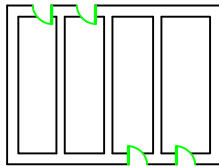
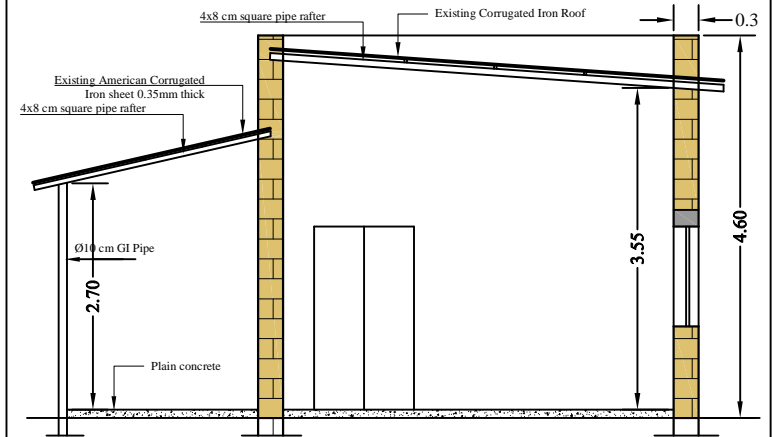


EXISTING
TOILETS



EXISTING



SECTION A - A

PROJECT:
REHABILITATION OF HEALTH FACILITIES

LOCATION:
WEST DARFUR STATE

CLIENT :
DARFUR REGIONAL AUTHORITY (DRA)

FUNDED BY:
QATAR

IMPLEMENTED BY :
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



REHABILITATION OF ABU REMAIL PHCC – EXISTING BUILDING & TOILETS

DESIGNED:
Samah Abdelhameed

APPROVED By:

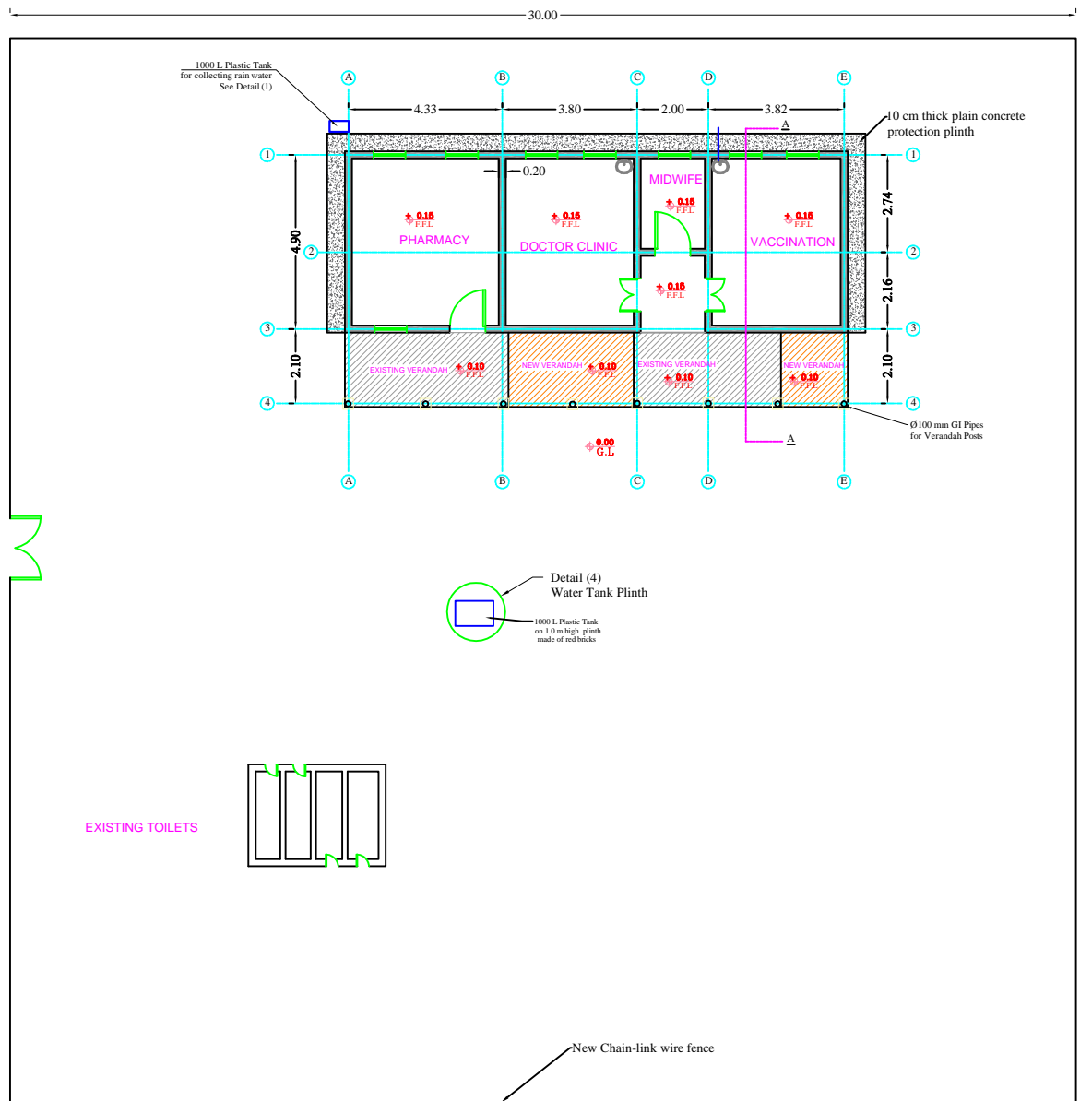
SCALE:
AS SPECIFIED

CHECKED:
Selah Hassan

CONTRACT NUMBER:

DATE: 2017

DRAWING NO:
ABUR- 01



FINISHES SCHEDULE

No	Room	Floor	Ceiling	Interior Walls	Exterior Walls
1	Pharmacy	30x30 cm ceramic tiles	60x60 cm gypsum board tiles	water based emulsion paint	Water based weather shield emulsion pain
2	Doctor Clinic	30x30 cm ceramic tiles	60x60 cm gypsum board tiles	water based emulsion paint	Water based weather shield emulsion paint
3	Midwife	30x30 cm ceramic tiles	60x60 cm gypsum board tiles	water based emulsion paint	Water based weather shield emulsion pain
4	Vaccination	Fair finish plain concrete	60x60 cm gypsum board tiles	water based emulsion paint	Water based weather shield emulsion pain
5	Corridor	30x30 cm ceramic tiles	60x60 cm gypsum board tiles	water based emulsion paint	Water based weather shield emulsion pain
6	Verandah	Fair finish plain concrete	No	No	Water based weather shield emulsion pain

NOTES:

- Protect and safeguard existing building and services which may be affected by this work.
- Report any unforeseen conditions to the Engineer before proceeding.
- All dimensions to existing to be verified on site.
- Perform cast-in-place concrete work in accordance with specifications
- Cement type is Portland cement
- Plain concrete grade 20
- Reinforced concrete grade 30
- Reinforcement steel $F_y = 460 \text{ N/mm}^2$

PROJECT:
REHABILITATION OF HEALTH FACILITIES

LOCATION:
WEST DARFUR STATE

CLIENT :
DARFUR REGIONAL AUTHORITY (DRA)

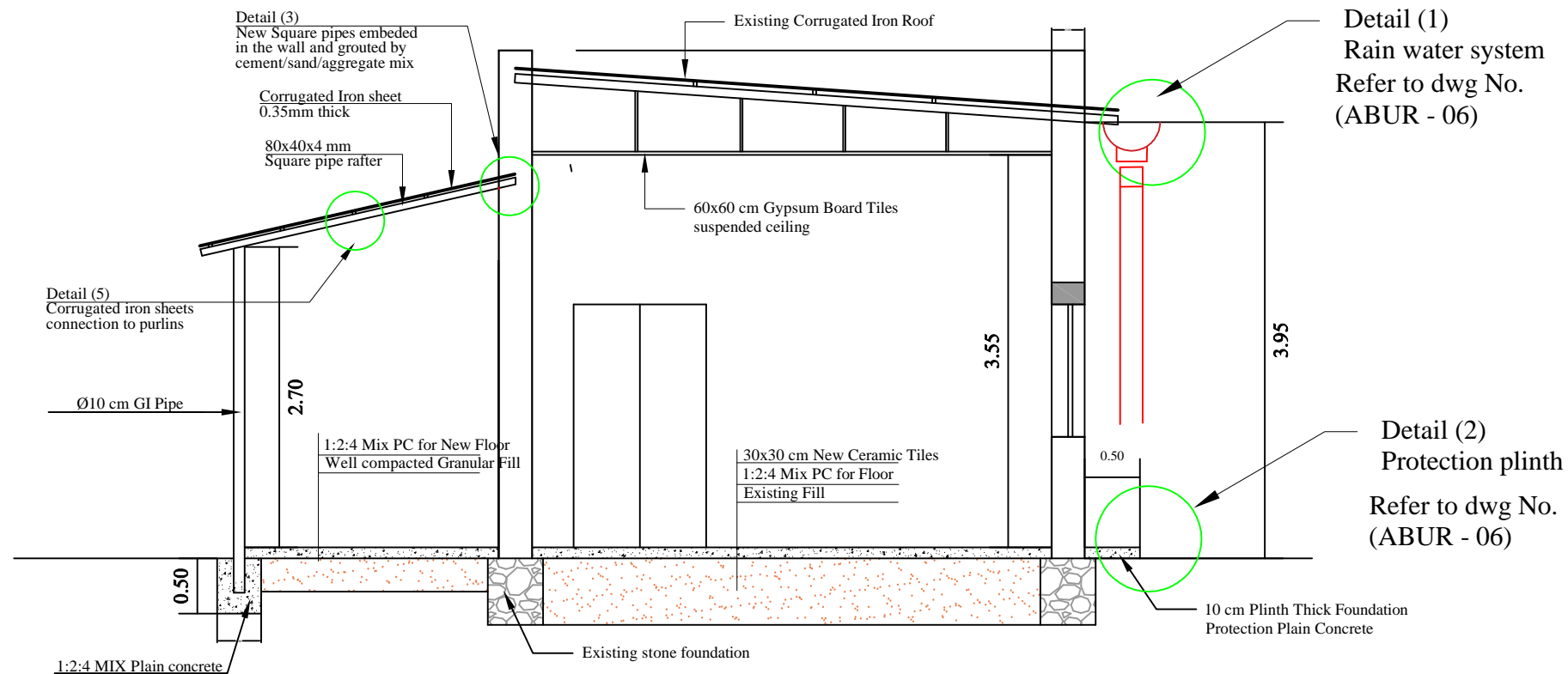
FUNDED BY:
QATAR

IMPLEMENTED BY :
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



REHABILITATION OF ABU REMAIL PHCC – RENOVATION WORKS PLAN

SIGN.	DESIGNED: Samah Abdelhameed	APPROVED By:	SCALE: AS SPECIFIED
CHECKED: Salah Hassan	CONTRACT NUMBER:	DATE: 2017	DRAWING NO: ABUR - 02



SECTION A - A

PROJECT:
REHABILITATION OF HEALTH FACILITIES

LOCATION:
WEST DARFUR STATE

CLIENT :
DARFUR REGIONAL AUTHORITY (DRA)

FUNDED BY:
QATAR

IMPLEMENTED BY :
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



REHABILITATION OF ABU REMAIL PHCC – RENOVATION SECTION A-A

SIGN.

DESIGNED:
Samah Abdelhameed

APPROVED By:

SCALE:
AS SPECIFIED

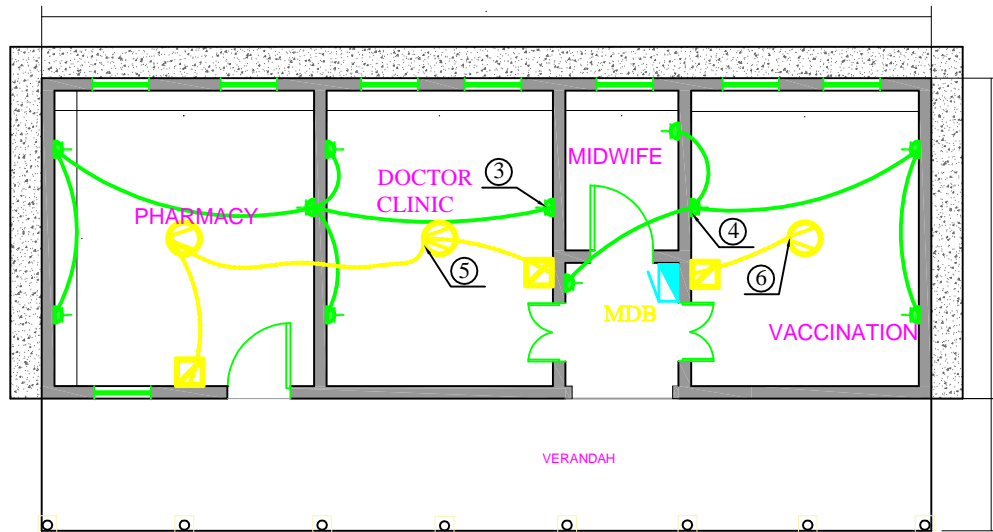
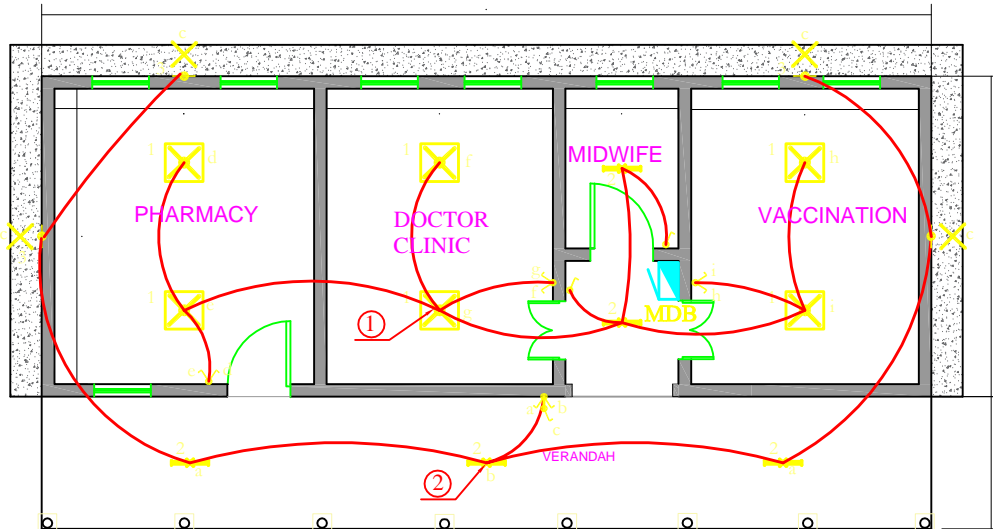
CHECKED:
Saleh Hassan

CONTRACT NUMBER:

DATE: 2017

DRAWING NO:

ABUR - 03



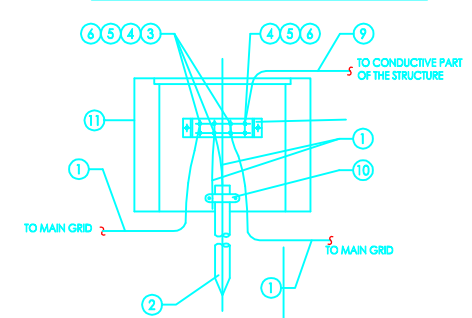
Light fitting Schedule					
Item No	Mounting	Lamp		IP Rating	Description (Specified or approved equivalent)
		#	[W]	Type	
1	Ceiling	4	18	FL.	GECEM GCP 418C T26M 4x18W
2	Ceiling	2	18	FL.	GECEM GCP 218C T26M 2x18W
3	Wall	1	40	C.FL.	Massive 71425/01/31 with E27 40W

Distribution Board Schedule												
Panel Name: MDB												
Service Voltage: 220V, (1-ph), 2 wire + PE, 50HZ				Bus Type: TPN + PE				Mounting: Flush				
				Bus Rating: 63A/10KA				IP Rating: IP = 44				
				Enclosure: Steel Sheet								
Circuit #	Load Description	Load (KVA)	Circuit Breaker		Number of Poles	Wire Crosssection (mm²)	Conduit Ø (mm)	Phase			Remark	
			Rating (A)					R	S	T		
1	Lighting	0.80	10		1	3x2.5	16	•				
2	Lighting	0.70	10		1	3x2.5	16	•				
3	Socket outlet	1.50	16		1	3x2.5	16	•				
4	Socket outlet	1.25	16		1	3x2.5	16	•				
5	Power to FAN	1.00	16		1	3x2.5	16	•				
6	Power to FAN	0.50	16		1	3x2.5	16	•				
	Reserve (25%)											
	Main Switch	25A/1ph, MCB			KVA Connected (S _{Top})			5.75				
	Location	Bottom			Diversity			0.8				
	Feeder Cable	3x4mm²			KVA Demand (S _{Max})			4.60				
	P.V.C. Conduit	Ø19mm			KW Demand (P _{Max})			3.68				
	Power Source	from Source kwhm			Current (A)			20.91				

LEGEND

	16A Socket outlet (Flush mounted) with 3x2.5mm ² fixed over 30cm above F.F.L.
	Ceiling mounted luminaire
	Wall mounted luminaire
	Fluorescent
	Compact Fluorescent
	Double Fluorescent Fitting
	Single-Pole Switch
	Double-Pole Switch
	Triple Switch
	Ceiling mounted FAN
	FAN Speed Control
	Distribution Board (Flush mounted)

EARTHING SYSTEM DETAIL AT THE EARTHING PIT



TYPE	DESCRIPTION
1	EARTH STRANDED COPPER CONDUCTOR = 1 x 6mm ²
2	EARTH ELECTRODE - COPPER ROD 1200 x 10mm
3	COMPRESSION CABLE TERMINAL FOR ROPE IN Cu Ø14.7 (HOLE Ø13)
4	PIN STAINLESS STEEL M12X40
5	FLAT WASHER IN STAINLESS STEEL Ø13 mm
6	DIE IN STAINLESS STEEL M12
7	GROUND STRAP IN Cu DIM. 250 x 100 x 6mm
8	EXPANSION SMALL BLOCK M10
9	FLAT IN Cu 30 x 3mm
10	CLAMP TERMINAL (EARTH ROD TO CONDUCTOR)
11	MANHOLE SIZE OF 400 x 400 x 900MM WITH CONCRETE COVER HAVING LIFTING LUG

PROJECT:
REHABILITATION OF HEALTH FACILITIES

LOCATION:
WEST DARFUR STATE

CLIENT :
DARFUR REGIONAL AUTHORITY (DRA)

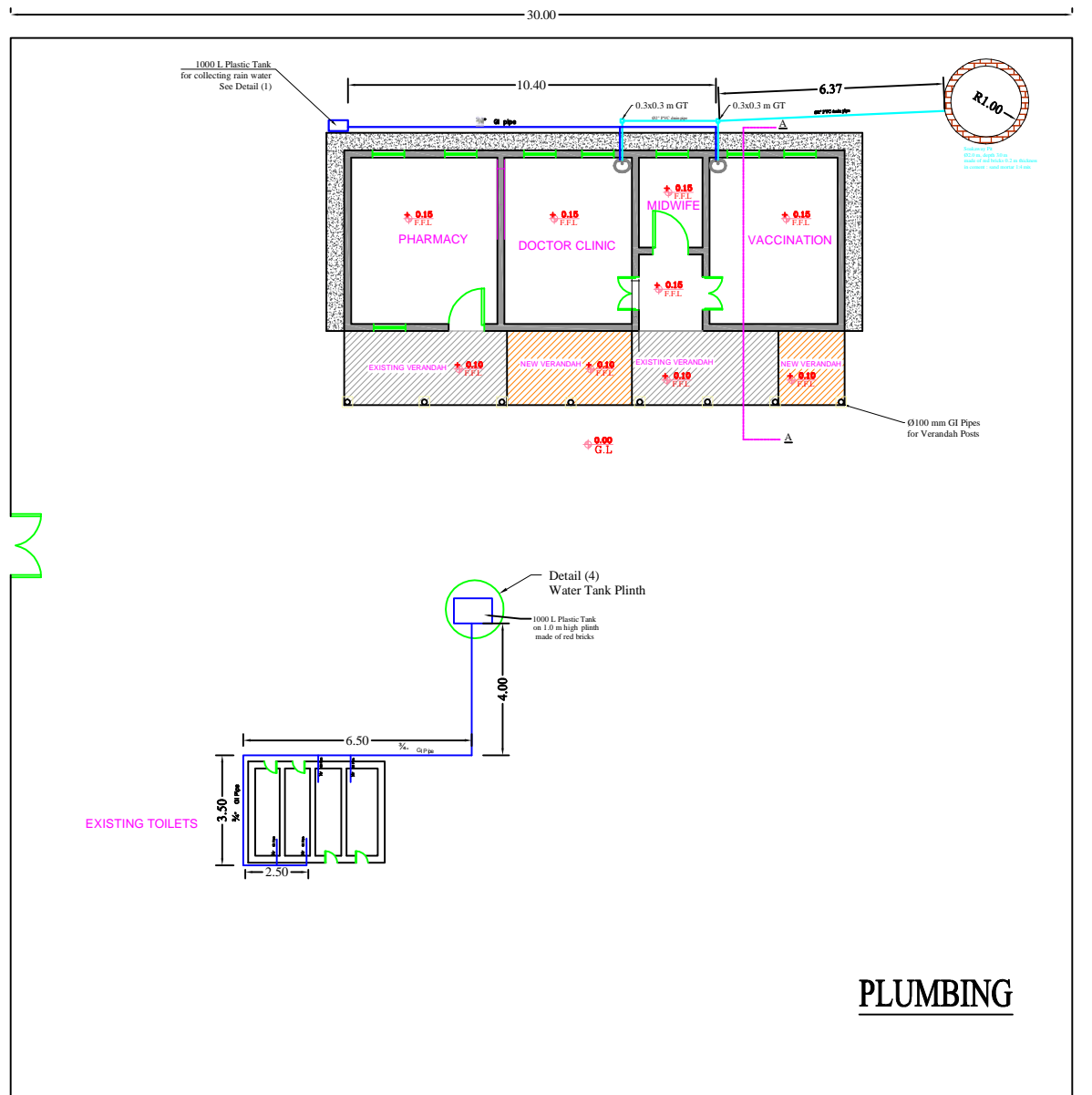
FUNDED BY:
QATAR

IMPLEMENTED BY :
UNITED NATIONS OFFICE
FOR PROJECT SERVICES





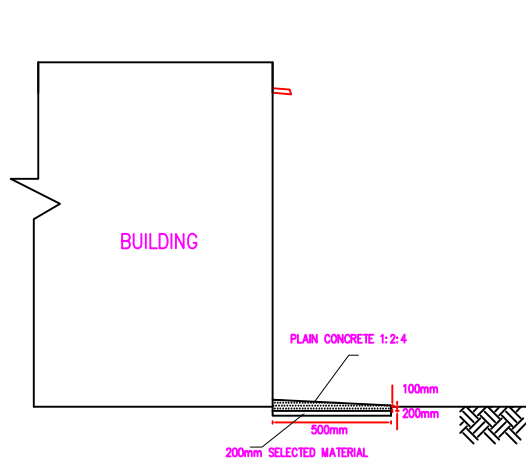
REHABILITATION OF ABU REMAIL PHCC – ELECTRICAL

	SIGN.		DESIGNED: ASHENAFI DURESSA	APPROVED By:	SCALE: AS SPECIFIED
	CHECKED:		CONTRACT NUMBER:	DATE: 2017	DRAWING NO: ABUR - 04

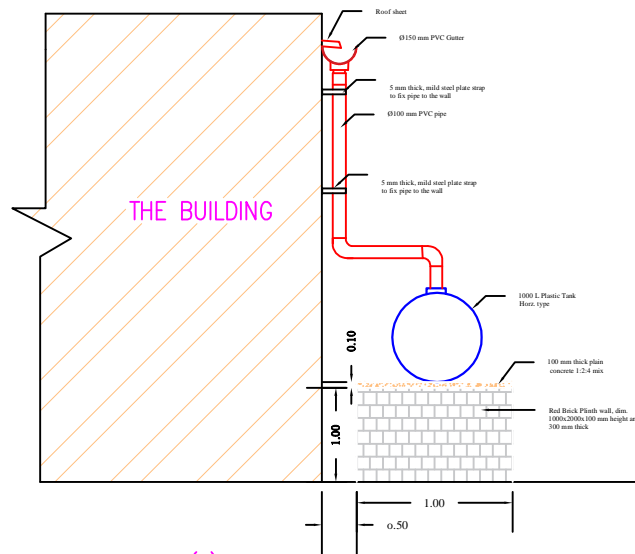


PLUMBING

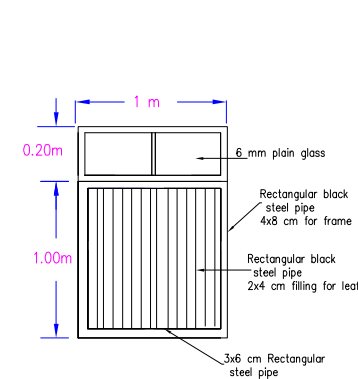
PROJECT: REHABILITATION OF HEALTH FACILITIES		CLIENT : DARFUR REGIONAL AUTHORITY (DRA) 		REHABILITATION OF ABU REMAIL PHCC – RENOVATION WORKS										
LOCATION: WEST DARFUR STATE		FUNDED BY: QATAR				SIGN.	DESIGNED: Samah Abdelhameed		APPROVED By:		SCALE: AS SPECIFIED			
							CHECKED: Salah Hassan		CONTRACT NUMBER:		DATE: 2017		DRAWING NO: ABUR – 06	
		IMPLEMENTED BY : UNITED NATIONS OFFICE FOR PROJECT SERVICES 												



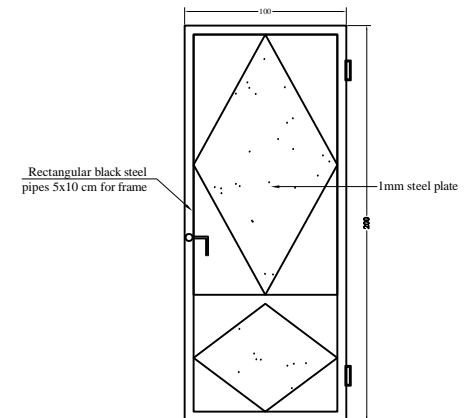
DETAIL (2)
FOUNDATION PROTECTION PLINTH



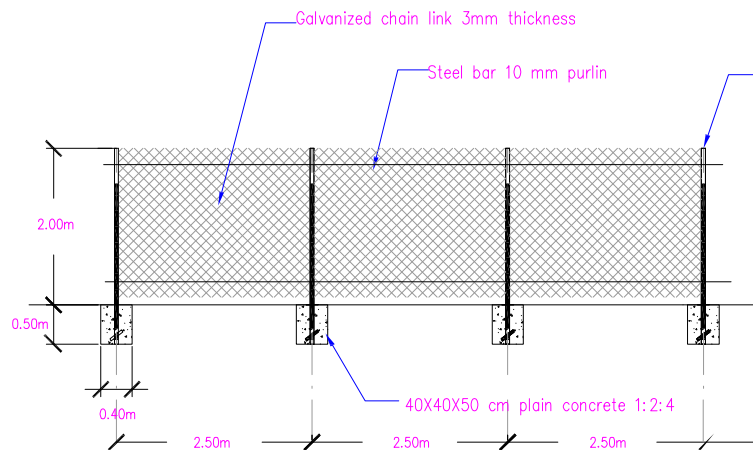
DETAIL (1)
RAIN WATER HARVESTING SYSTEM



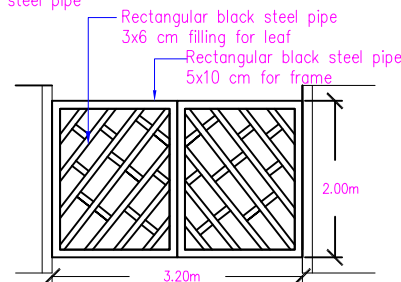
DETAIL OF W1



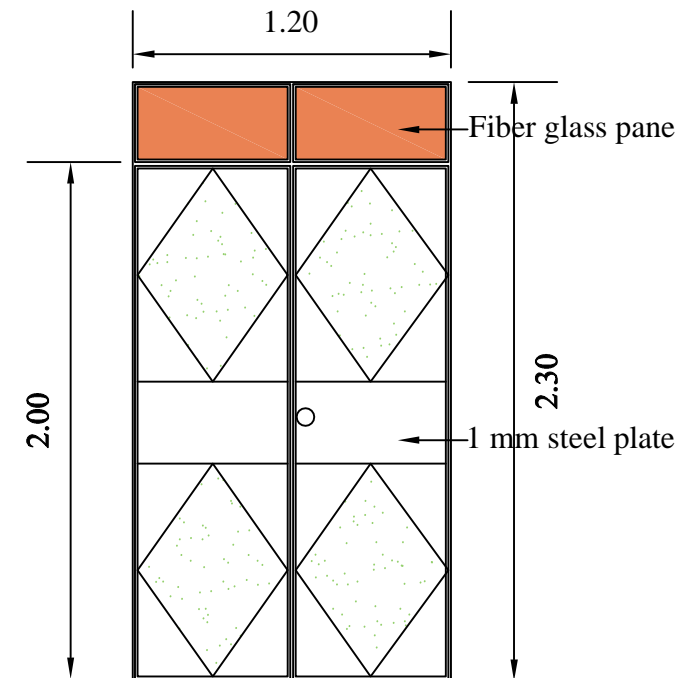
D1 - ROOMS



FENCE DETAILS



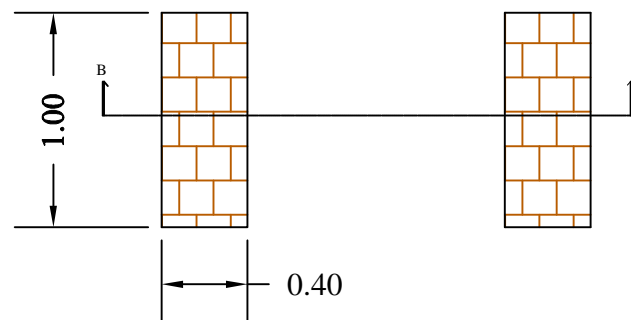
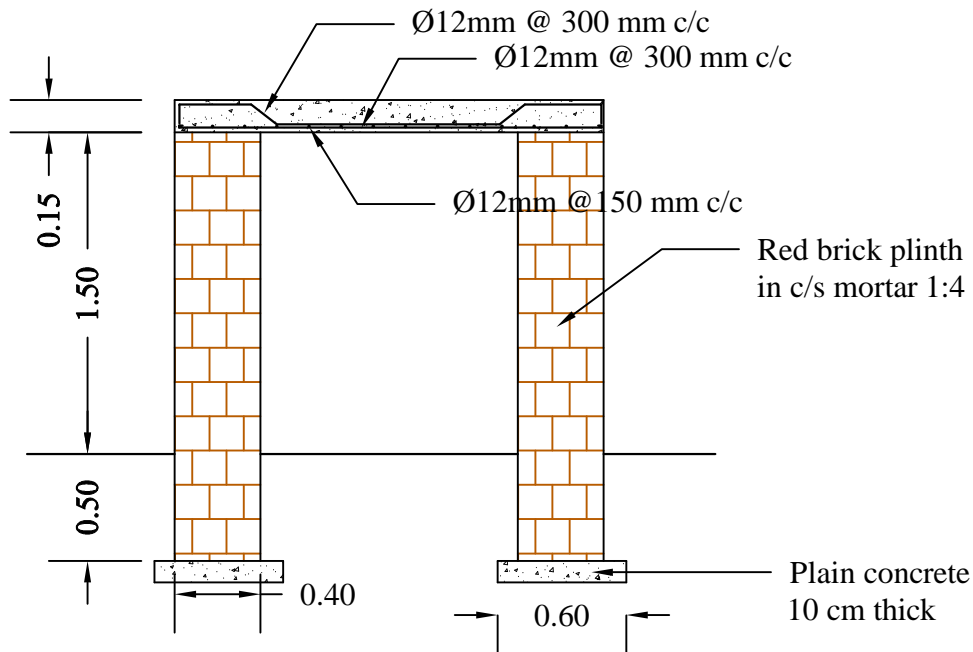
D3
MAIN GATE



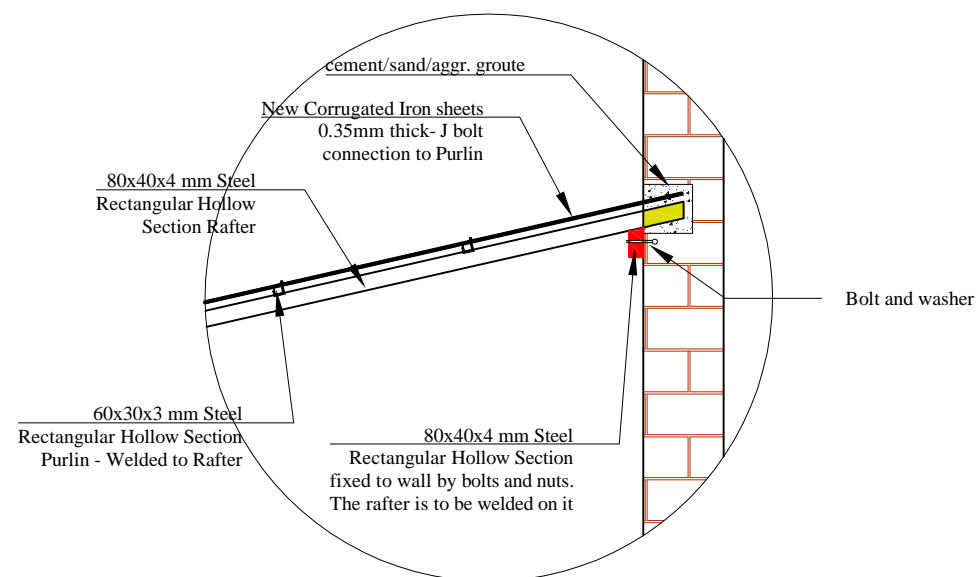
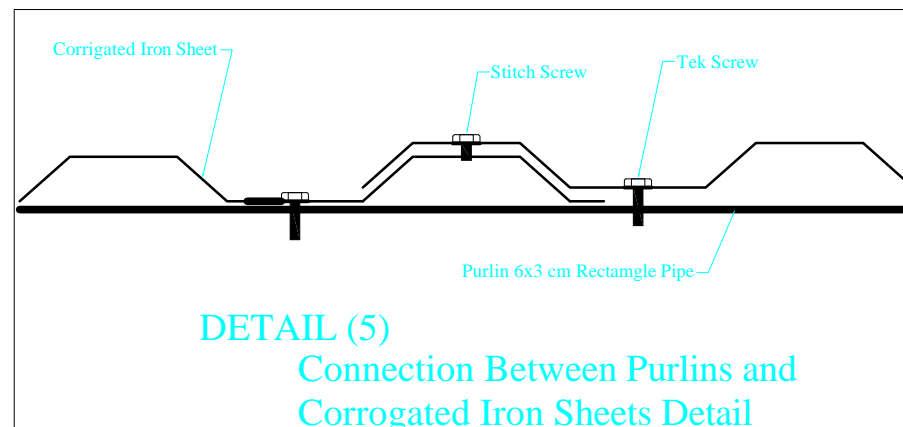
D2 - ROOMS

DETAILS

PROJECT: REHABILITATION OF HEALTH FACILITIES	CLIENT : DARFUR REGIONAL AUTHORITY (DRA)	REHABILITATION OF ABU REMAIL PHCC - DETAILS			
LOCATION: WEST DARFUR STATE	FUNDED BY: QATAR	SIGN.	DESIGNED: Samah Abdelhameed	APPROVED By:	SCALE: AS SPECIFIED
	IMPLEMENTED BY : UNITED NATIONS OFFICE FOR PROJECT SERVICES		CHECKED: Salah Hassan	CONTRACT NUMBER:	DRAWING NO: ABUR - 06-1



DETAIL (4)
WATER TANK PLINTH



Detail (3)

PROJECT:
REHABILITATION OF HEALTH FACILITIES

LOCATION:
WEST DARFUR STATE

CLIENT :
DARFUR REGIONAL AUTHORITY (DRA)

FUNDED BY:
QATAR

IMPLEMENTED BY :
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



REHABILITATION OF ABU REMAIL PHCC – DETAILS

SIGN.

DESIGNED: Samah Abdelhameed

APPROVED By:

SCALE:

AS SPECIFIED

CHECKED: Salah Hassan

CONTRACT NUMBER:

DATE: 2017

DRAWING NO:

ABUR - 06-2