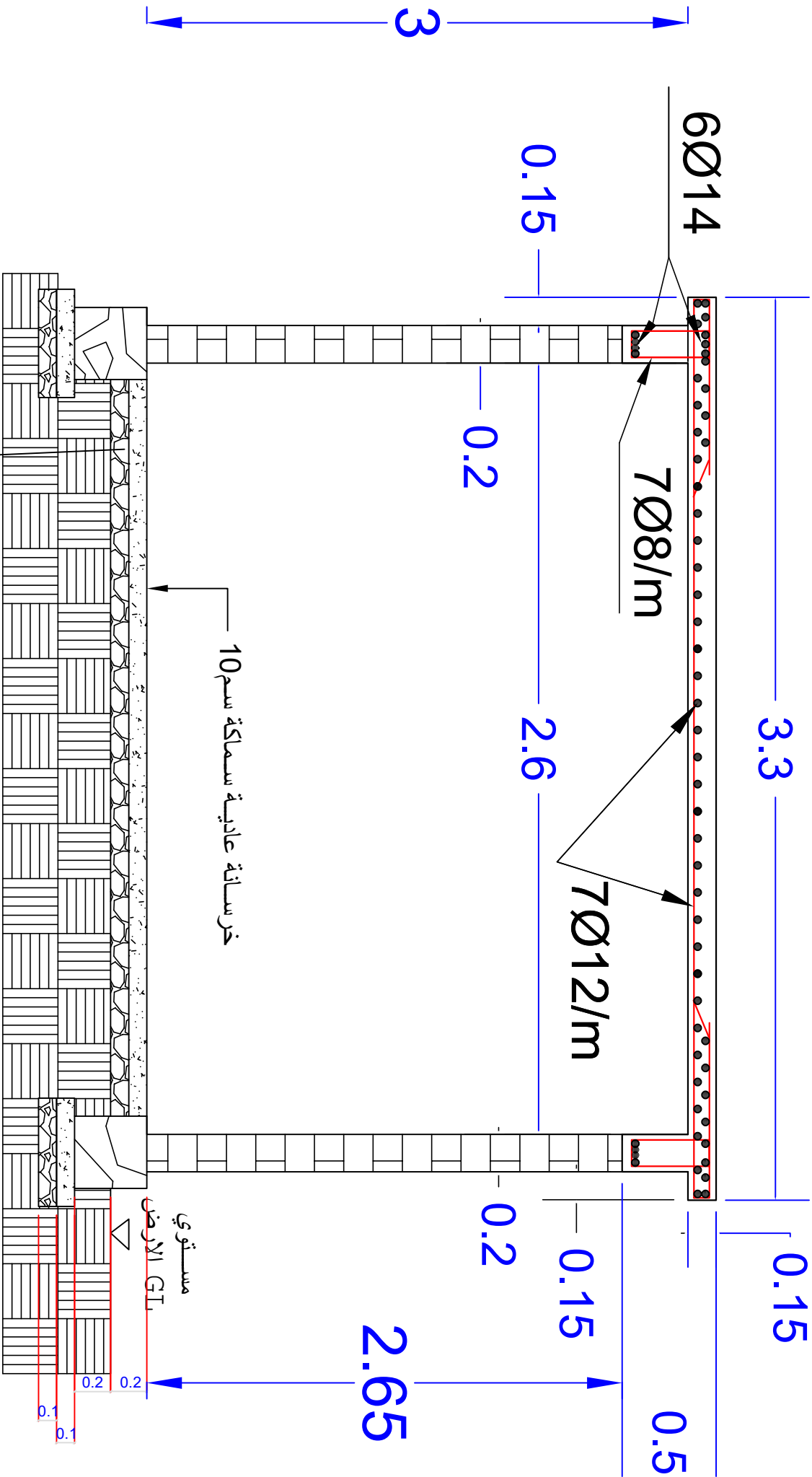
Plan SCALE 1:100

Beam reinforcement table for Roof

links		upper reinforcement	lower reinforcement		Section		NO.
in middle	in support	continuous	addation	continuous	width cm	depth cm	
6 Ø 8 / m	7 Ø 8 / m	2 Ø 14	2 Ø 14	2Ø 14	20	50	B1

PUMPING ROOM DETAILS تفصيل غرفة الضخ

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: A33
		REHABILITATIONS OF GAWALLA WATER PROJECT		PUMPING ROOM DETAILS		SPRY - WASH Sector		Final Draft		N W E S		
		Project Location:		Project Name:		Approved by:		Project No:		Paper Size:		
		DARSAAD DISTRACT – ADEN GOV.		RAINS OF RESILIENCE 2025		SPRY - WASH Sector		Date		Scale		
								15/06/2025		A3 As Shown		



Stone break a 10cm
thick over rammed soil
صوانج سسماكة 10 سم فوق ترربة مدمكة

خرسانة عادية سسماكة 10 سم

مستوي
الارض GTL

Prepared by:



Funded by:



Project Title:

REHABILITATIONS OF GAWALLA
WATER PROJECT

Project Location:

DARSAAD DISTRACT –
ADEN GOV.

Drawing Title:

PUMPING ROOM 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

15/06/2025

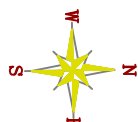
Paper Size:

A3

Scale

As Shown

North:



Drawing No:

A34