UNOPS ,ETHIOPIA OPERATIONAL HUB

Addis Ababa - Ethiopia

UNOPS

United Nations Office on Drugs and Crime

UNODC
United Nations Office on Drugs and Crime

Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Gendarmerie Nationale
Djibouti

October 2018

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GENERAL NOTES:

Rev.:	Date:	Description:	Approved
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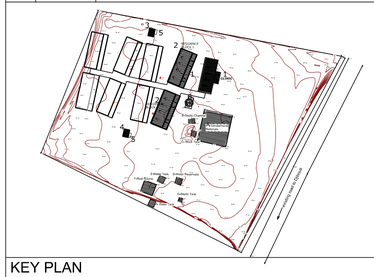

KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB, Djibouti Office — UNOPS

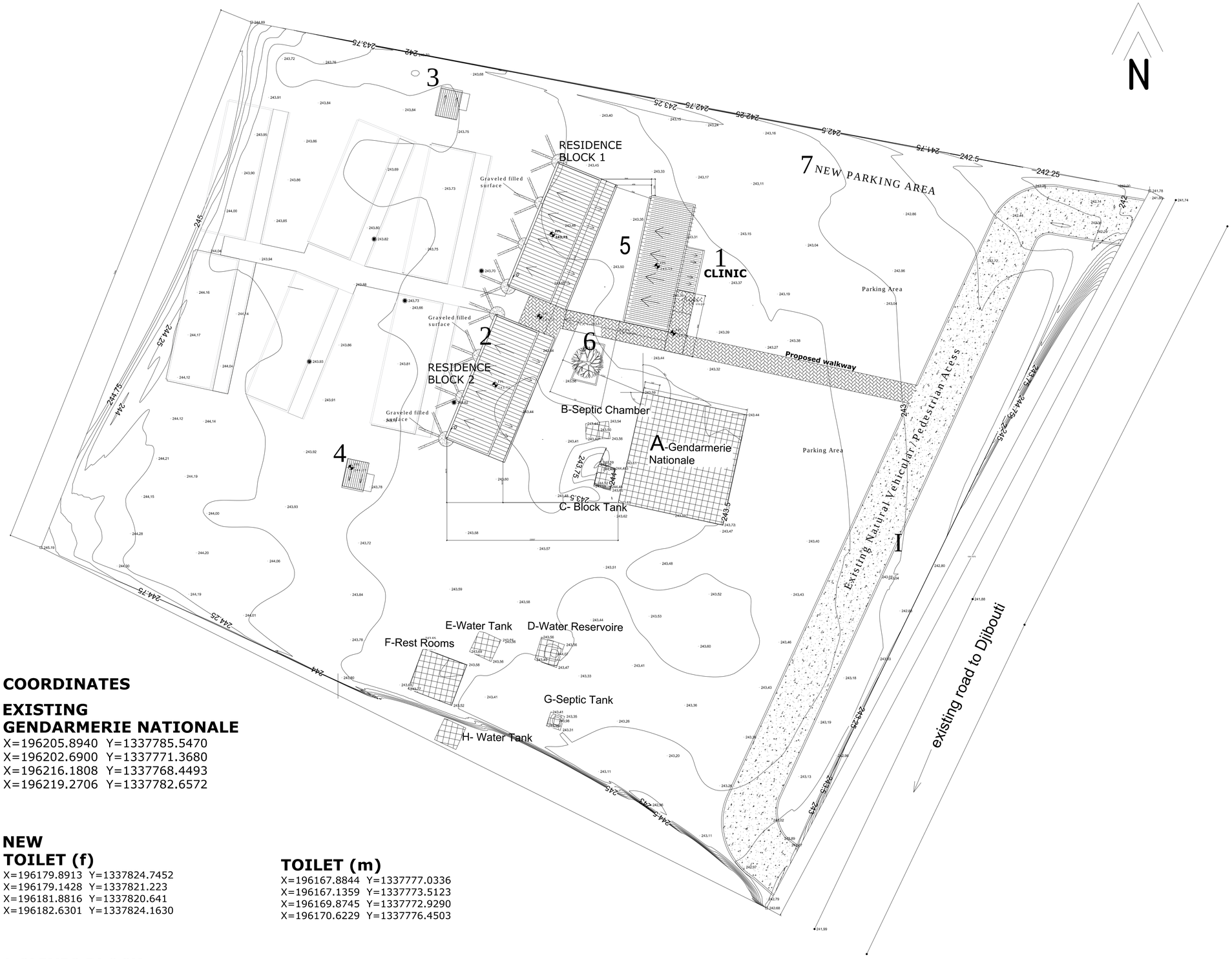
Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

Drawing Title: DRAWING INDEX

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AE	ST	00	28	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	A1	1 : 00	10 / 22 /2018	0



COORDINATES

EXISTING GENDARMERIE NATIONALE

X=196205.8940 Y=1337785.5470
X=196202.6900 Y=1337771.3680
X=196216.1808 Y=1337768.4493
X=196219.2706 Y=1337782.6572

NEW TOILET (f)

X=196179.8913 Y=1337824.7452
X=196179.1428 Y=1337821.223
X=196181.8816 Y=1337820.641
X=196182.6301 Y=1337824.1630

TOILET (m)

X=196167.8844 Y=1337777.0336
X=196167.1359 Y=1337773.5123
X=196169.8745 Y=1337772.9290
X=196170.6229 Y=1337776.4503

1 CLINIC BLOCK

X=196213.0485 Y=1337809.6222
X=196206.9878 Y=1337810.9291
X=196203.4677 Y=1337794.6043
X=196209.5284 Y=1337793.2974

2 RESIDENCE BLOCK 1

X=196202.7947 Y=1337812.1782
X=196196.2669 Y=1337796.1570
X=196189.0414 Y=1337799.1024
X=196195.5687 Y=1337815.1224

2 RESIDENCE BLOCK 2

X=196189.1304 Y=1337795.0673
X=196196.3595 Y=1337792.1218
X=196189.8321 Y=1337776.1017
X=196182.6061 Y=1337779.0459

GENERAL NOTES:

legend

Existing

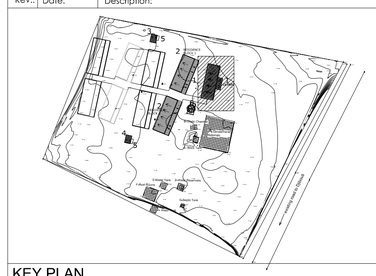
A Gendarmerie Nationale
b septic Chamber
C Block Tank
D Water Reservoire
E Water Tank
F Rest Room
G Septic Tank
H Water Tank
I Existing Parking Area

New

1 Clinic
2 Residence
3 Toilet (female)
4 Toilet (Male)
5 Septic Tank
6 Green Area
7 New Parking Area
Tree

FUTURE EXPANSION

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



KEY PLAN

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Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	**Implemented By:**
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	**Design:**
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

(MASTER PLAN)

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
ST			ST	01	11	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
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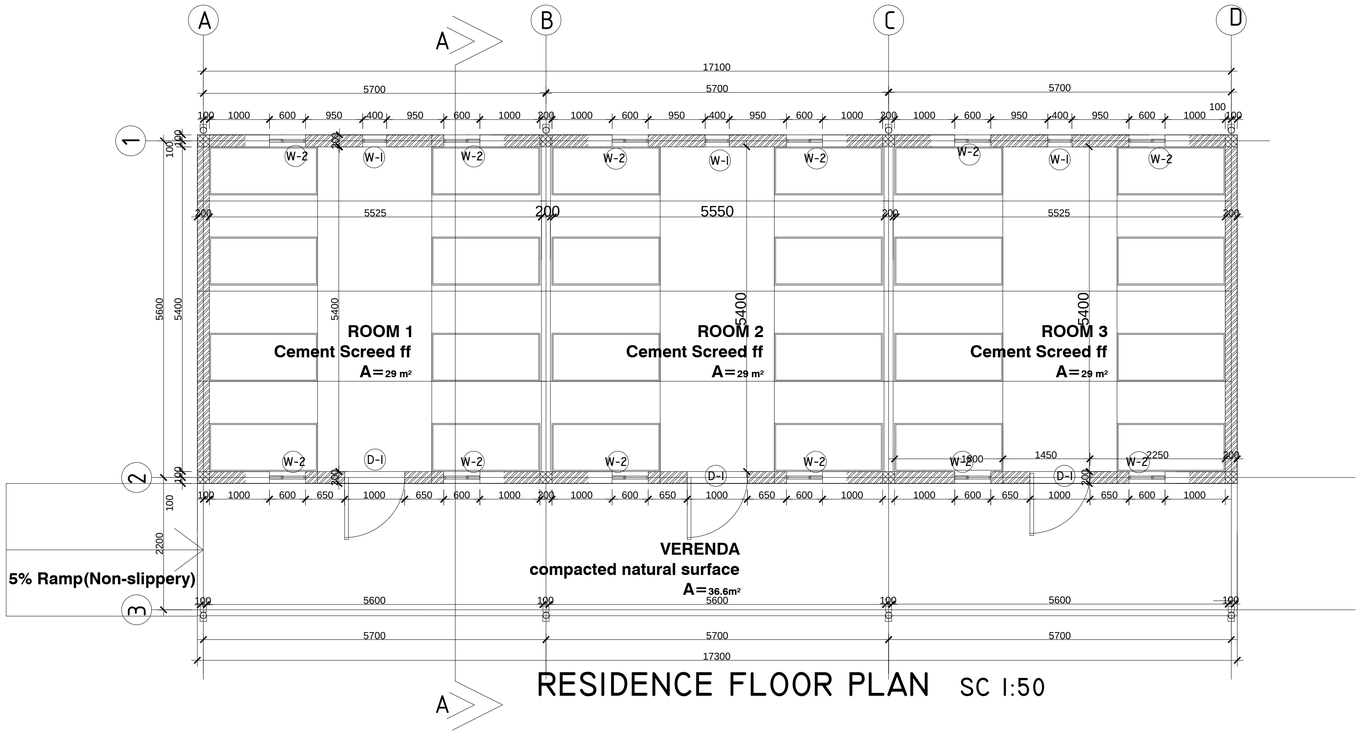
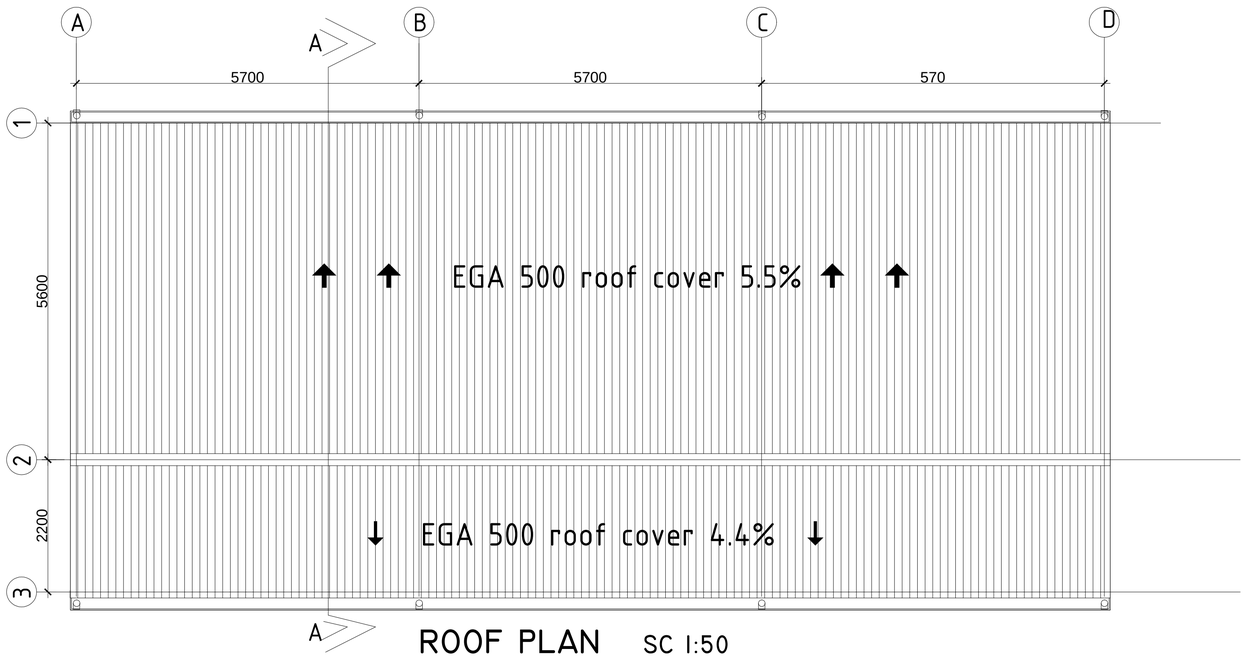


RESIDENCE FLOOR PLAN SC 1:50

FINISHING SCHEDULE FOR RESIDENCE BLOCK

ROOM	AREA	FLOOR FINISH	WALL FINISH	CEILING FINISH
RESIDENCE ROOMS		Cement Screed floor finish	Gypsum plastered and painted HCB wall internally and Cement plastered and painted finish exterior wall	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure
VERANDA		compacted natural floor suraface	Gypsum plastered and painted HCB wall.	none



ROOF PLAN SC 1:50

GENERAL NOTES:

Rev.:	Date:	Description:	
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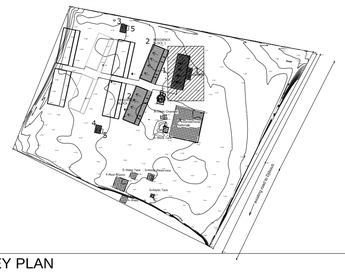
			Approved



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB, Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

Drawing Title: (RESIENCE) FLOOR & ROOF PLAN

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
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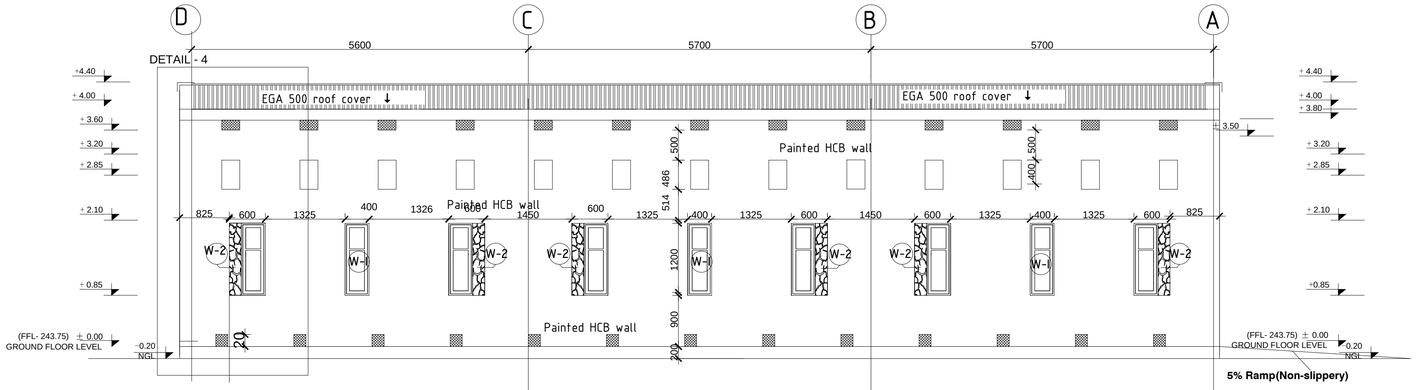
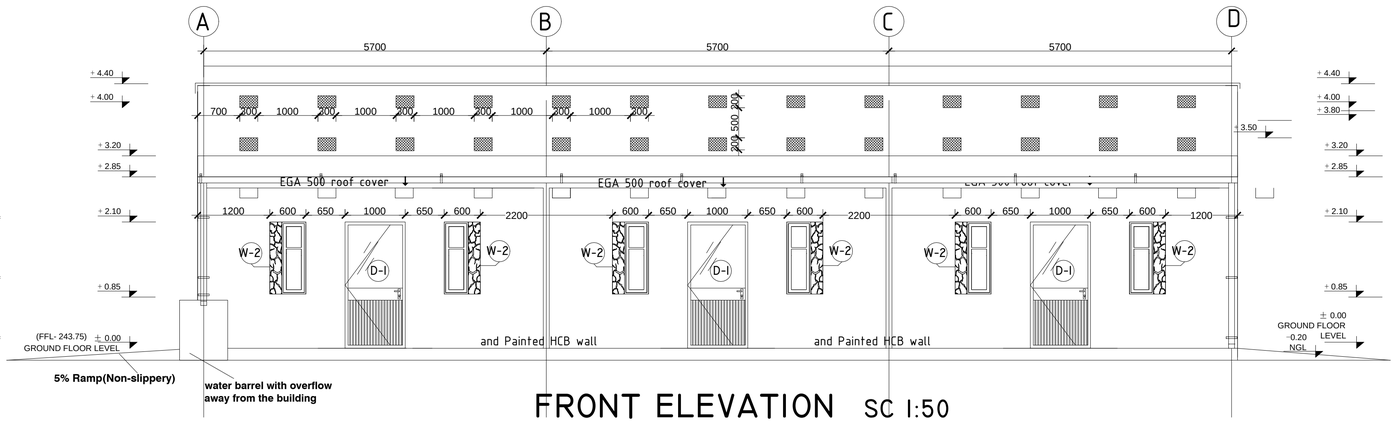
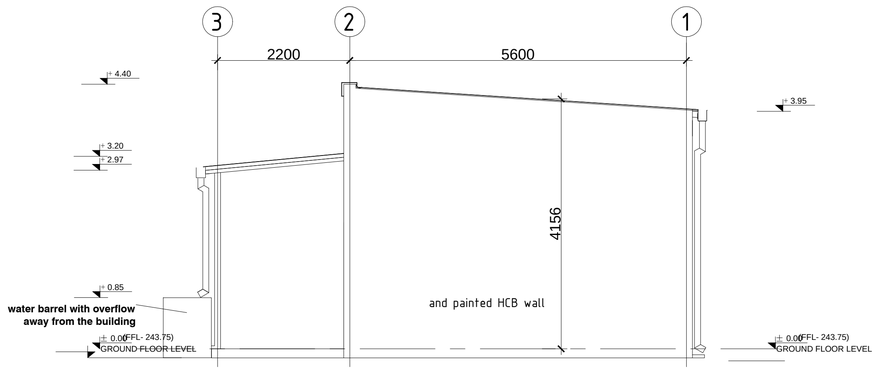


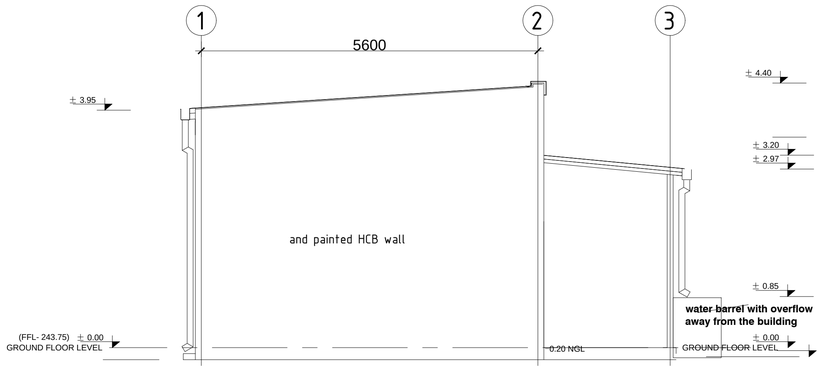
REAR SIDE ELEVATION SC 1:50



FRONT ELEVATION SC 1:50



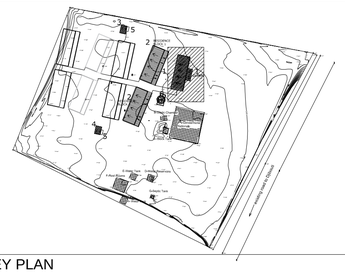
RIGHT SIDE ELEVATION SC 1:50



LEFT SIDE ELEVATION SC 1:50

GENERAL NOTES:

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



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Funded By:	Partner:
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Program:	**Implemented By:**
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	**Design:**
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

(RESIENCE)

ELEVATIONS

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
ST			AR	03	11	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
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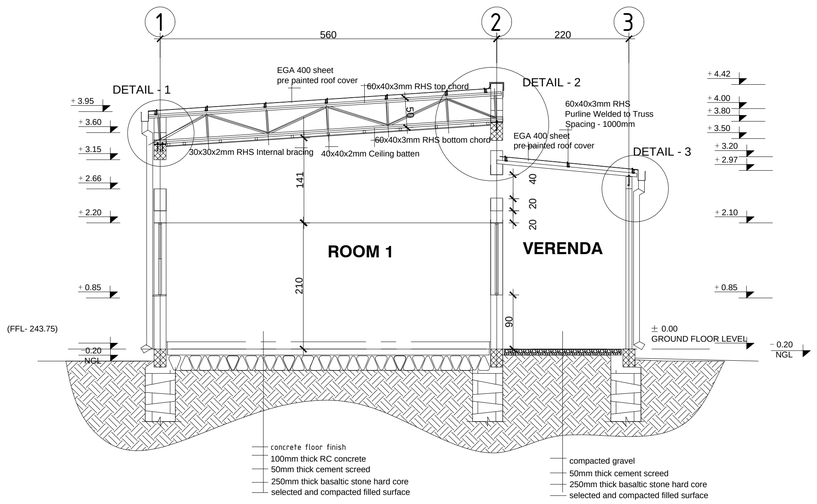
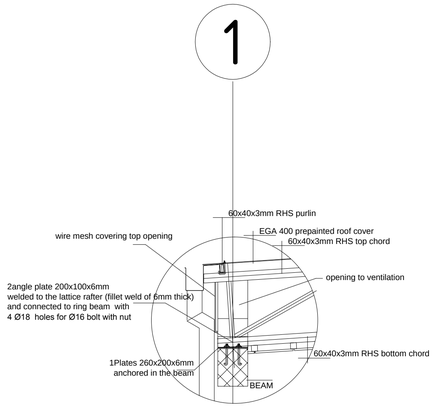


SECTION A-A

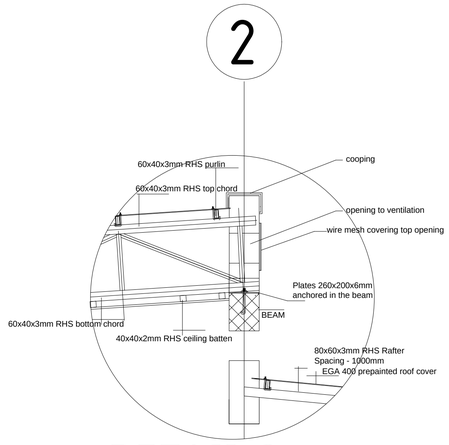
RESIDENCE SC

1:50



DETAIL 1 SC

1:20



DETAIL 2 SC

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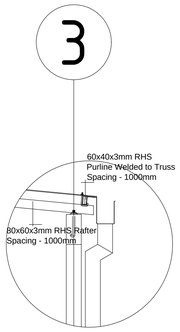

DETAIL 3 SC

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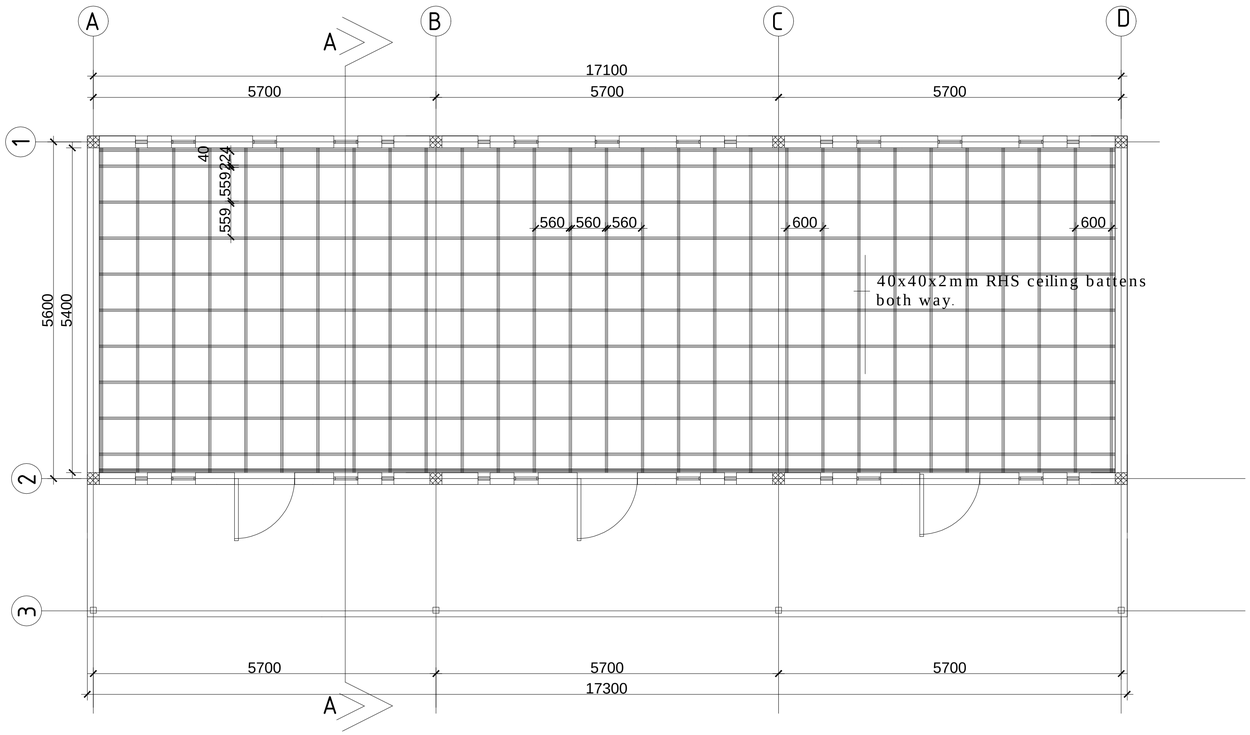
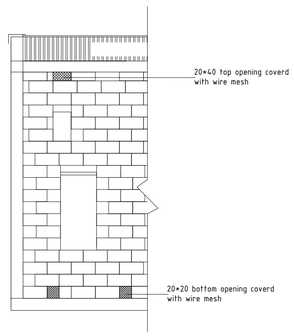


REFLECTED CEILING FLOOR PLAN SC 1:50



DETAIL 4 SC

1:50

GENERAL NOTES:

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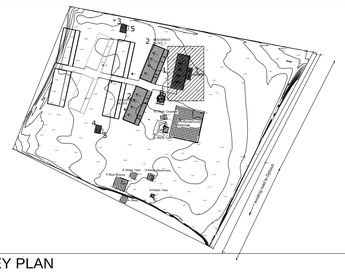
			Approved



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Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	Implemented By:
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

(RESIENCE)

SECTION & REFLECTED CEILING PLAN

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
ST			AR	04	11	R0
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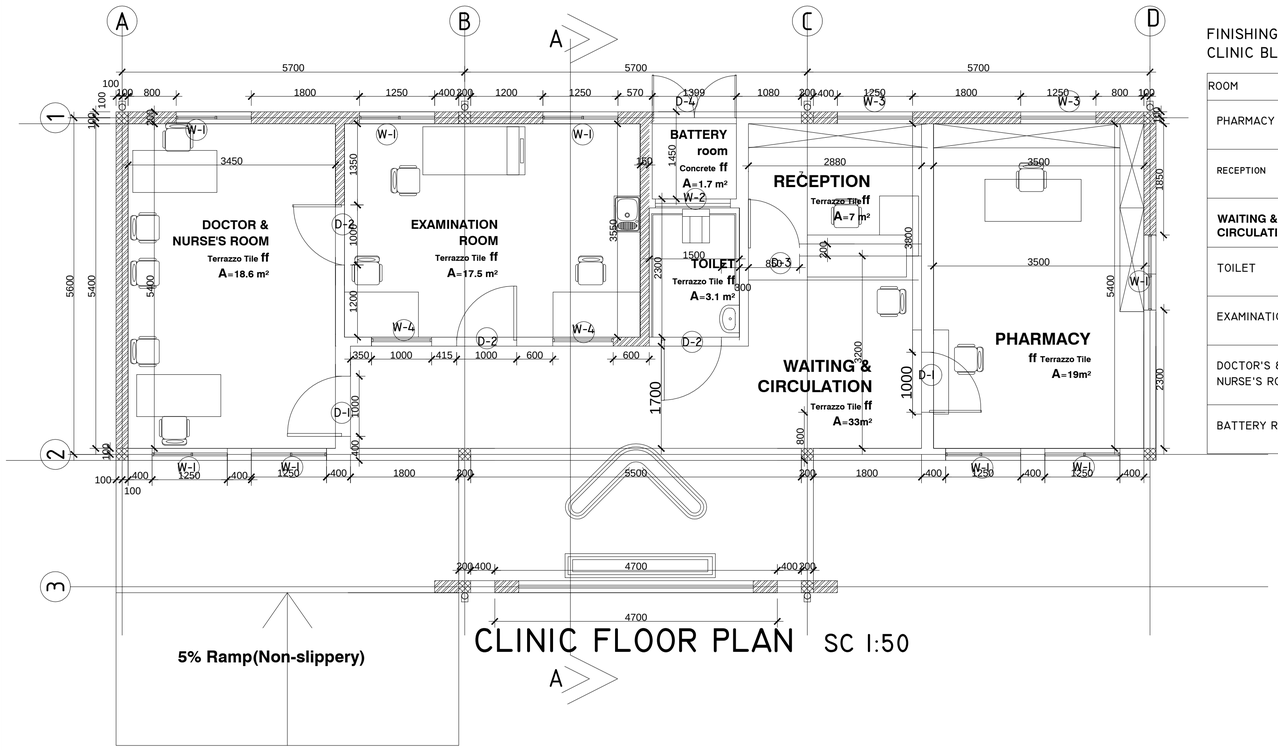
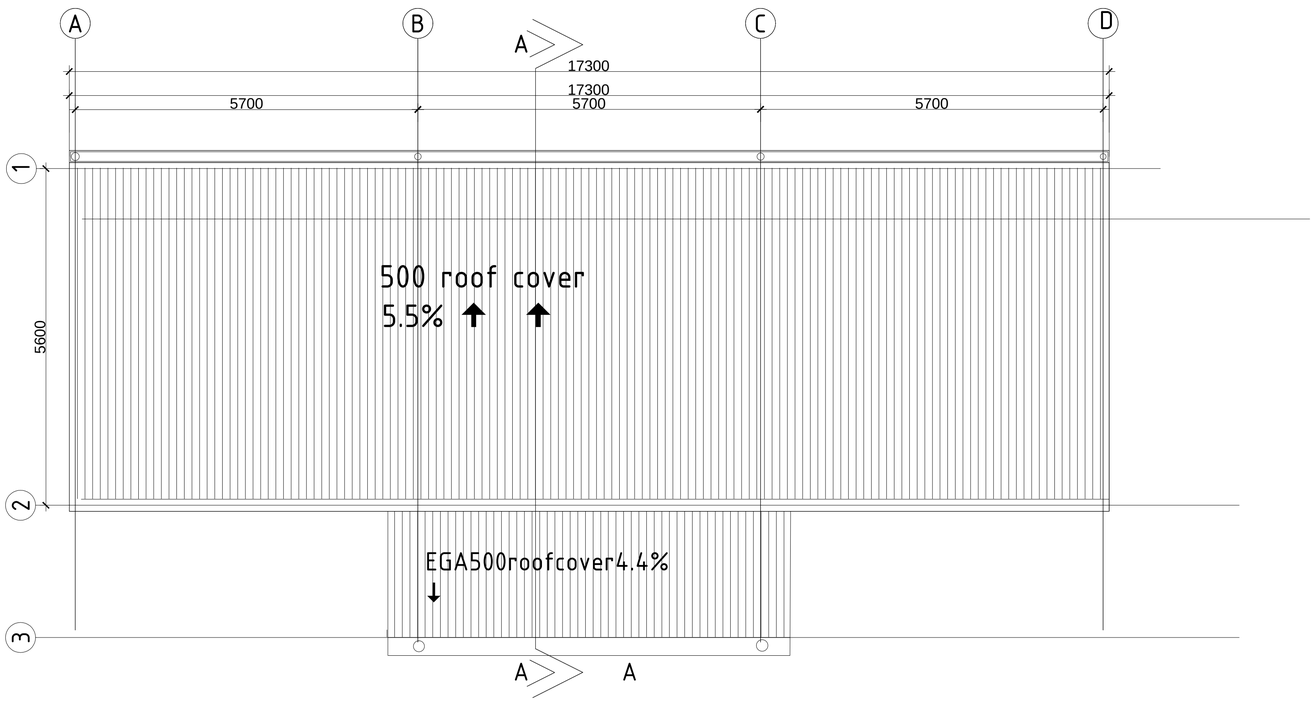


CLINIC FLOOR PLAN SC 1:50

FINISHING SCHEDULE FOR CLINIC BLOCK

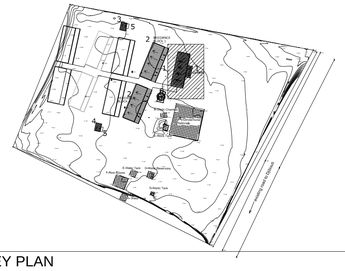
ROOM	AREA	FLOOR FINISH	WALL FINISH	CEILING FINISH
PHARMACY		20mm thick Terrazzo tile floor finish on 30mm thick mortar bedding	Gypsum plastered and painted HCB wall.	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure and with aluminum foil on top of it
RECEPTION		20mm thick Terrazzo tile floor finish on 30mm thick mortar bedding	Gypsum plastered and painted HCB wall.	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure and with aluminum foil on top of it
WAITING & CIRCULATION		20mm thick Terrazzo tile floor finish on 30mm thick mortar bedding	Gypsum plastered and painted HCB wall.	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure and with aluminum foil on top of it and partially none
TOILET	3.1	20mm thick Terrazzo tile floor finish on 30mm thick mortar bedding	Gypsum plastered and painted HCB wall.	None
EXAMINATION ROOM	17.5	20mm thick Terrazzo tile floor finish on 30mm thick mortar bedding	Gypsum plastered and painted HCB wall.	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure and with aluminum foil on top of it
DOCTOR'S & NURSE'S ROOM	18.6	20mm thick Terrazzo tile floor finish on 30mm thick mortar bedding	Gypsum plastered and painted HCB wall.	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure and with aluminum foil on top of it
BATTERY ROOM	1.7	Concrete floor finish	plastered and HCB wall.	8mm thick chipboard ceiling with 600mm x 600mm RHS purling suspended to roof structure and with aluminum foil on top of it



ROOF PLAN SC 1:50

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime Djibouti

Partner: Gendarmerie Nationale Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia

Drawing Title: (CLINIC) FLOOR & ROOF PLAN

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
ST	AR	05	11	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
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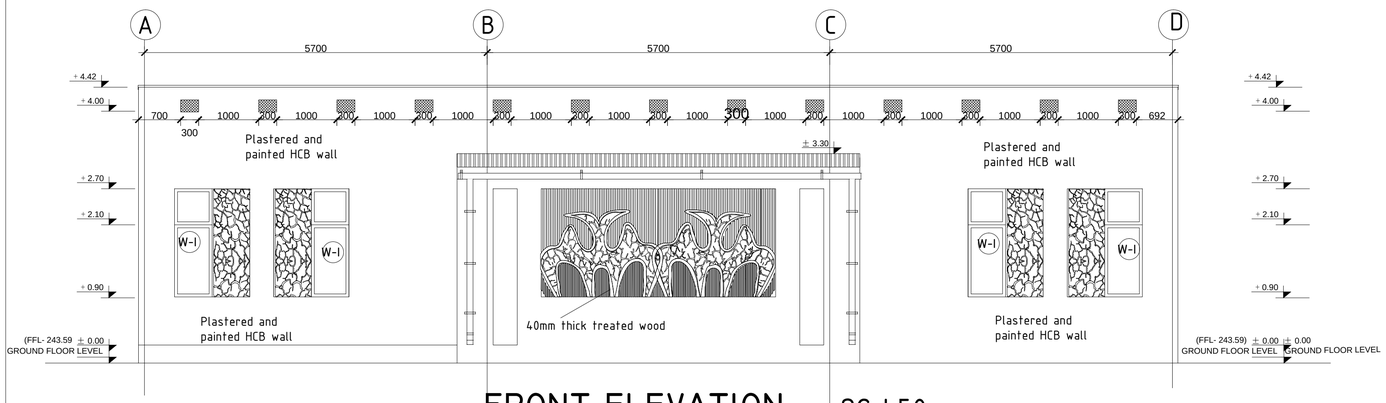
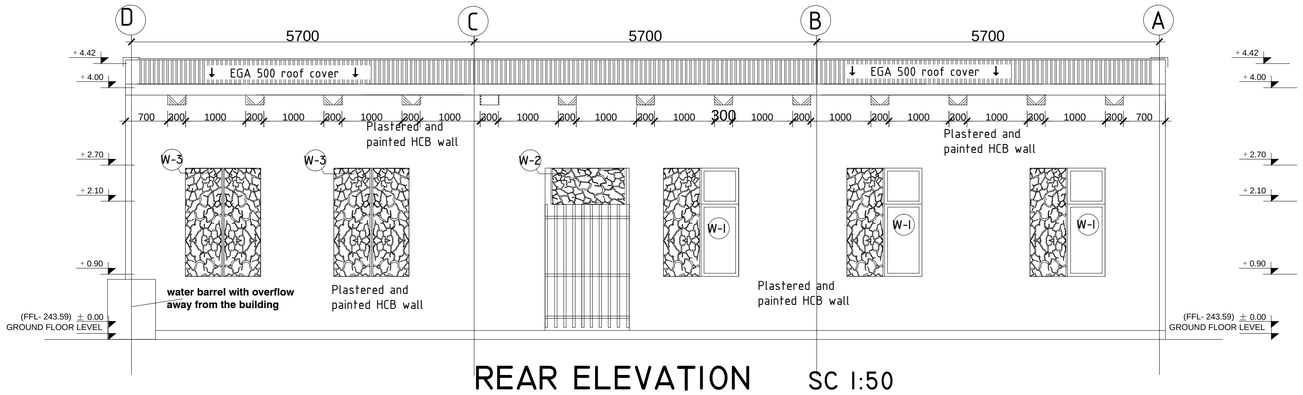


FRONT ELEVATION SC 1:50



REAR ELEVATION SC 1:50

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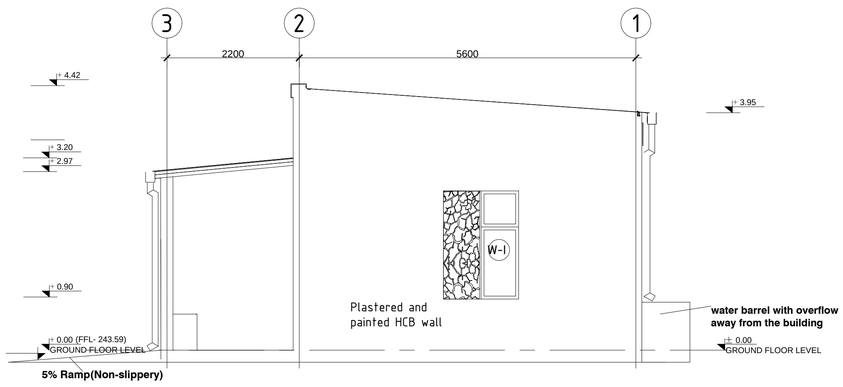
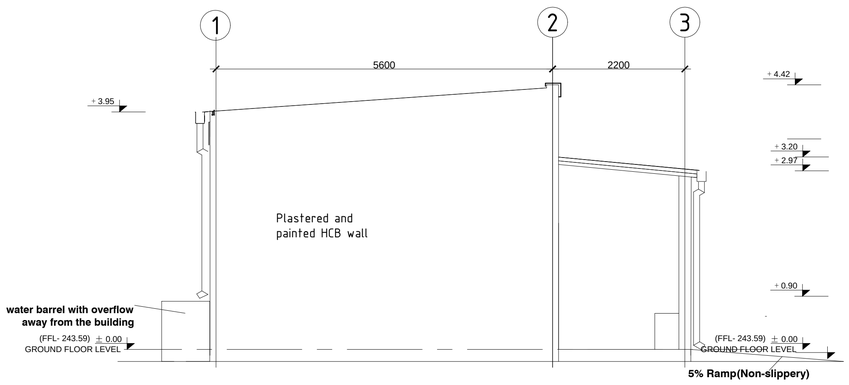


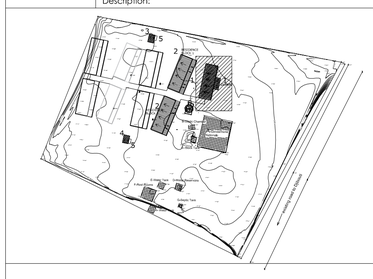
RIGHT SIDE ELEVATION SC 1:50



LEFT SIDE ELEVATION SC 1:50

GENERAL NOTES:

10 22 2018	Original	On process
	Description:	Approved



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Partner:

United Nations Office on Drugs and Crime — UNODC United Nations Office on Drugs and Crime

Gendarmerie Nationale — Djibouti

Implemented By:

Countering Transnational Organized Crime and Trafficking in Djibouti

UNOPS , ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

Design:

Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

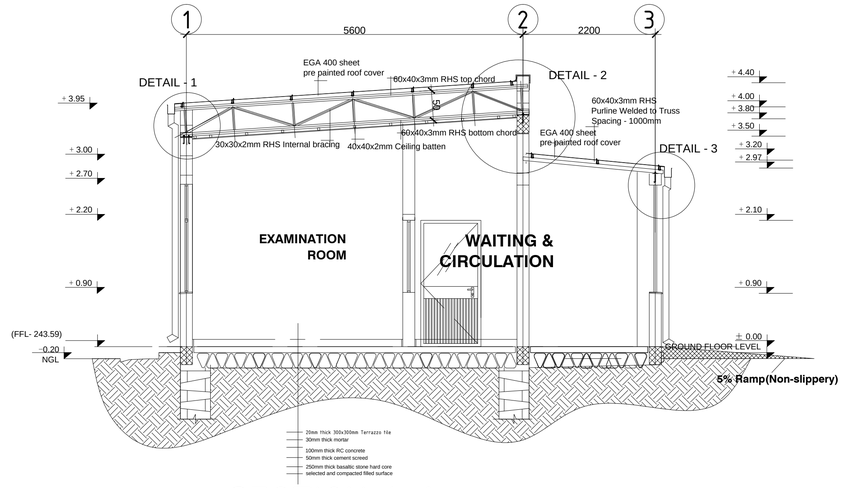
UNOPS ,ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia — UNOPS

(CLINIC)

ELEVATIONS

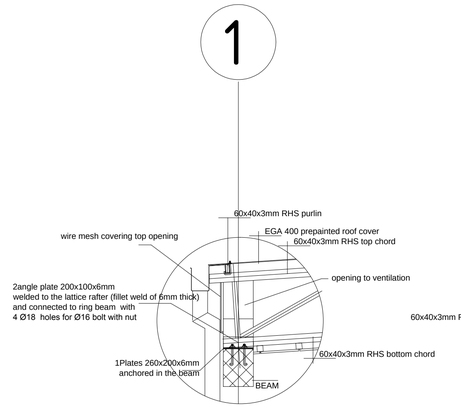
Discipline:	Dr. No:	Tot. No:	Rev No:
AR	06	11	R0

Checked:	Approved:	Size:	Scale:	Date:	Rev.:
	SM	A1	1 : 50	10 / 22 /2018	0



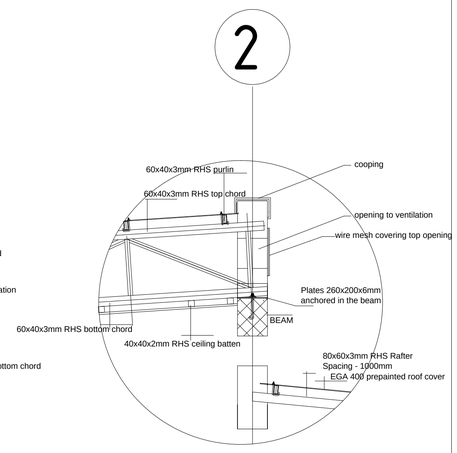
SECTION A-A

CLINIC SC 1:20



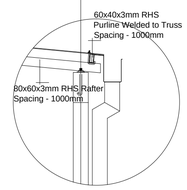
DETAIL 1 SC

1:20



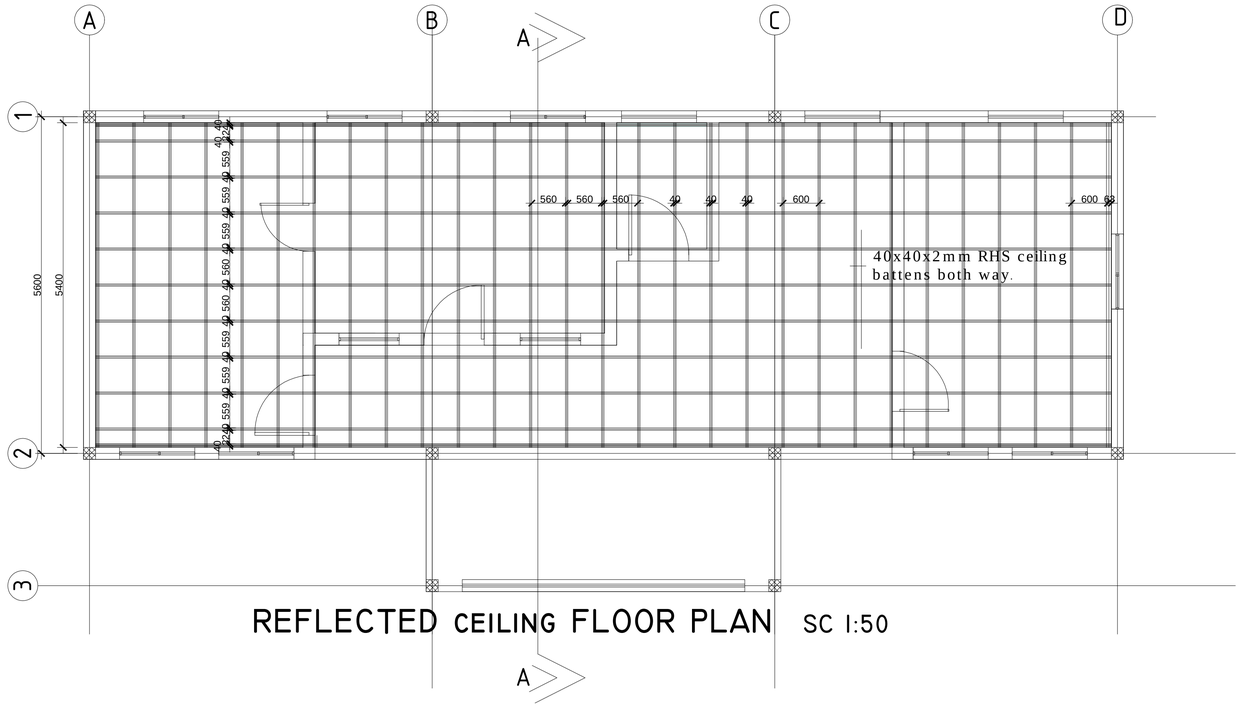
DETAIL 2 SC

1:20



DETAIL 3 SC

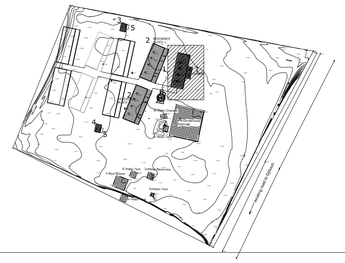
1:20



REFLECTED CEILING FLOOR PLAN SC 1:50

GENERAL NOTES:

10 22 2018	Original	On process
	Description:	Approved



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Partner:

United Nations Office on Drugs and Crime — UNODC United Nations Office on Drugs and Crime

Gendarmerie Nationale — Djibouti

Implemented By:

Countering Transnational Organized Crime and Trafficking in Djibouti

UNOPS , ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

Design:

Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

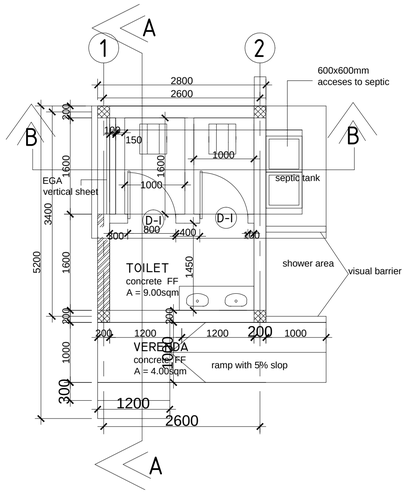
UNOPS ,ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia — UNOPS

(CLINIC)

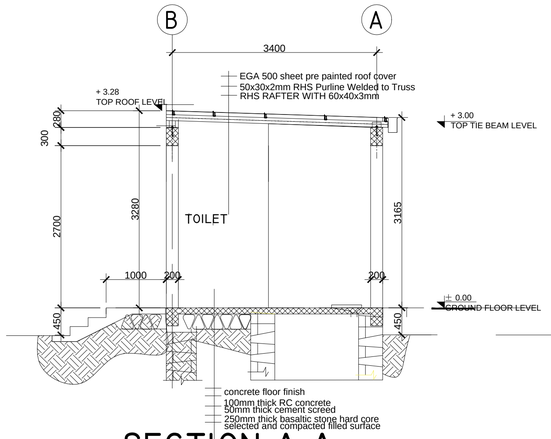
SECTION & REFLECTED CEILING PLAN

Discipline:	Dr. No:	Tot. No:	Rev No:
AR	07	11	R0

Checked:	Approved:	Size:	Scale:	Date:	Rev.:
	SM	A1	1 : 50	10 / 22 /2018	0

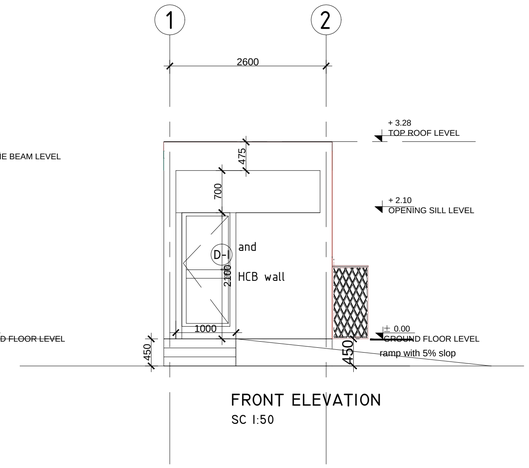


TOILET FLOOR PLAN SC I:50



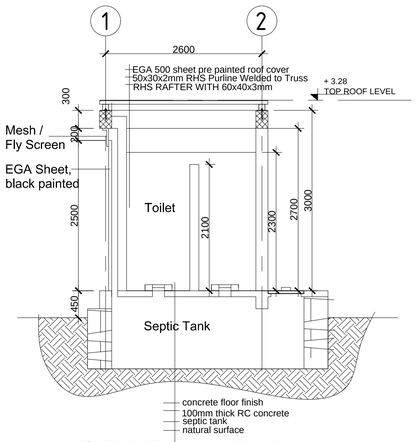
SECTION A-A

SC I:50



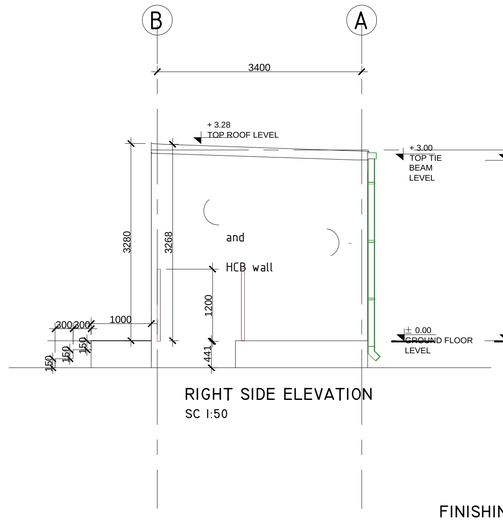
FRONT ELEVATION

SC I:50



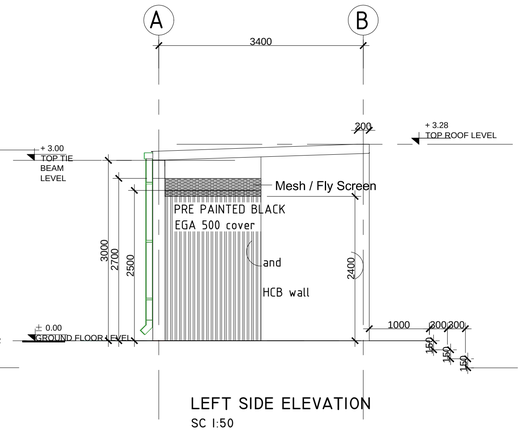
SECTION B-B

SC I:50



RIGHT SIDE ELEVATION

SC I:50



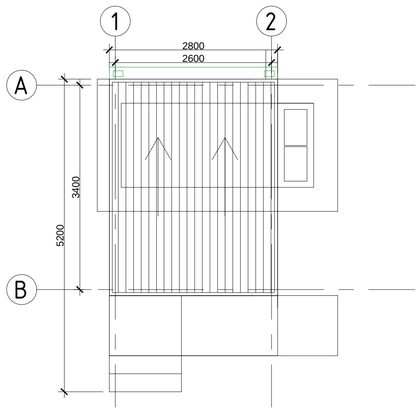
LEFT SIDE ELEVATION

SC I:50

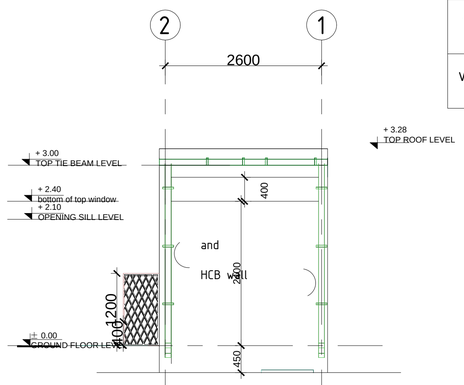
FINISHING SCHEDULE

SC I:50

ROOM	AREA	FLOOR FINISH	WALL FINISH	CEILING FINISH
TOILETS 2 UNITS	9 each	Concrete floor finish	Gypsum plastered and plastic emulsion painted HCB wall.	Open ceiling to roof structure
VERENDA	4	Concrete floor finish	plastered and painted HCB wall.	None



ROOF PLAN SC I:50



REAR ELEVATION

SC I:50

GENERAL NOTES:

Rev.:	Date:	Description:	
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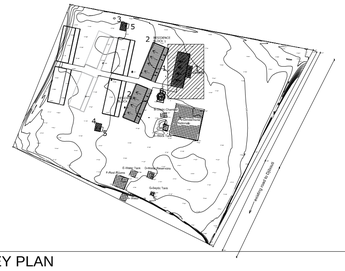
0	10 / 22 /2018	Original	On process
			Approved



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS, ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS, ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia — UNOPS

Drawing Title:

(TOILET)

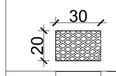
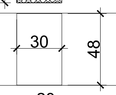
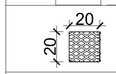
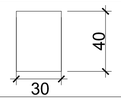
FLOOR PLAN, ELEVATIONS, SECTIONS & ROOF PLAN

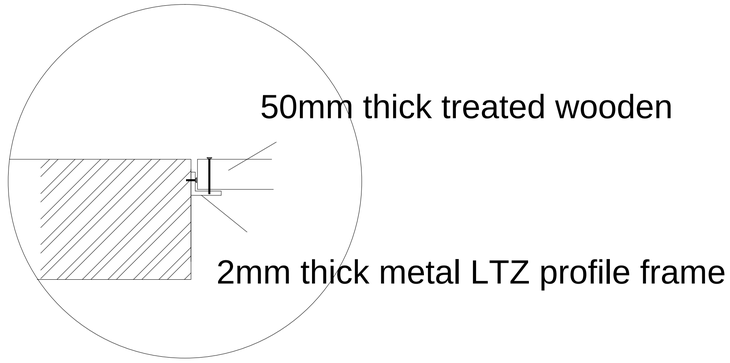
Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
ST	AR	08	11	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
ST	BM	SM	A1	1 : 50	10 / 22 /2018	0

RESIDENCE

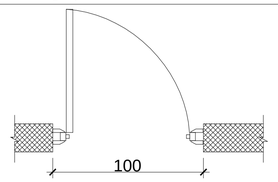
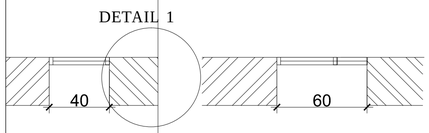
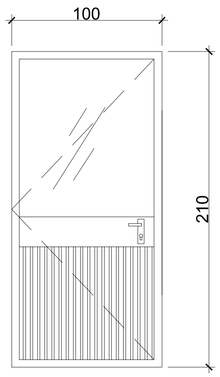
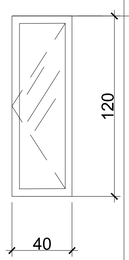
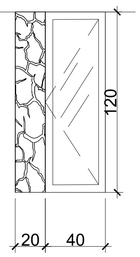
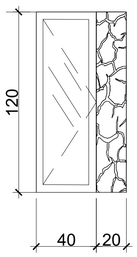
OPENING SCHEDULE FOR RESIDENCE BLOCK Sc 1:20

OPENING	NUMBER	
		Front side with mesh cover
		Front side
		Rear side with mesh cover
		Rear side

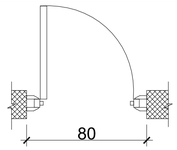
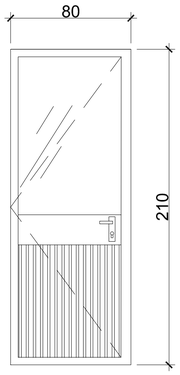


DETAIL 1 SC
1:20

WINDOWS AND DOOR SCHEDULE FOR THE RESIDENCE SC 1:20

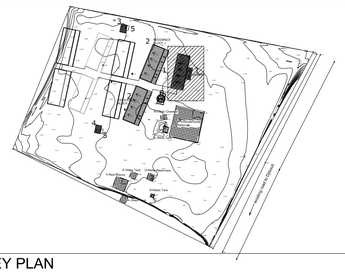
	D-1	W-1	W-2
PLAN VIEW			
ELEVATION VIEW			 
PIECES	3 pcs	3 pcs	12 pcs(6 pcs each)
OPENING DIRECTION	LEFT - Inward 0 Outward 1	LEFT - Inward 9, RIGHT - Inward 6,	LEFT - Inward 6, RIGHT - Inward 6,
DESCRIPTION	2.5mm thick metal LTZ profile frame with corrugated metal sheet bottom panel	2.5mm thick metal LTZ profile frame	2.5mm thick metal LTZ profile frame and 40mm thick treated soild wood perforated as shown on the detail
GLAZING	4mm thick froested and non reflective glass	5mm thick transluent and non reflective glass	5mm thick transluent and non reflective glass

TOILET

	D-1
PLAN VIEW	
ELEVATION VIEW	
PIECES	2 pcs
OPENING DIRECTION	LEFT - Inward 1 Outward 0
DESCRIPTION	2.5mm thick metal LTZ profile frame with corrugated metal sheet bottom panel
GLAZING	4mm thick froested and non reflective glass

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS, ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS, ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia — UNOPS

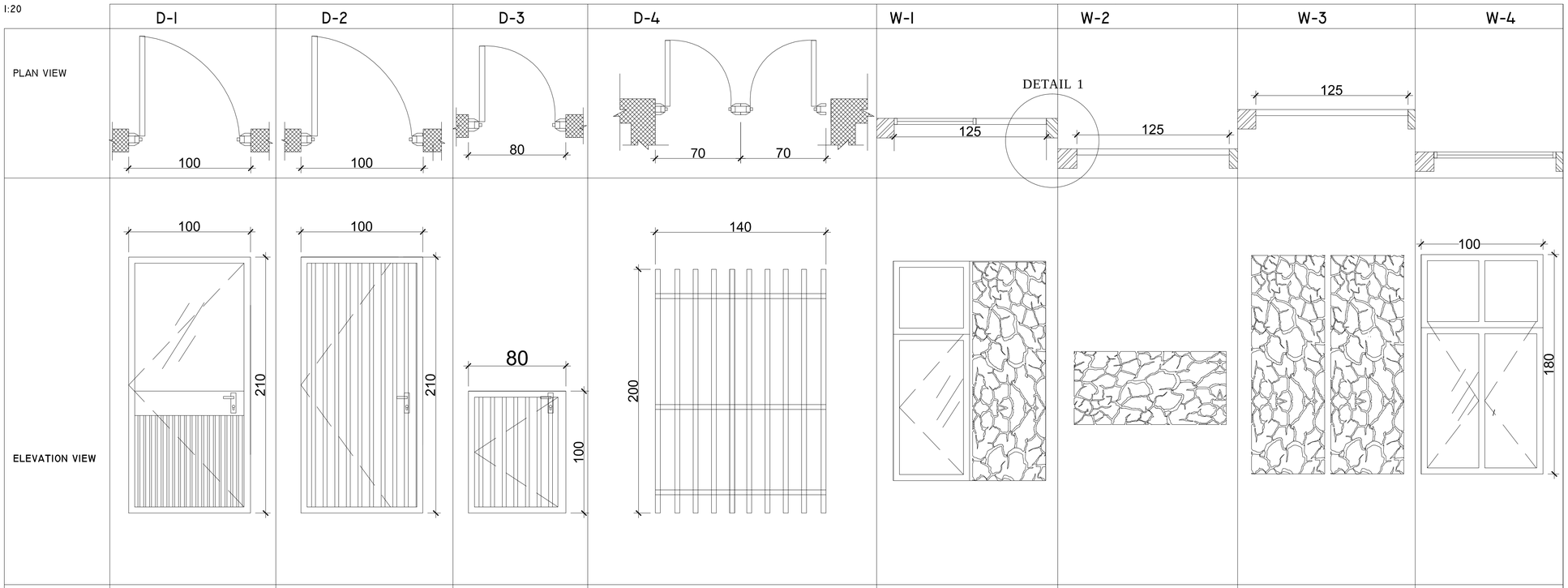
Drawing Title: WINDOW DOOR SCHEDULE

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
ST	AR	09	11	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
ST	BM	SM	A1	1 : 50	10 / 22 /2018	0

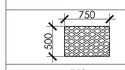
CLINIC

WINDOWS AND DOOR SCHEDULE FOR THE CLINIC SC 1:20



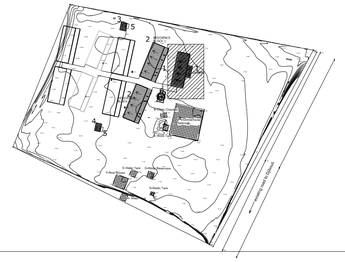
	D-1	D-2	D-3	D-4	W-1	W-2	W-3	W-4
PIECES	2 pcs	3 pcs	1 pcs	1 pcs	8 pcs	1 pcs	2 pcs	3 pcs
OPENING DIRECTION	LEFT - Inward 1, Outward 0 RIGHT - Inward 0, Outward 0	LEFT - Inward 1, Outward 0 RIGHT - Inward 0, Outward 0	LEFT - Inward 1, Outward 0 RIGHT - Inward 0, Outward 0	LEFT - Inward 0, Outward 1 RIGHT - Inward 0, Outward 1	LEFT - Inward 1, Outward 0 RIGHT - Inward 0, Outward 0	None	double pane inward opening	double pane inward opening
DESCRIPTION	2.5mm thick metal LTZ profile frame with corrugated metal sheet bottom panel	2.5mm thick metal LTZ profile frame with laminated MDF panel	2.5mm thick metal LTZ profile frame with laminated MDF panel	2.5mm thick metal 40820 RHS grill	50mm thick treated wooden profile frame with 5mm thick panel treated and perforated as patterned and with glass panel	50mm thick treated wooden profile frame with 5mm thick panel treated and perforated as patterned	50mm thick treated wooden profile frame with 5mm thick panel treated and perforated as patterned	2.5mm thick metal LTZ profile frame glass panel
GLAZING	4mm thick transluent and non reflective glass	None	None	None	4mm thick transluent and non reflective glass	None	None	4mm thick transluent and non reflective glass

OPENING SCHEDULE FOR THE CLINIC SC 1:20

OPENING	NUMBER	REMARK
		Front side with irone mesh
		Rear side with iron mesh

GENERAL NOTES:

10 22 2018	Original	On process
	Description:	Approved



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Partner:

United Nations Office on Drugs and Crime — UNODC United Nations Office on Drugs and Crime

Gendarmerie Nationale — Djibouti

Implemented By:

Countering Transnational Organized Crime and Trafficking in Djibouti

UNOPS , ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

Design:

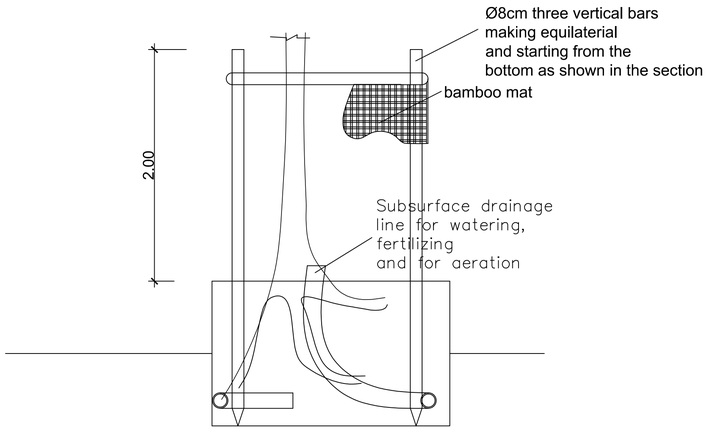
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

UNOPS ,ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia — UNOPS

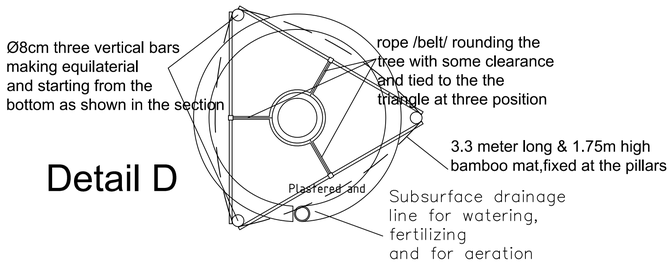
WINDOW DOOR SCHEDULE

Discipline:	Dr. No:	Tot. No:	Rev No:
AR	10	11	R0

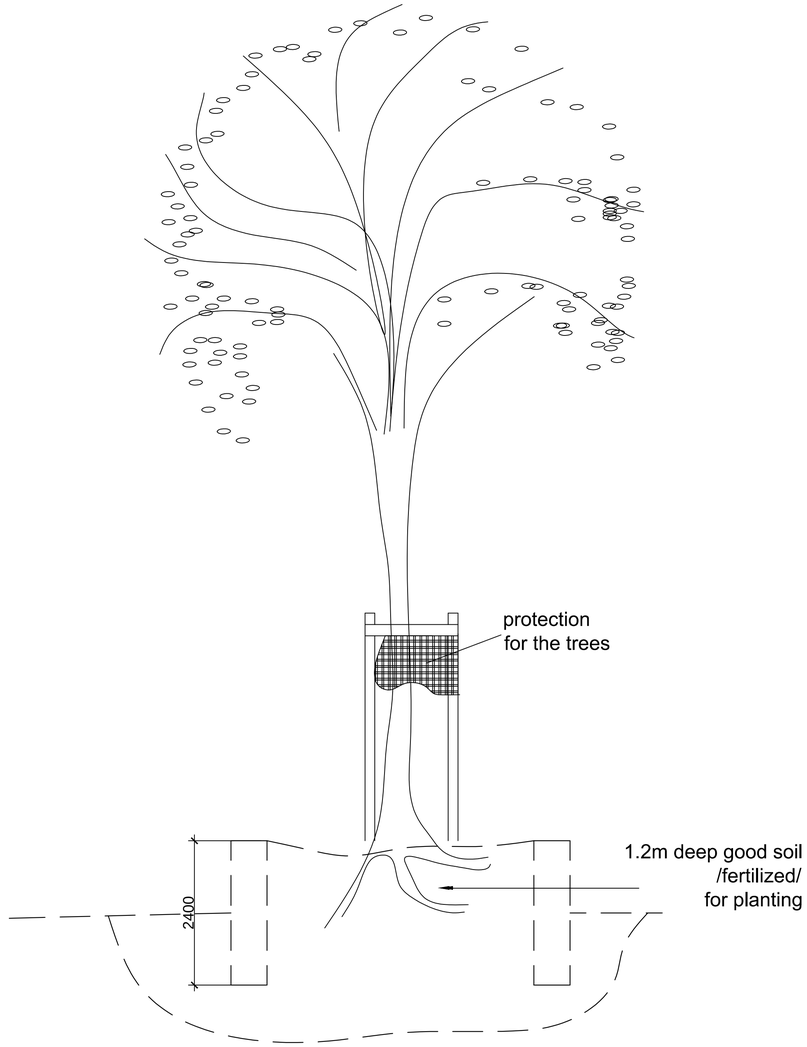
Checked:	Approved:	Size:	Scale:	Date:	Rev.:
	SM	A1	1 : 50	10 / 22 /2018	0

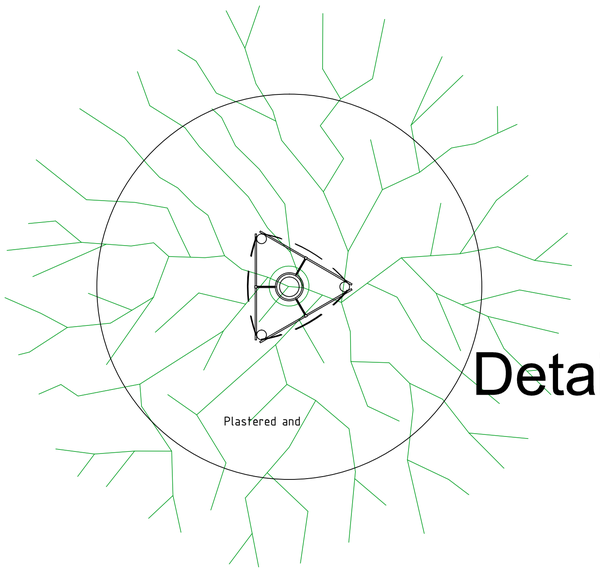


Plan



Detail D

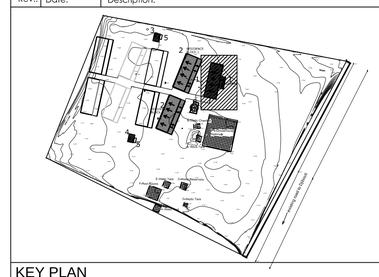




Detail D

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti	Gendarmerie Nationale Djibouti
Program:	Implemented By:
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office
Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia

Drawing Title:

PLANTING DETAIL

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
ST			AR	11	11	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
ST	BM	SM	A1	1 : 50	10 / 22 /2018	0

Structural Notes:

i) Foundation shall be placed on the rock layer at minimum depth of 500mm and achieve a minimum bearing capacity of 400 KN/m^2 . The top 200 mm loose soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.

ii) Foundation excavation to be approved by the Engineer prior to the construction of the foundation.

iii) Material Specification

a) Grade of Structural Concrete

- C-25 (Cube characteristics strength of 25 MPa) for columns and beams and foundations

b) Concrete reinforcement bar

- Grade 460 (Characteristics yield strength of fyk = 460 MPa)

c) Steel hollow section for roofing system , verandah column and plates

- Grade- C : Tensile Strength = 350 Mpa
  Yield Strength = 275 Mpa

d) Grade of Bolts

- Grade 4.6: Yield Strength = 240 Mpa
  Tensile Strength = 400 Mpa

iv) Durability Requirements

❖ Concrete Cover to Reinforcement

- Floor slabs :25mm;
- Beams: 38mm
- Columns; 38mm
- All substructure (below ground level): 50mm

❖ Protection of Steelwork

- Surface preparation by blast cleaning, pickling process or where approved by wirebrushing;
- Application of one coat of an approved pre -fabrication primer e.g. Zinc chromate;
- Application of one coat of approved primer after fabrication;
- Two coats of an approved paint system to be proposed by the Architect, one applied in the shop and the other applied on site after erection.

V) Welding Requirements

- Ensure that the welding procedure and welding properties meet or exceed the material properties of pieces of steel being joined.
- Connection between internal steel members shall be continuous fillet weld, full size and around the corner of the joining members.

Vi) Steel Truss manufacturing inspection, by visual examination, must cover most aspects: bending, groove preparation, alignment before and after welding, welding process, penetration, tolerances for circumference, straightness and circularity, - double sided welds, heat treatment, small diameter welds around the nozzles, detecting of undercut, excessive convexity, distortions, etc. Defects acceptance criteria shall be in accordance with ES ISO 5817:2014

Vii) Construction joint for concrete :

- Whenever concrete casting is discontinued, a wrinkled concrete joint, moistened just before the next concrete, which will have to be provided to ensure continuity.
- Construction joints shall get prior approval by the site supervisor.

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
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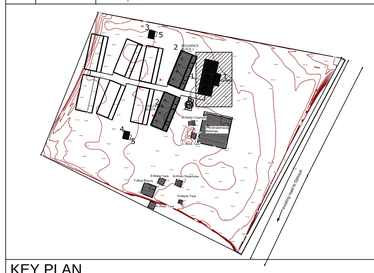

KEY PLAN

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Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	Implemented By:
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia

Drawing Title:

Structural Notes:

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			ST	01	09	R0
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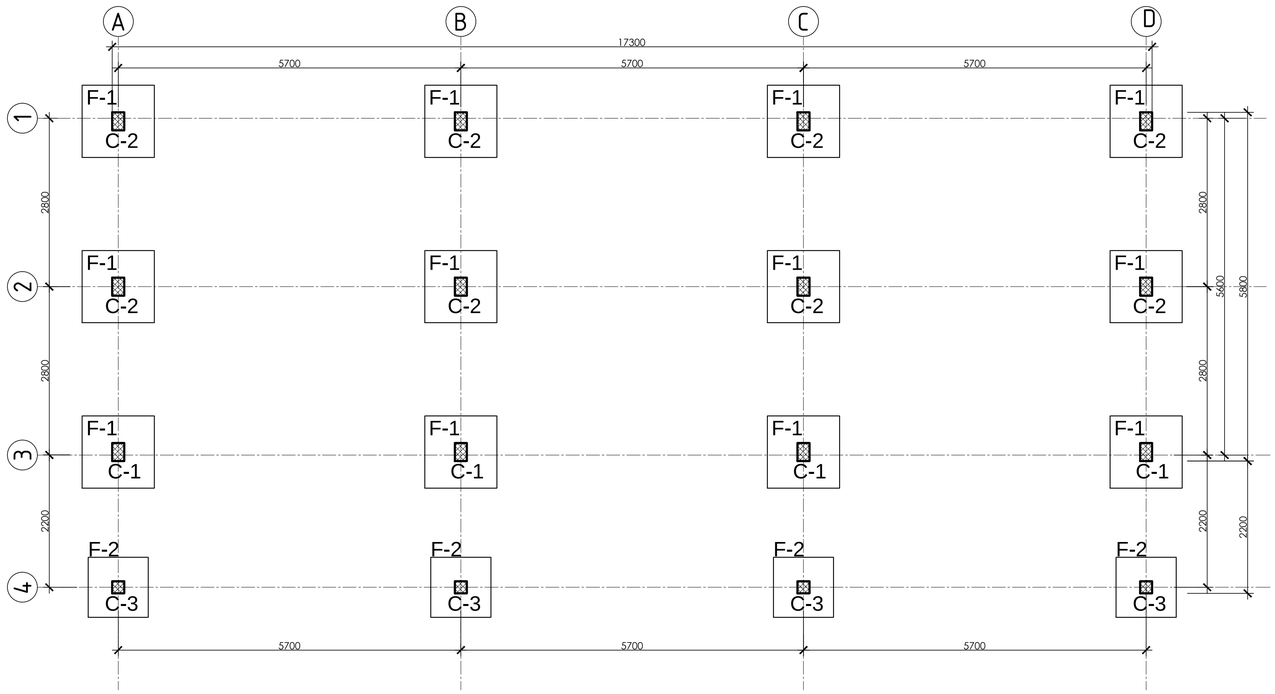
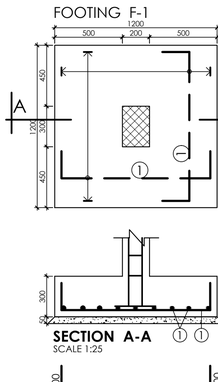
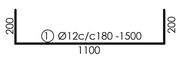


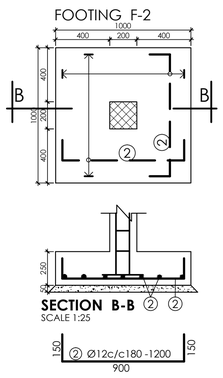
COLUMN & FOOTING LAYOUT (At -1.50 level)

Scale 1:50



SECTION A-A
SCALE 1:25





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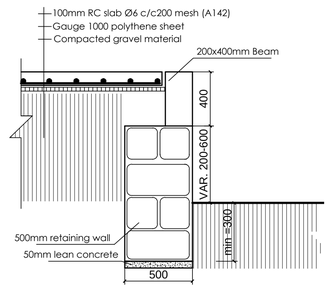
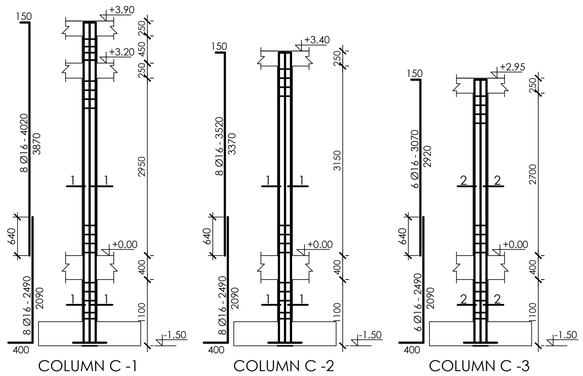


TYPICAL MASONRY WALL SECTION
SCALE 1:25



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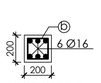

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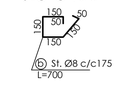

GENERAL NOTES:

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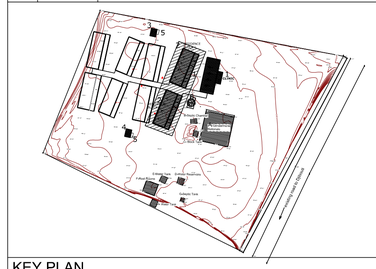

KEY PLAN

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Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti	Gendarmerie Nationale Djibouti
Program:	**Implemented By:**
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	**Design:**
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

(SHELTER)

FOOTING & COLUMN LAYOUT

FOOTING & COLUMN DETAILS

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			ST	02	09	R0
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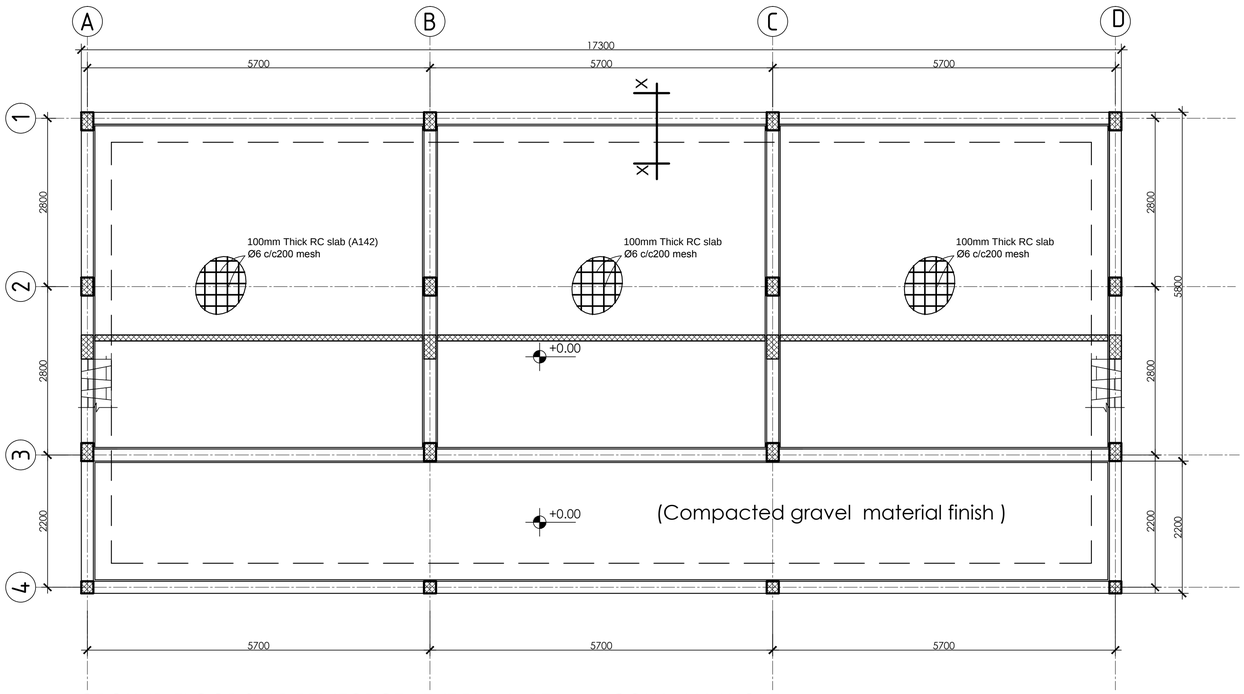
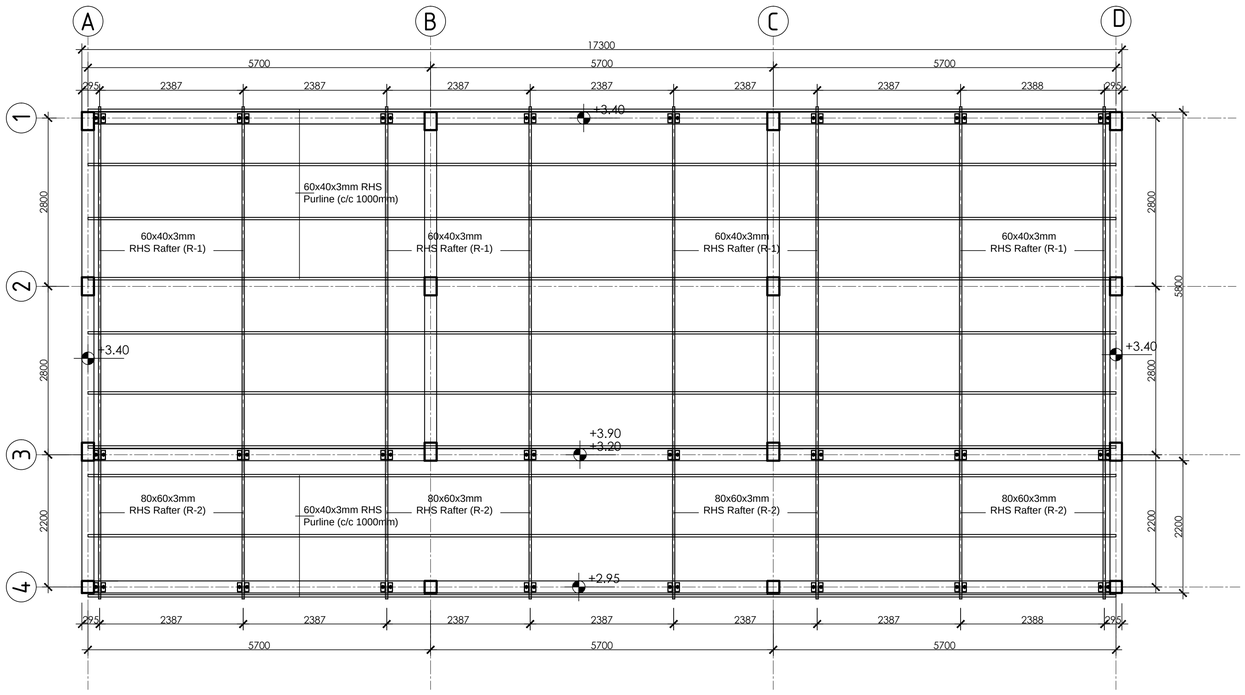


GROUND FLOOR SLAB REINFORCEMENT PLAN , BEAM & COLUMN LAYOUT

Scale 1:50

(At level +0.00 Slab Thickness 100mm)



ROOF BEAM & TRUSS LAYOUT

Scale 1:50

(At level +3.90 ,+3.40 ,+3.20 & +2.95)

GENERAL NOTES:

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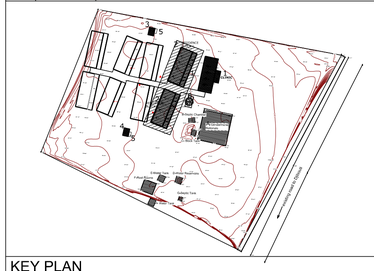

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United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
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Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	**Design:**
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

(SHELTER)

GROUND FLOOR SLAB REINFORCEMENT PLAN , ROOF BEAM & TRUSS LAYOUT

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			ST	03	09	R0
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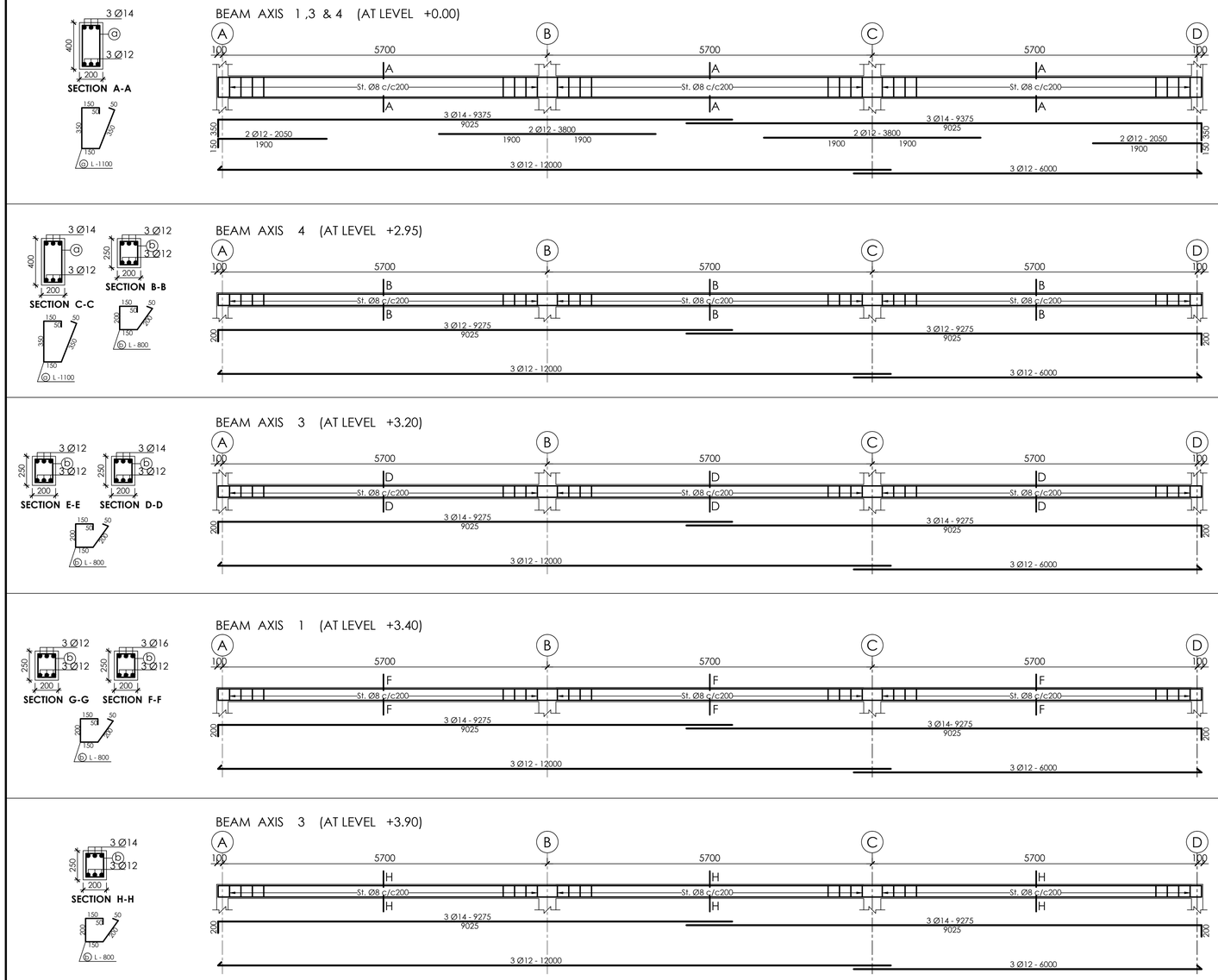

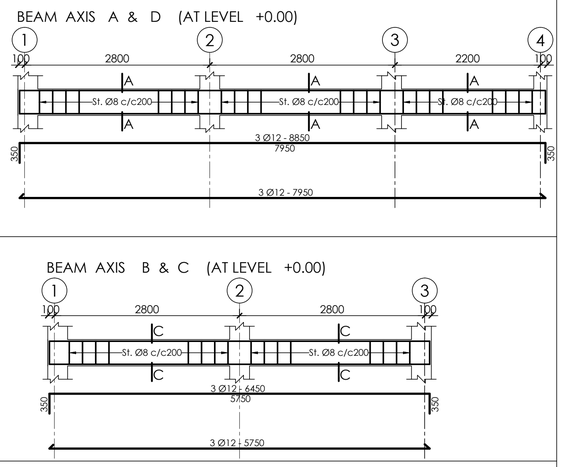

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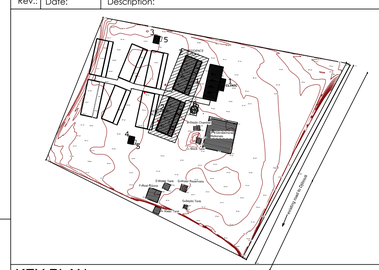

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Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
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Drawing Title:

(SHELTER)

BEAM DETAILS

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			ST	04	09	R0
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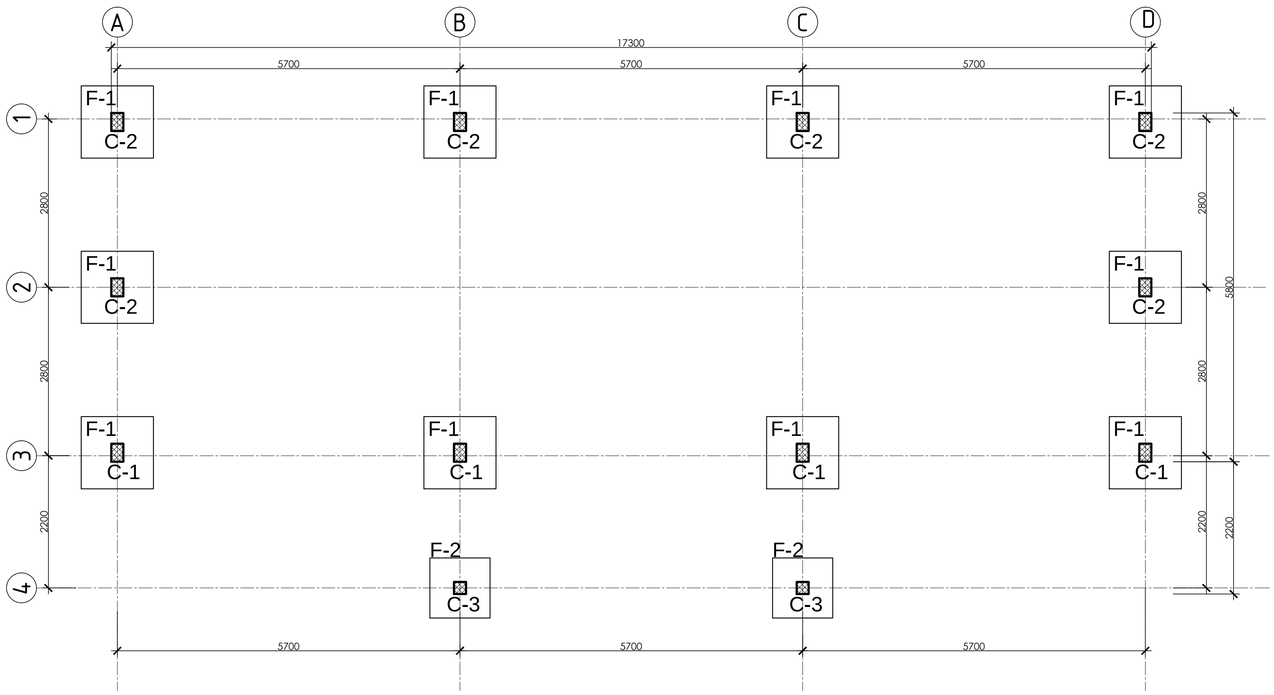
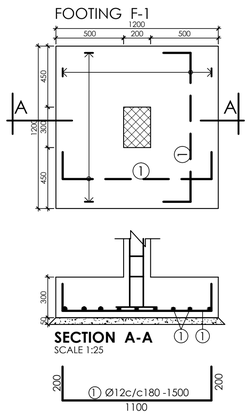
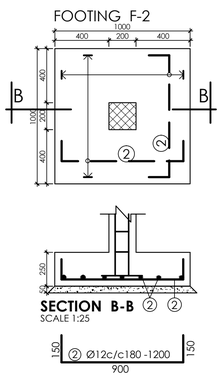
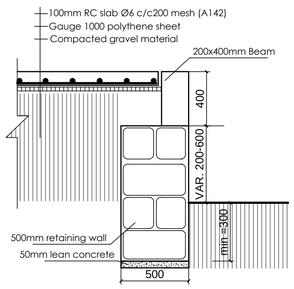


COLUMN & FOOTING LAYOUT (At -1.50 level)

Scale 1:50

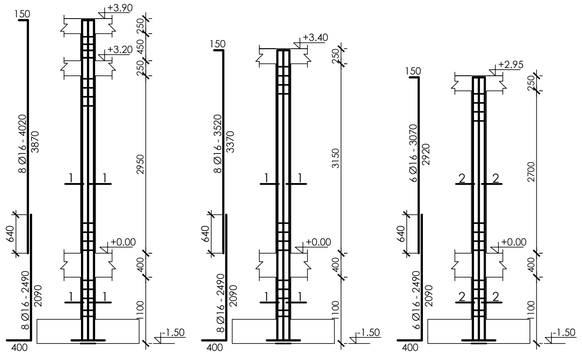


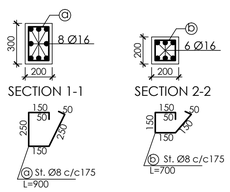




TYPICAL MASONRY WALL SECTION

SCALE 1:25





GENERAL NOTES:

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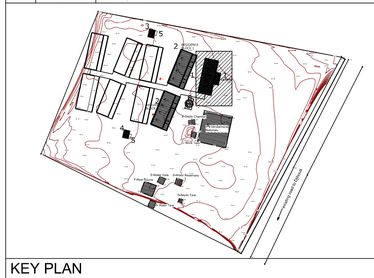

KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia — UNOPS

Drawing Title:

(CLINIC)

FOOTING & COLUMN LAYOUT

FOOTING & COLUMN DETAILS

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AE	ST	05	09	R0

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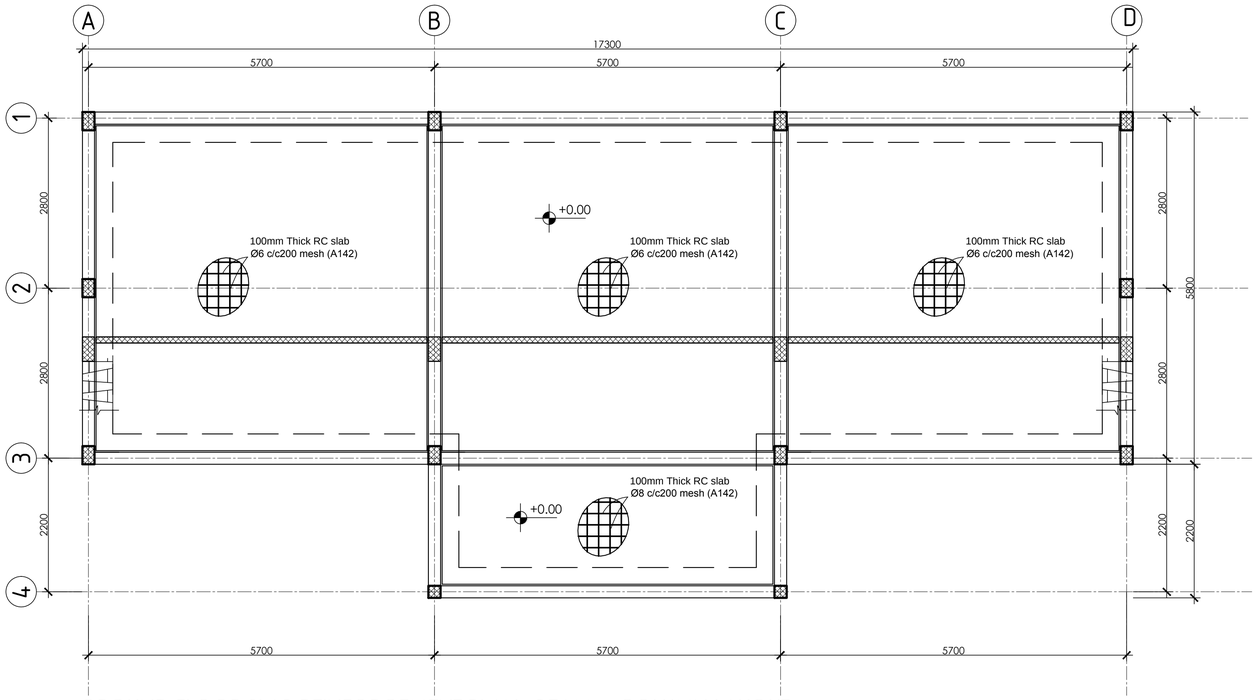
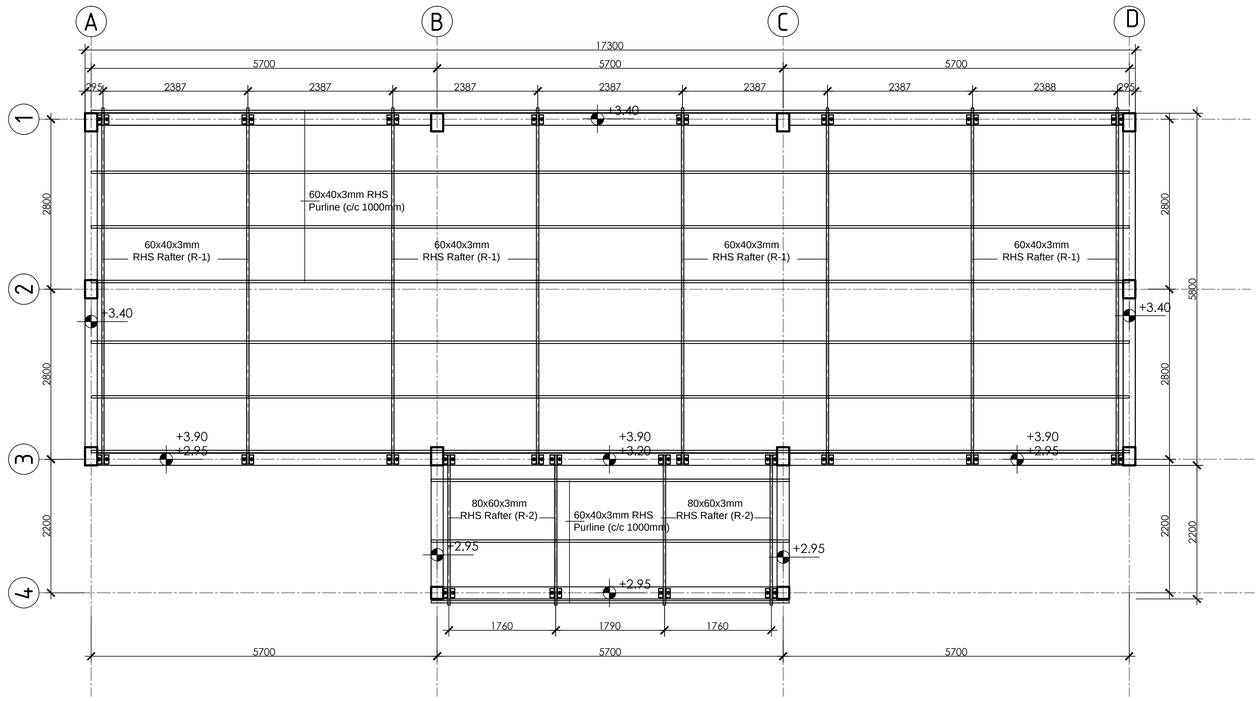


GROUND FLOOR SLAB REINFORCEMENT PLAN , BEAM & COLUMN LAYOUT

Scale 1:50

(At level +0.00 Slab Thickness 100mm)



ROOF BEAM & TRUSS LAYOUT

Scale 1:50

(At level +3.90 ,+3.40 ,+3.20 & +2.95)

GENERAL NOTES:

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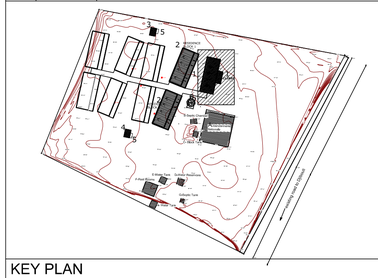

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Funded By:
United Nations Office on Drugs and Crime
Djibouti
UNODC United Nations Office on Drugs and Crime

Partner:
Gendarmerie Nationale
Djibouti

Program:
Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By:
UNOPS , ETHIOPIA OPERATIONAL HUB
Djibouti Office
UNOPS

Project Name:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design:
UNOPS ,ETHIOPIA OPERATIONAL HUB
Addis Ababa - Ethiopia
UNOPS

Drawing Title:

(CLINIC)

GROUND FLOOR SLAB REINFORCEMENT PLAN , ROOF BEAM & TRUSS LAYOUT

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			ST	06	09	R0
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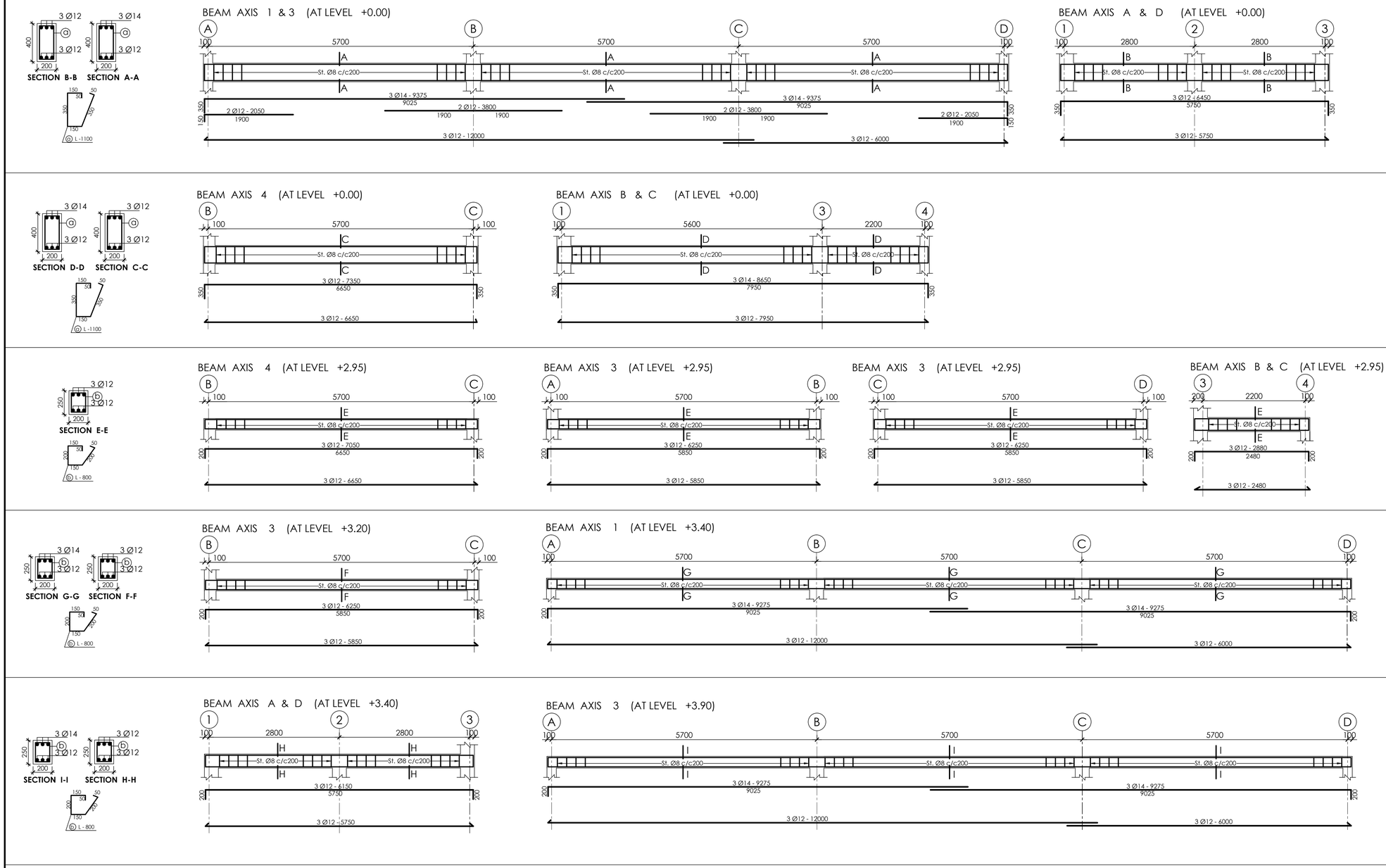

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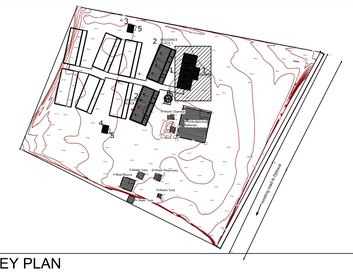

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Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB, Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

Drawing Title:

(CLINIC)

BEAM DETAILS

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AE	ST	07	09	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
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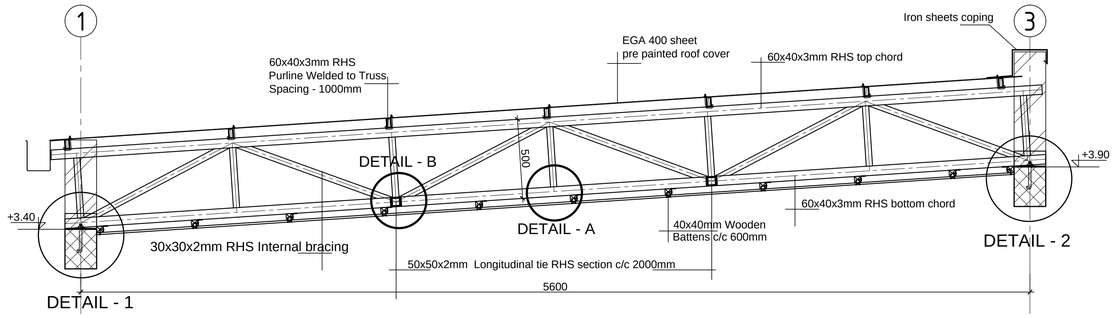
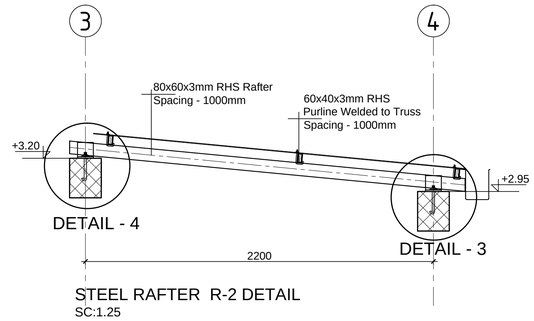
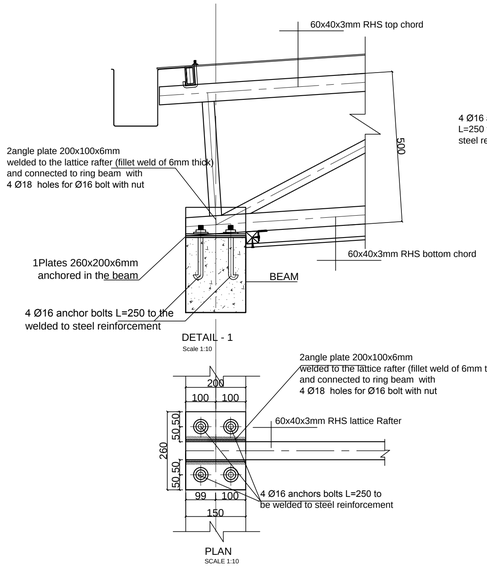


STEEL LATTICE RAFTER R-1 DETAIL
SC:1.25

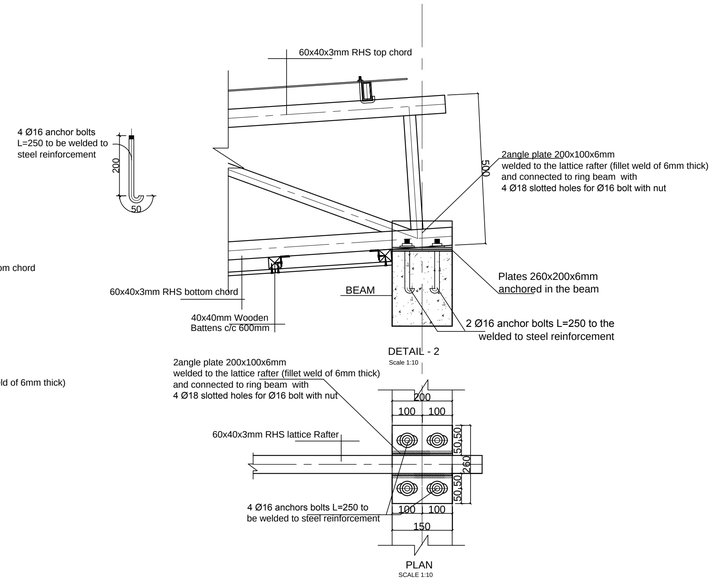
NOTE -Top & Bottom members 60x40x3mm RHS
-Diagonal members 30x30x2mm RHS
-Use 6mm thick fillet weld for all truss joints



STEEL RAFTER R-2 DETAIL
SC:1.25



DETAIL - 1
SCALE 1:10



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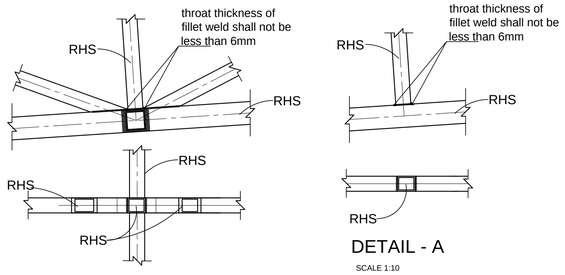
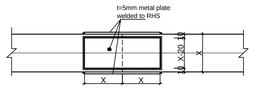
SCALE 1:10

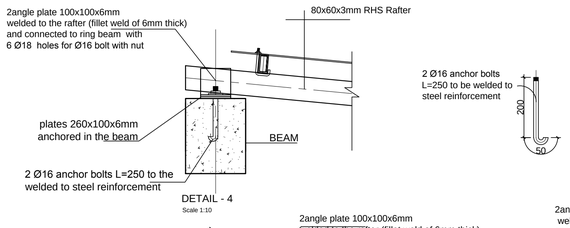


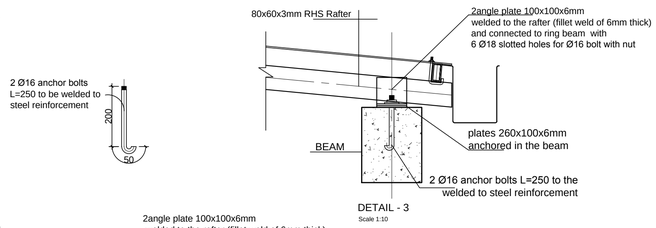
DETAIL - B
SCALE 1:10

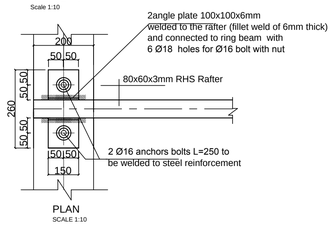
DETAIL - A
SCALE 1:10



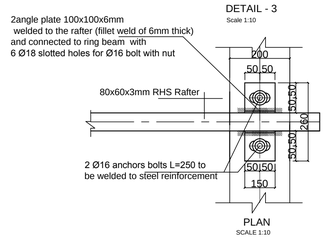
SPLICE DETAILS
SCALE 1:5







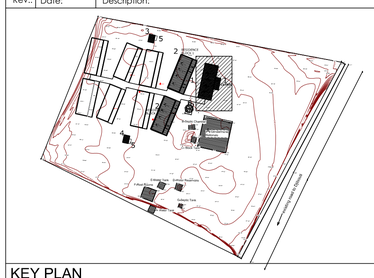
DETAIL - 4
SCALE 1:10



DETAIL - 3
SCALE 1:10

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC
Partner: Gendarmerie Nationale, Djibouti
Program: Countering Transnational Organized Crime and Trafficking in Djibouti
Implemented By: UNOPS, ETHIOPIA OPERATIONAL HUB — Djibouti Office
Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti
Design: UNOPS, ETHIOPIA OPERATIONAL HUB — Addis Ababa - Ethiopia

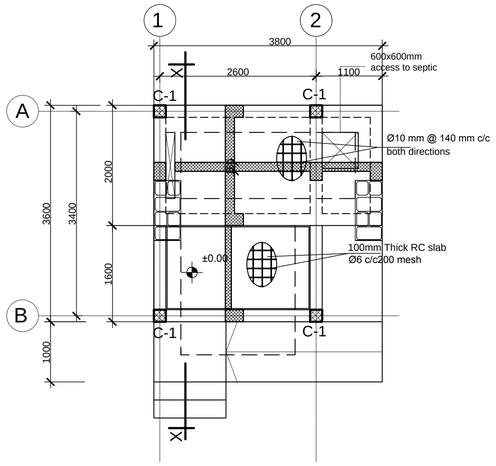
Drawing Title:

(CLINIC)

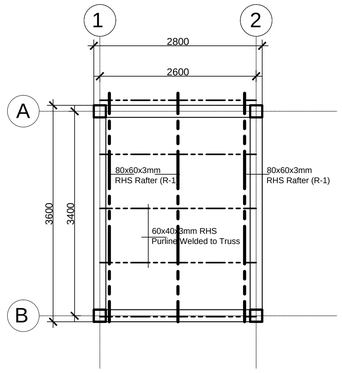
TRUSS DETAILS

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AE	ST	08	09	R0

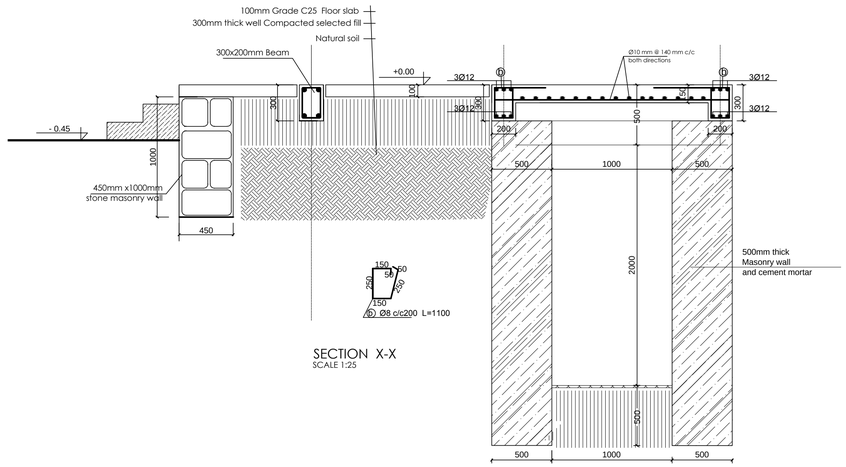
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	A1	1:25 ,1:10,1:5	10 / 22 /2018	0



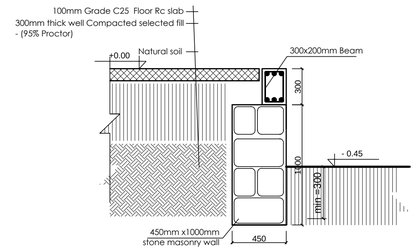
GROUND FLOOR SLAB REINFORCEMENT ,
BEAM AND COLUMN LAYOUT
(slab thickens =150 mm & 100mm)
SCALE 1:50



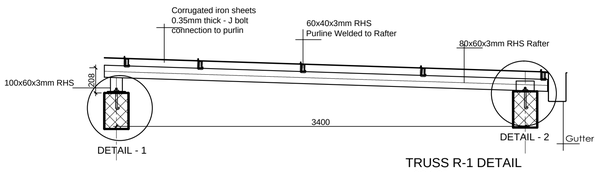
ROOF BEAM AND TRUSS LAYOUT
SCALE 1:50



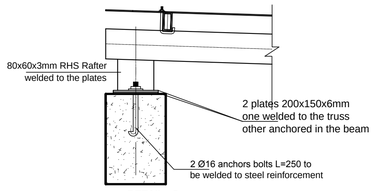
SECTION X-X
SCALE 1:25



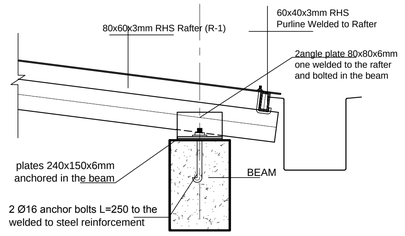
TYPICAL MASONRY WALL SECTION
SCALE 1:25



TRUSS R-1 DETAIL
SC:1.25

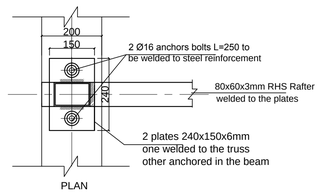


DETAIL - 2
Scale 1:10

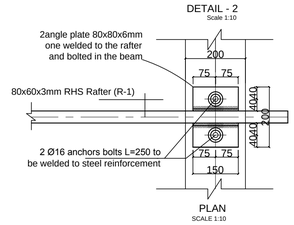


DETAIL - 2
Scale 1:10

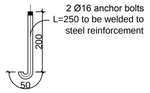
Access to Septic Cover Detail

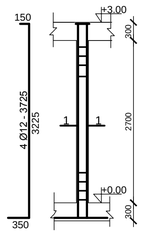


PLAN
DETAIL - 1
SCALE 1:10

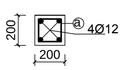


PLAN
SCALE 1:10
DETAIL - 2
SCALE 1:10

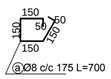


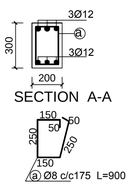


COLUMN C-1
SCALE 1:50



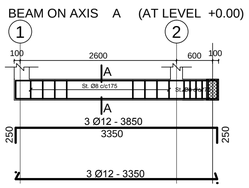
SECTION 1-1
SCALE 1:25



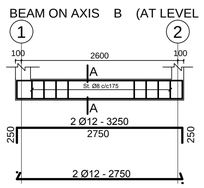


SECTION A-A

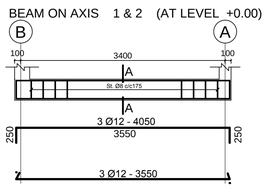
BEAM ON AXIS A (AT LEVEL +0.00)



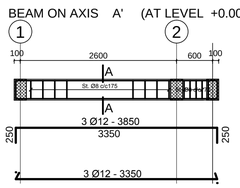
BEAM ON AXIS B (AT LEVEL +0.00)

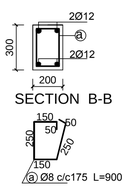


BEAM ON AXIS 1 & 2 (AT LEVEL +0.00)



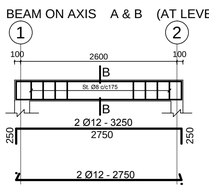
BEAM ON AXIS A' (AT LEVEL +0.00)



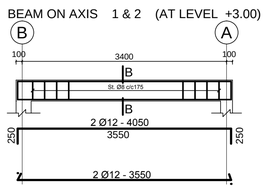


SECTION B-B

BEAM ON AXIS A & B (AT LEVEL +3.00)



BEAM ON AXIS 1 & 2 (AT LEVEL +3.00)



GENERAL NOTES:

Rev.:	Date:	Description:	
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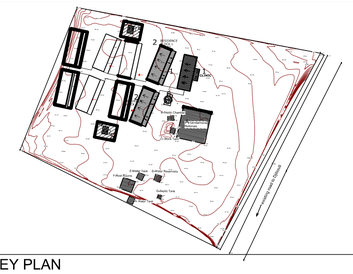
0	10 / 22 /2018	Original	On process
			Approved



KEY PLAN

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Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	Implemented By:
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

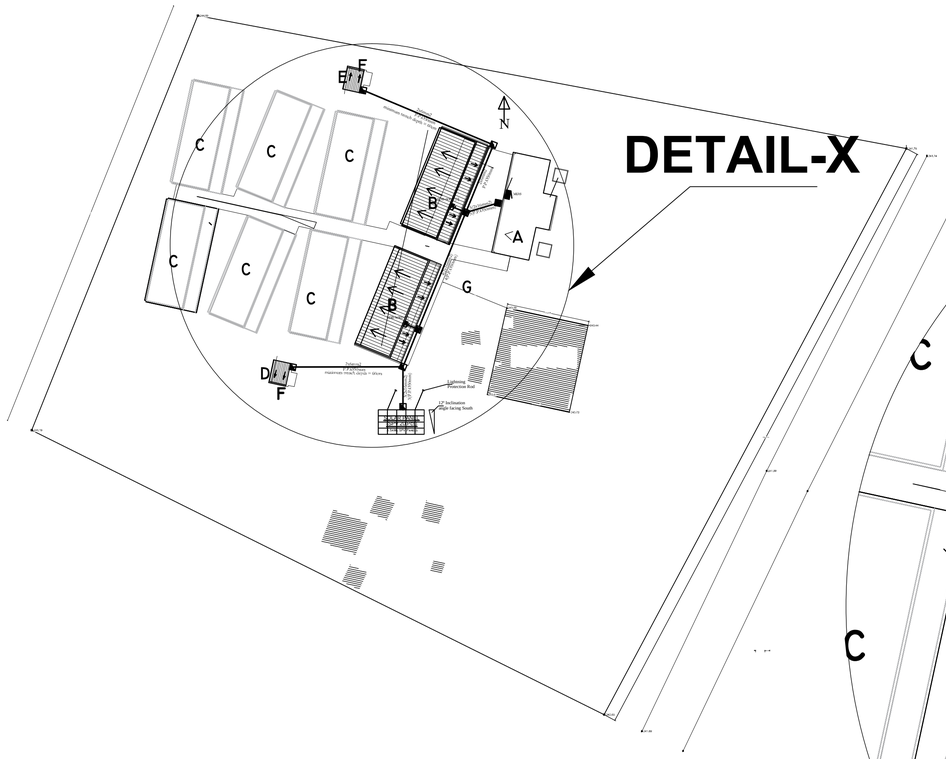
Drawing Title:

(PIT LATRINE)

TOILET DETAILS

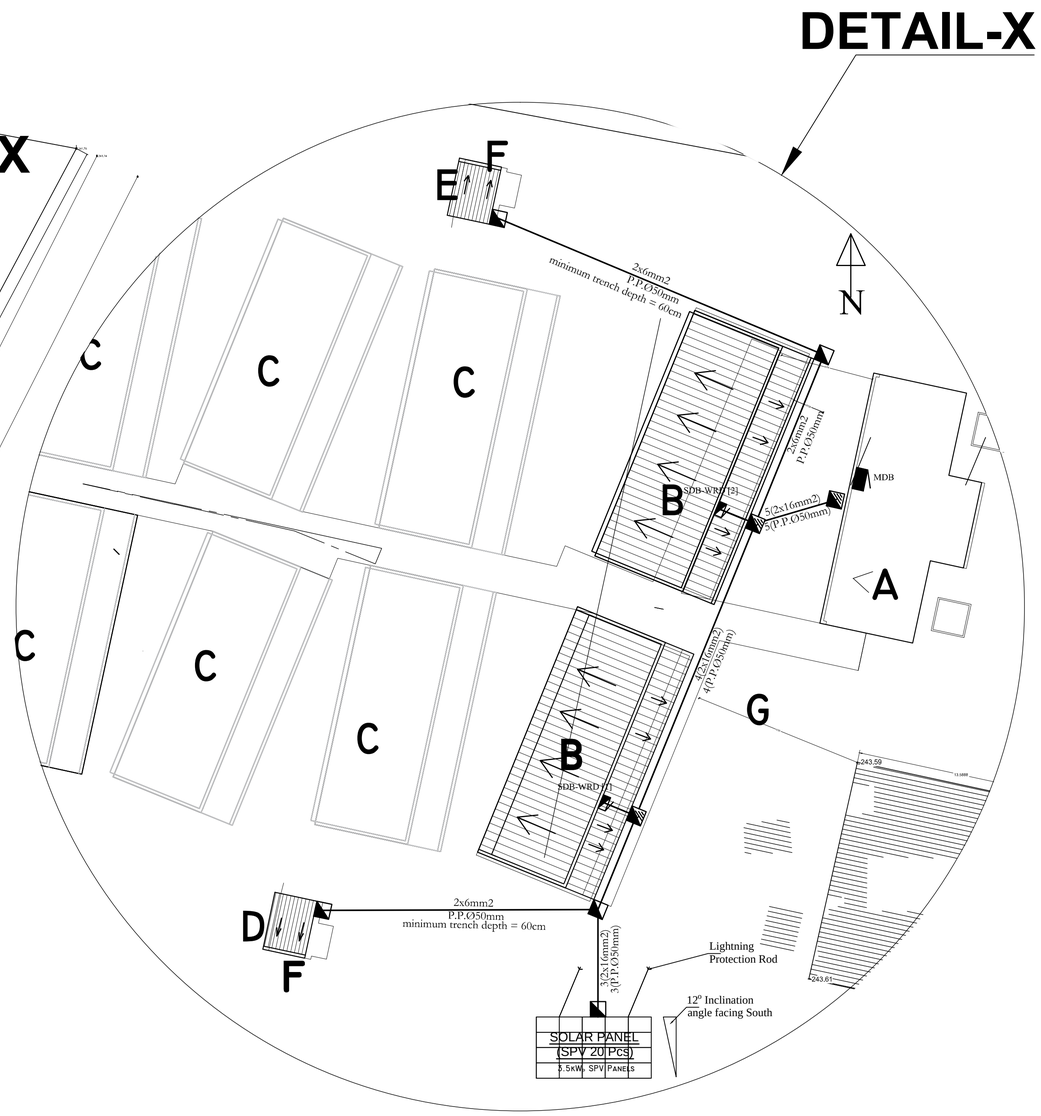
Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AE	ST	09	09	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	A1	1:50 ,1:25	10 / 22 /2018	0



SITE PLAN DETAIL-X

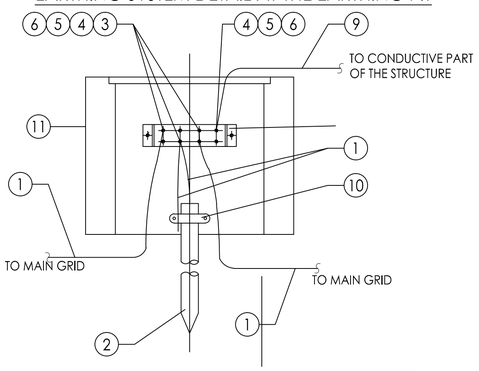
SCALE 1:500



SITE PLAN

SCALE 1:200

EARTHING SYSTEM DETAIL AT THE EARTHING PIT



TYPE	DESCRIPTION
1	EARTH STRANDED COPPER CONDUCTOR = 1 x 16mmsq.
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. 260 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 500MM WITH CONCRETE COVER HAVING LIFTING LUG

Light Fitting Schedule

Item No	Mounting	Lamp #	Lamp [W]	Lamp Type
1	Ceiling/Pendant	1	12	LED 24Vdc lamp to be fixed over E27 base holder/socket, Luminous flux =693 lm, color = cold white, low thermal output with no UV, shock and vibration proof, suitable for indoor and outdoor, instant full output, no delay
3	Wall mounted	1	12	LED 24Vdc flood light, with wall mounting bracket and fixing accessories, IP65, cool white 6000-6500K color temperature, minimum of 900 lm output, maintenance free, long life expectancy light fitting.

GENERAL NOTES:

NOTE:
Minimum Trench Excavation depth shall be 60cm from Natural Ground Level.

LEGEND

	16A Single Socket outlet with 3x2.5mm² fixed over 40cm above F.F.L.
1	Ceiling mounted 1x12W LED 24V_{dc}
3	Wall mounted 1x12W LED 24V_{dc}
P.P.	UPVC Pipe
WP	Water Proof
	10A Single-Pole Switch
	10A 2 Gang Double Switch
	10A Triple Switch
	Ceiling mounted Sweep FAN
	FAN Speed Control
	Distribution Board (Flush mounted)
	Earthing Rod in Manhole
	Manhole

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved

KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB — Djibouti Office — UNOPS

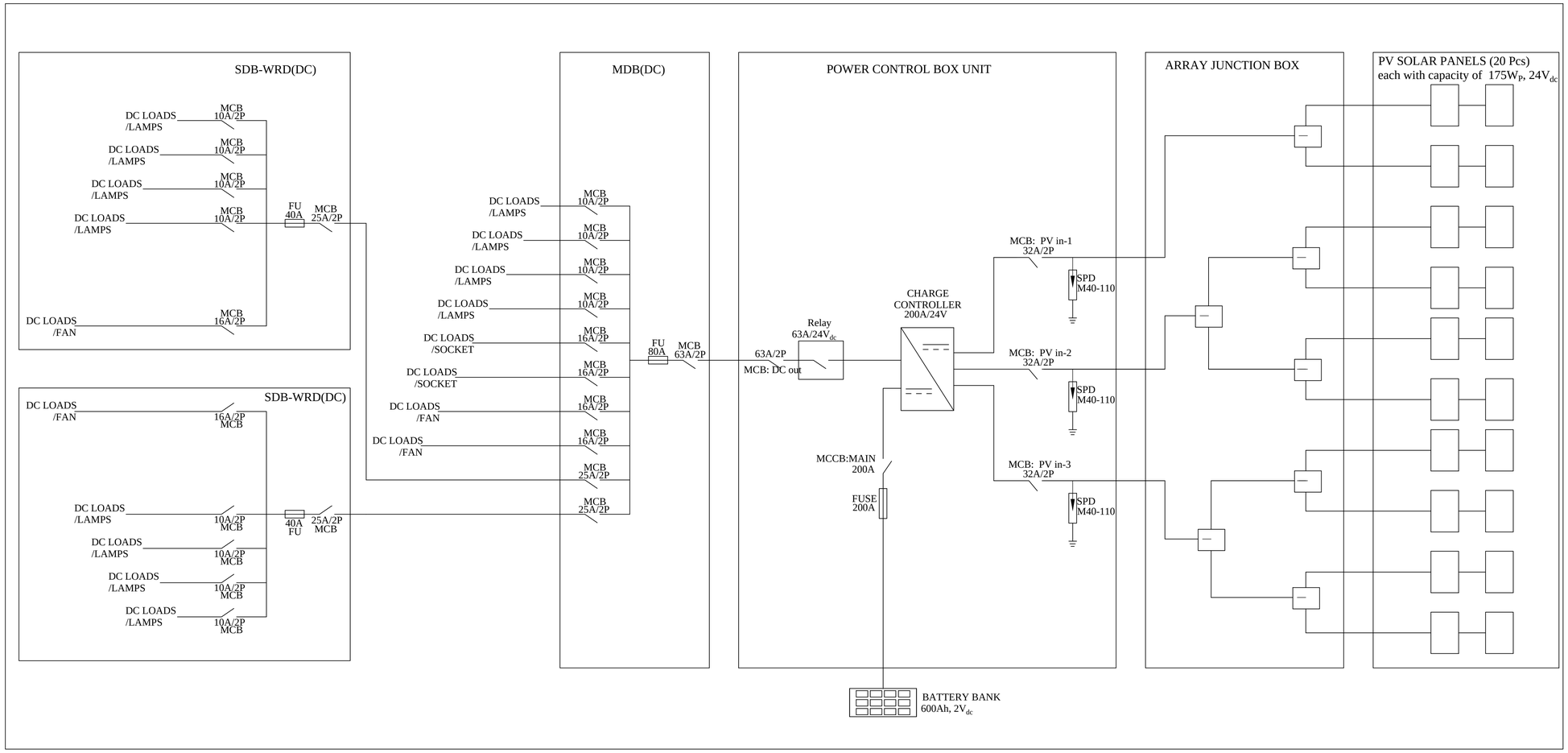
Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

Drawing Title: ELECTRICAL INSTALLATION PLAN
SITE PLAN

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AD	EL	01	06	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
BY	BM	SM	A1	1:200 & 1:500	10 / 22 /2018	0



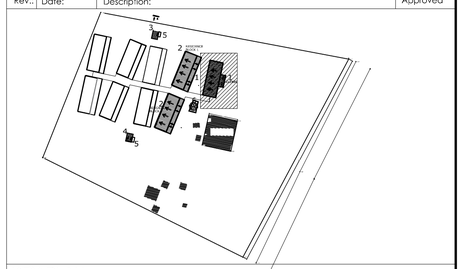
3.5kW$_P$ SPV SOLAR SYSTEM CONNECTION SCHEMATIC DIAGRAM

GENERAL NOTES:

LEGEND

	16A Single Socket outlet with 3x2.5mm^2 fixed over 40cm above F.F.L.
1	Ceiling mounted 1x12W LED 24V$_{dc}$
3	Wall mounted 1x12W LED 24V$_{dc}$
P.P.	UPVC Pipe
WP	Water Proof
	10A Single-Pole Switch
	10A 2 Gang Double Switch
	10A Triple Switch
	Ceiling mounted Sweep FAN
	FAN Speed Control
	Distribution Board (Flush mounted)
	Earthing Rod in Manhole
	Manhole

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS, ETHIOPIA OPERATIONAL HUB, Djibouti Office — UNOPS

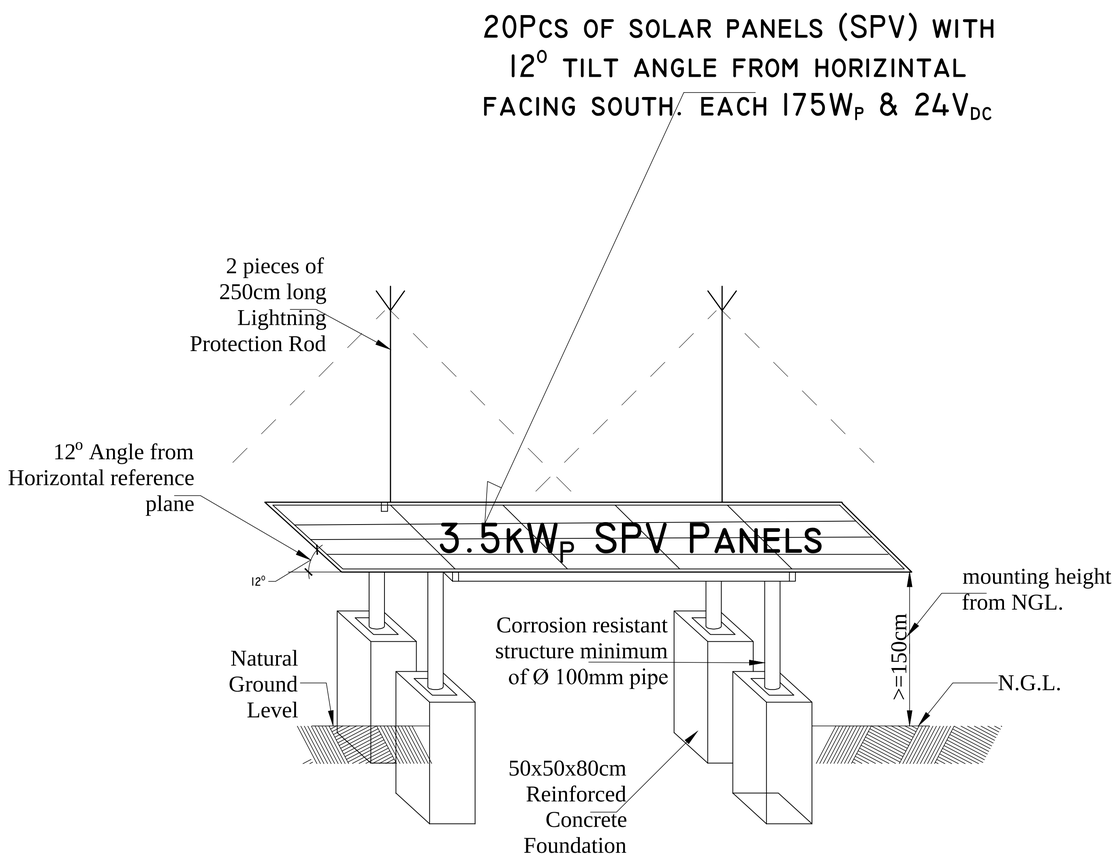
Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS, ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

Drawing Title:

ELECTRICAL INSTALLATION PLAN
SOLAR SYSTEM CONNECTION
SCHEMATIC DIAGRAM

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AD			EL	02	06	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
BY	BM	SM	A1	NTS	10 / 22 /2018	0

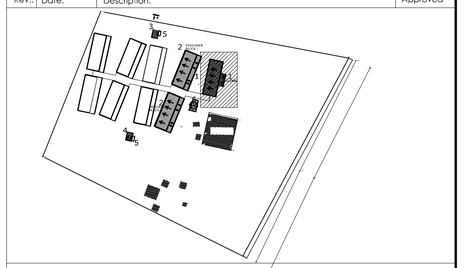


* The Contractor shall submit shop drawing and get prior approval before installation. The design calculation shall considering specified wind speed and submit calculation of wind load calculation.
* The mounting structure steel shall be as per latest IS 2062:1992 and galvanization of the mounting structure shall be in compliance of latest IS 4759.
* The Stand shall resist wind speed of 150km/hr. Structure shall be able to withstand maximum wind speed of 150km/hr or wind speed of respective wind zone.
* Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts & bolts. Necessary protection towards rusting need to be provided either by coating or anodization.
* Aluminium frames shall be avoided for installation in coastal area.
* The fasteners used shall be made up of stainless steel. the structures shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels.

GENERAL NOTES:

NOTE:
SOLAR PHOTOVOLTAIC PANELS SHALL BE INSTALLED ALONG WEST EAST ALIGNMENT WITH 12 DEGREE TILT FROM HORIZONTAL DATUM LINE AND FACING SOUTH AS SPECIFIED AND AS SHOWN IN THE DRAWING.

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB, Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

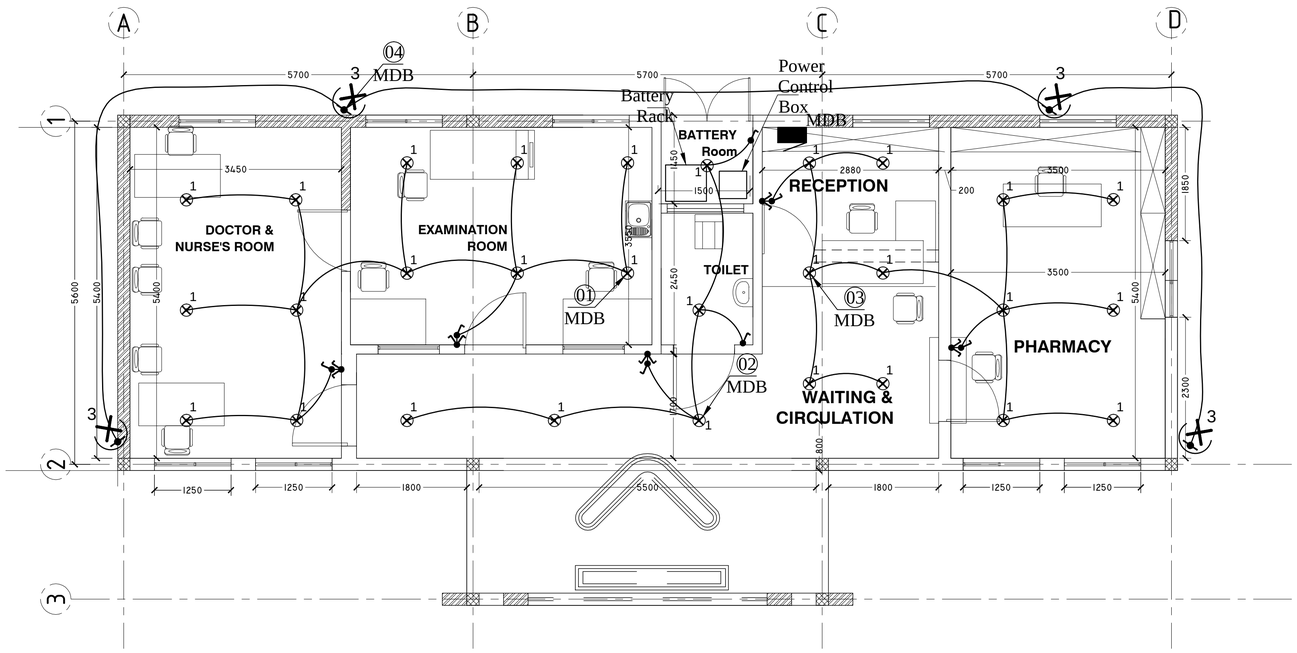
Design: UNOPS ,ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

Drawing Title:

ELECTRICAL INSTALLATION PLAN

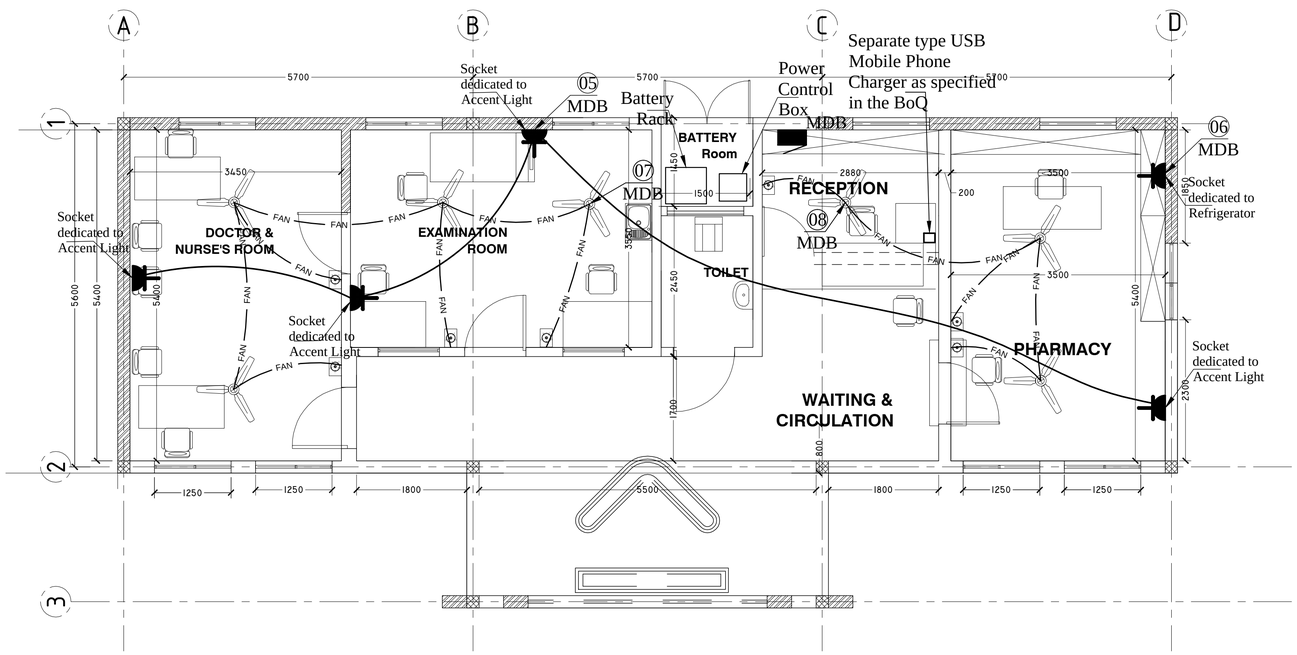
SPV 3D VIEW AND NOTE

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AD			EL	03	06	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
BY	BM	SM	A1	NTS	10 / 22 /2018	0



CLINIC FLOOR PLAN SC 1:50

(Lighting Layout)



CLINIC FLOOR PLAN SC 1:50

(Socket and Ceiling FAN Layout)

Distribution Board Schedule											
Panel Name: MDB											
Service Voltage: 24Vdc, (2-poles), 2 wire , DC			Bus Type: TPN + PE				Mounting: Flush				
			Bus Rating: 100A/10KA				IP Rating: IP = 44				
			Enclosure: Steel Sheet								
Circuit #	Load Description	Load (KW)	Circuit Breaker Rating (A)	# of Poles	Wire Crossection (mm^2)	Conduit Ø (mm)	Phase R	Phase S	Phase T	Remark	
01	Lighting	0.14	10	2	2x2.5	16	•				
02	Lighting	0.08	10	2	2x2.5	16	•				
03	Lighting	0.14	10	2	2x2.5	16	•				
04	Lighting	0.05	10	2	2x2.5	16	•			TS	
05	Socket outlet	0.05	16	2	3x2.5	16	•				
06	Socket outlet	0.05	16	2	3x2.5	16	•				
07	Power outlet to FAN	0.05	16	2	3x2.5	16	•				
08	Power outlet to FAN	0.05	16	2	3x2.5	16	•				
09	Power outlet to SDB-WRD	0.49	25	2	2x16	50	•				
10	Power outlet to SDB-WRD	0.49	25	2	2x16	50	•				
	Reserve Space (25%)										

Main Switch	63A/2P, MCB with 30mA	KW Connected (P_{Tot})	1.59
Feeder Cable	2x25mm^2	Diversity	0.90
P.V.C. Conduit	Ø80mm	KW Demand (P_{Max})	1.43
Power Source	MDB	Current (A)	59.58

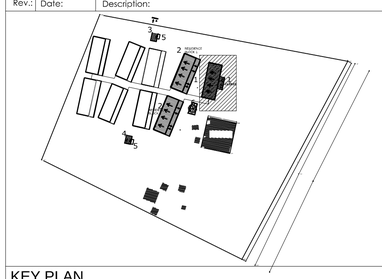
NOTE:
Lighting for this Block is calculated to be 100 lux on the working plane but accent light is provided in a socket for the Examination rooms, Reception and Pharmacy to increase illumination level at working plane.

GENERAL NOTES:

LEGEND

	16A Single Socket outlet with 3x2.5mm^2 fixed over 40cm above F.F.L.
1	Ceiling mounted 1x12W LED $24V_{dc}$
3	Wall mounted 1x12W LED $24V_{dc}$
P.P.	UPVC Pipe
WP	Water Proof
	10A Single-Pole Switch
	10A 2 Gang Double Switch
	10A Triple Switch
	Ceiling mounted Sweep FAN
	FAN Speed Control
	Distribution Board (Flush mounted)
	Earthing Rod in Manhole
	Manhole

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



KEY PLAN

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Funded By: United Nations Office on Drugs and Crime, Djibouti — UNODC United Nations Office on Drugs and Crime

Partner: Gendarmerie Nationale, Djibouti

Program: Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By: UNOPS , ETHIOPIA OPERATIONAL HUB, Djibouti Office — UNOPS

Project Name: Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design: UNOPS ,ETHIOPIA OPERATIONAL HUB, Addis Ababa - Ethiopia — UNOPS

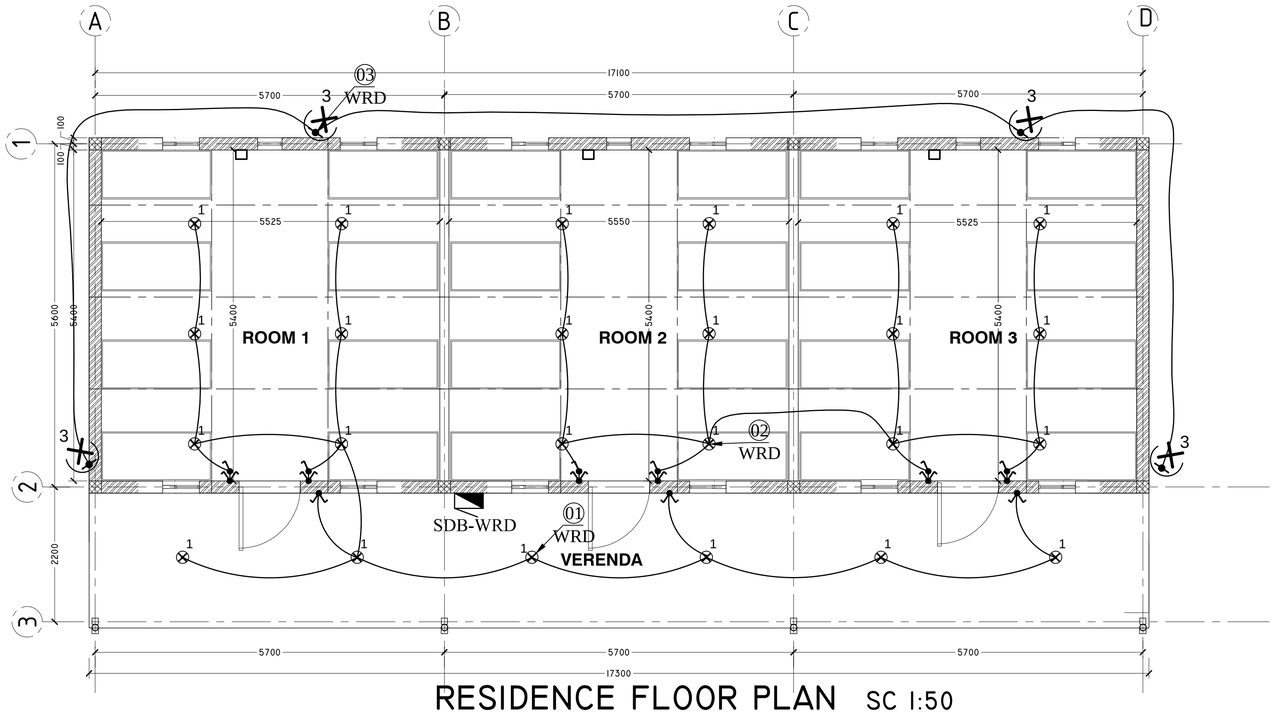
Drawing Title:

ELECTRICAL INSTALLATION PLAN

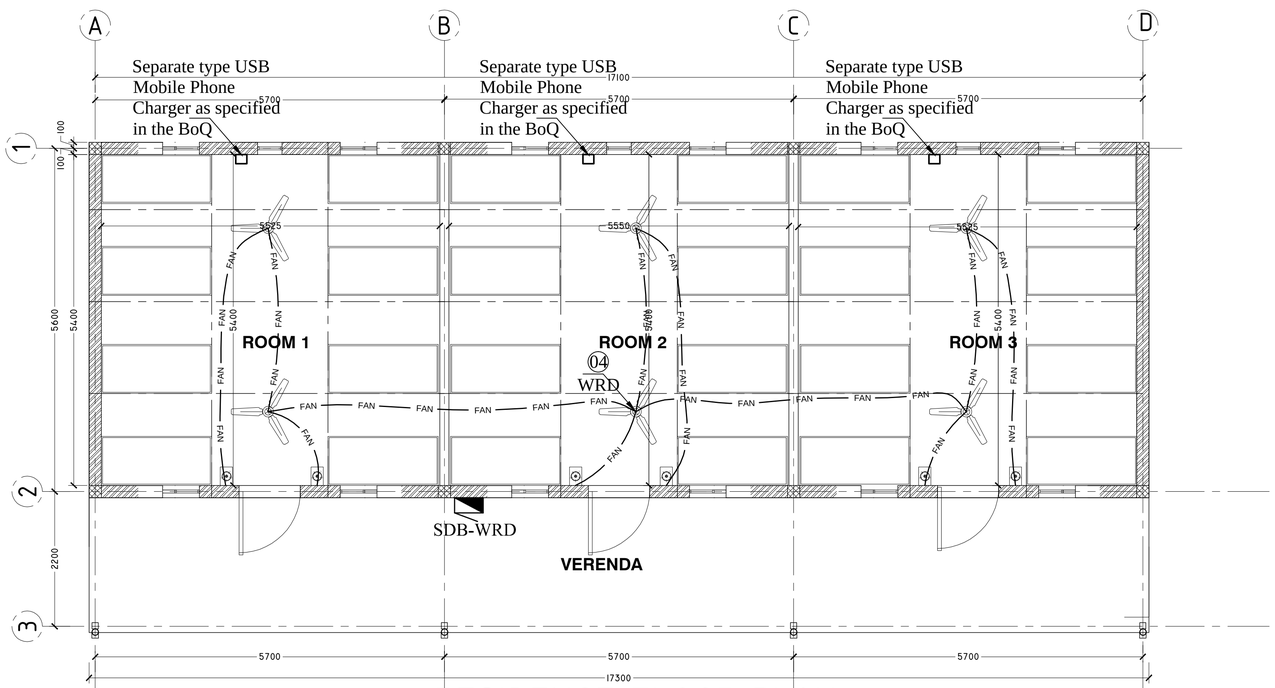
CLINIC FLOOR PLAN

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AD	EL	04	06	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
BY	BM	SM	A1	1:50	10 / 22 /2018	0



RESIDENCE FLOOR PLAN SC 1:50

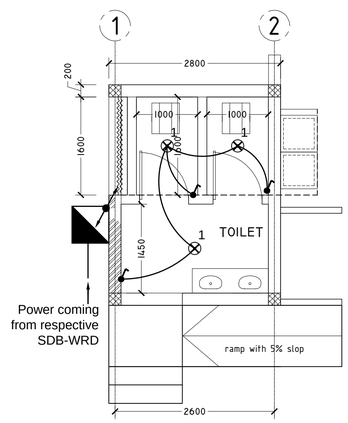


RESIDENCE FLOOR PLAN SC 1:50

Distribution Board Schedule											
Panel Name: SDB-WRD											
Service Voltage: 24Vdc, (2-poles), 2 wire , DC			Bus Type: TPN + PE				Mounting: Flush				
			Bus Rating: 63A/10KA				IP Rating: IP = 44				
			Enclosure: Steel Sheet								
Circuit #	Load Description	Load (KW)	Circuit Breaker Rating (A)	# of Poles	Wire Crossection (mm^2)	Conduit Ø (mm)	Phase R	Phase S	Phase T	Remark	
01	Lighting	0.14	10	2	2x2.5	16	•				
02	Lighting	0.14	10	2	2x2.5	16	•				
03	Lighting	0.05	10	2	2x2.5	16	•			TS	
04	Power outlet to FAN	0.12	16	2	3x2.5	16	•				
05	Lighting for Toilet	0.04	10	2	2x6	50	•				
	Reserve Space (25%)										

Main Switch	25A/2P, MCB with 30mA		KW Connected (P_{Tot})	0.49
Feeder Cable	$2x16mm^2$		Diversity	1.00
P.V.C. Conduit	Ø50mm		KW Demand (P_{Max})	0.49
Power Source	MDB		Current (A)	20.42

NOTE:
Lighting for this Block is calculated to be 100 lux on the working plane but accent light is provided in a socket for the Examination rooms, Reception and Pharmacy to increase illumination level at working plane.



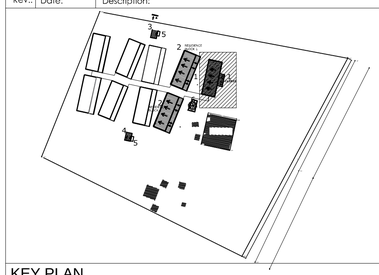
TOILET PLAN SC 1:50

GENERAL NOTES:

LEGEND

	16A Single Socket outlet with $3x2.5mm^2$ fixed over 40cm above F.F.L.
1	Ceiling mounted 1x12W LED $24V_{dc}$
3	Wall mounted 1x12W LED $24V_{dc}$
P.P.	UPVC Pipe
WP	Water Proof
	10A Single-Pole Switch
	10A 2 Gang Double Switch
	10A Triple Switch
	Ceiling mounted Sweep FAN
	FAN Speed Control
	Distribution Board (Flush mounted)
	Earthing Rod in Manhole
	Manhole

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



KEY PLAN

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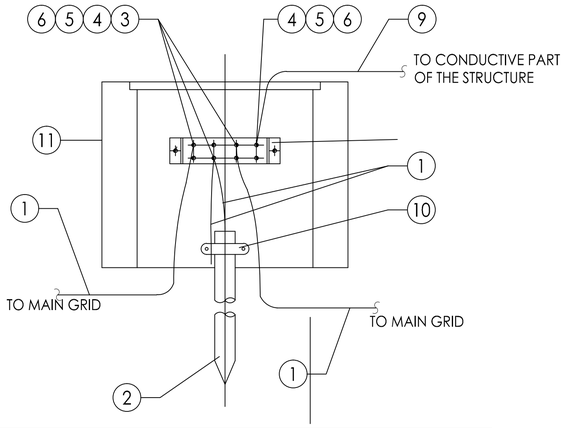
Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	Implemented By:
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

ELECTRICAL INSTALLATION PLAN
RESIDENCE AND TOILET
FLOOR PLAN

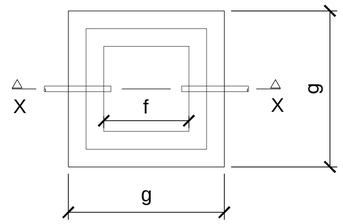
Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AD			EL	05	06	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
BY	BM	SM	A1	1:50	10 / 22 / 2018	0

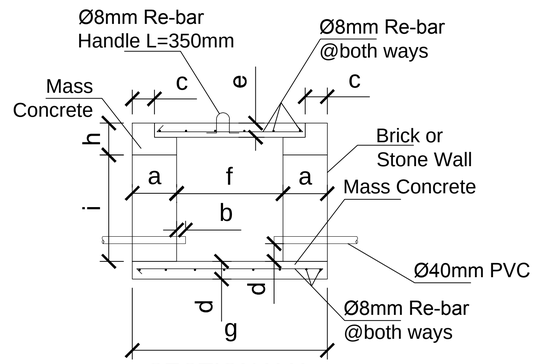
EARTHING SYSTEM DETAIL AT THE EARTHING PIT



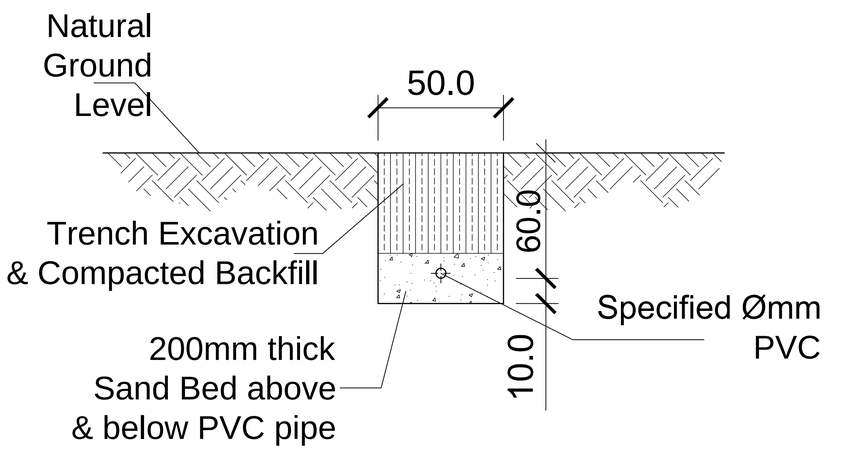
TYPE	DESCRIPTION
1	EARTH STRANDED COPPER CONDUCTOR = 1 x 16mmsq.
2	EARTH ELECTRODE - COPPER ROD 1200 x 10mm
3	COMPRESSION CABLE TERMINAL FOR ROPE IN Cu Ø14.7 (HOLE Ø13)
4	PIN STAINLESS STEEL M12X40
5	FLAT WASHER IN STAINLESS STEEL Ø13 mm
6	DIE IN STAINLESS STEEL M12
7	GROUND STRAP IN Cu DIM. 260 x 100 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 500MM WITH CONCRETE COVER HAVING LIFTING LUG

	MANHOLE OF SIZE 600x600		MANHOLE OF SIZE 400x400	
REF.	STONE	BRICK	STONE	BRICK
a	400	250	400	250
b	50	50	50	50
c	200	125	200	125
d	100	100	100	100
e	80	80	80	80
f	600	600	400	400
g	1400	1100	1200	900
h	180	180	180	180
i	700	700	500	500





SECTION X-X



SECTION A-A
CABLE TRENCH DETAIL

SCALE 1:25

GENERAL NOTES:

LEGEND

	16A Single Socket outlet with 3x2.5mm² fixed over 40cm above F.F.L.
1	Ceiling mounted 1x12W LED 24V$_{dc}$
3	Wall mounted 1x12W LED 24V$_{dc}$
P.P.	UPVC Pipe
WP	Water Proof
	10A Single-Pole Switch
	10A 2 Gang Double Switch
	10A Triple Switch
	Ceiling mounted Sweep FAN
	FAN Speed Control
	Distribution Board (Flush mounted)
	Earthing Rod in Manhole
	Manhole

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved

KEY PLAN

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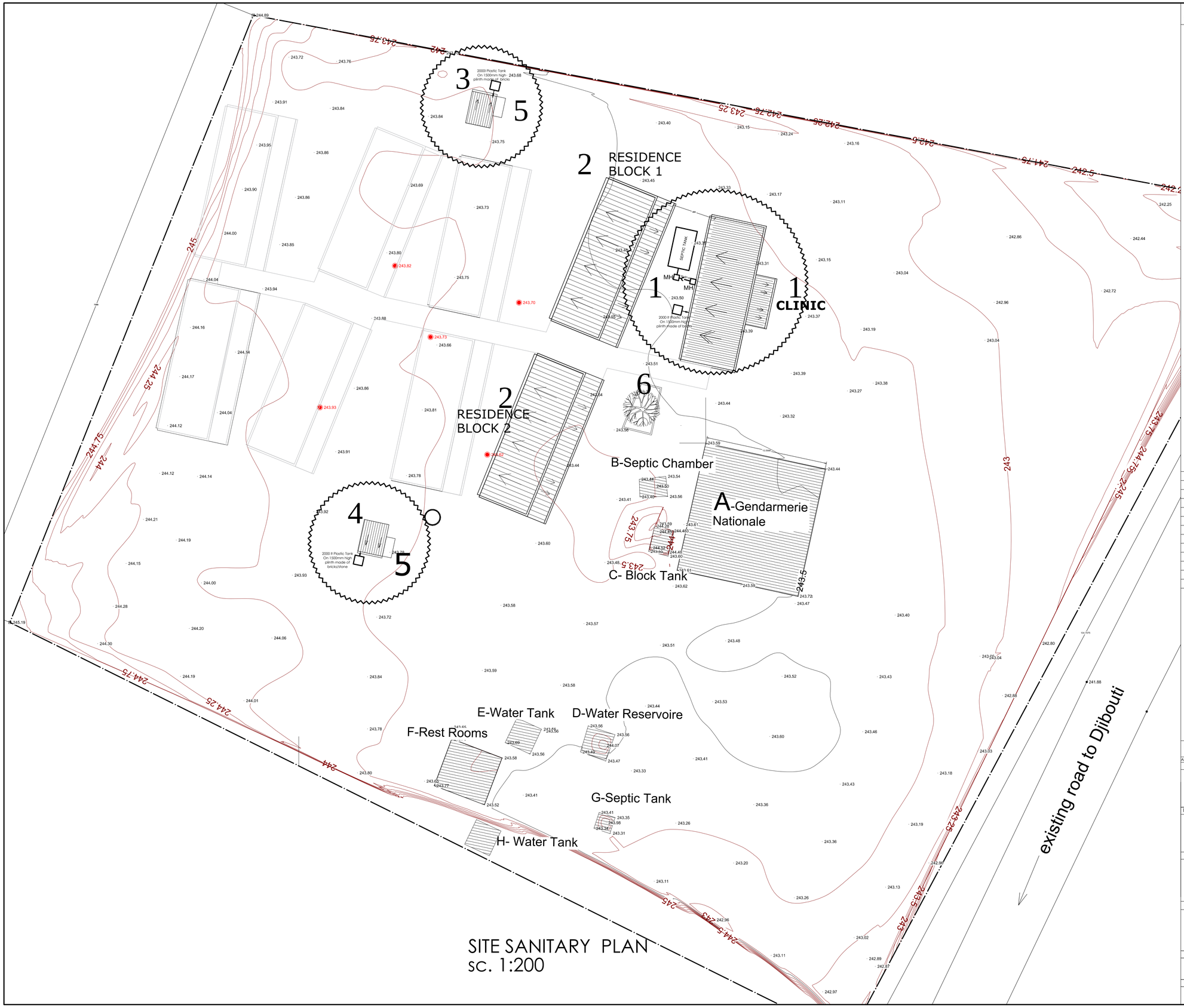
Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	**Implemented By:**
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	**Design:**
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

ELECTRICAL INSTALLATION PLAN
MANHOLE AND EARTHING DETAIL PLANS

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
AD	EL	03	06	R0

Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
BY	BM	SM	A1	AS SHOWN	10 / 22 /2018	0



GENERAL NOTES:

N

Legend

Existing

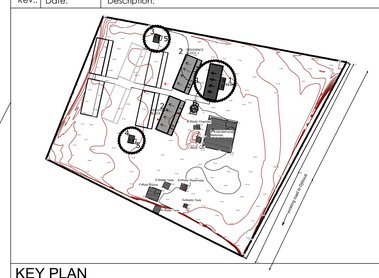
A Gendarmerie Nationale
b septic Chamber
C Block Tank
D Water Reservoire
E Water Tank
F Rest Room
G Septic Tank
H Water Tank

New

1 Clinic
2 Residence
3 Toilet (female)
4 Toilet (Male)
5 Septic Tank
6 Green Area
Tree

FUTURE EXPANSION

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



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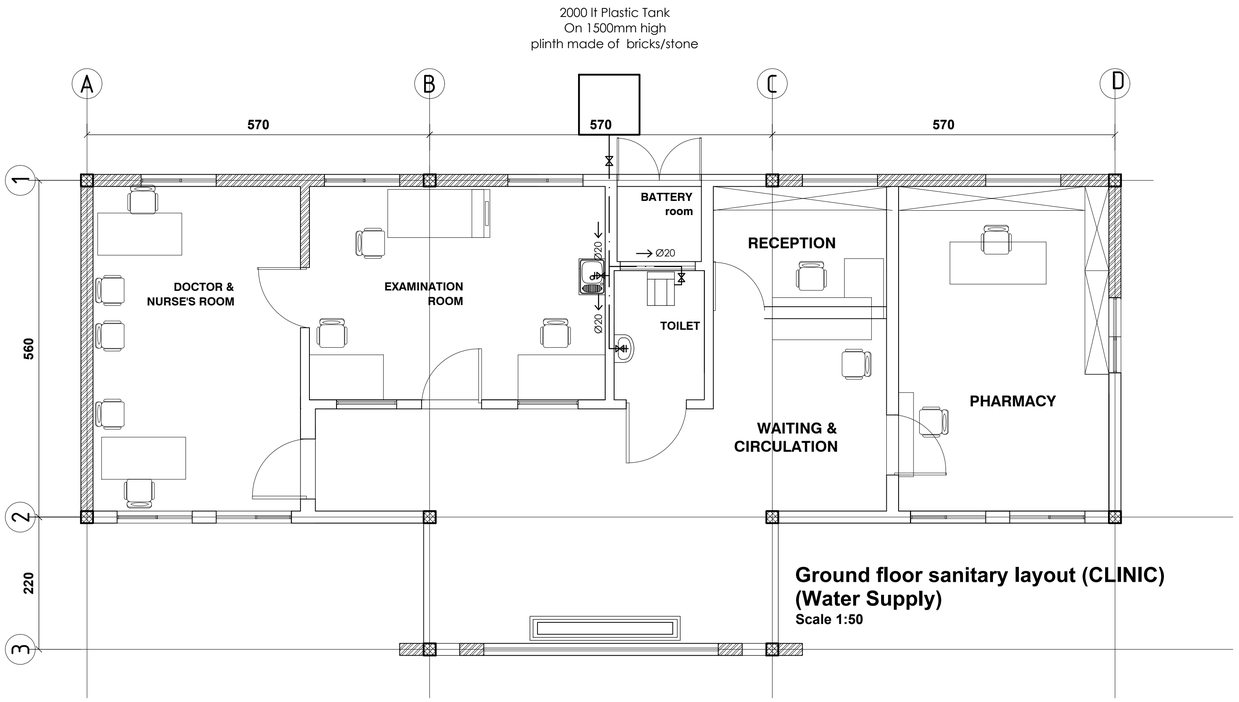
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	Implemented By:
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

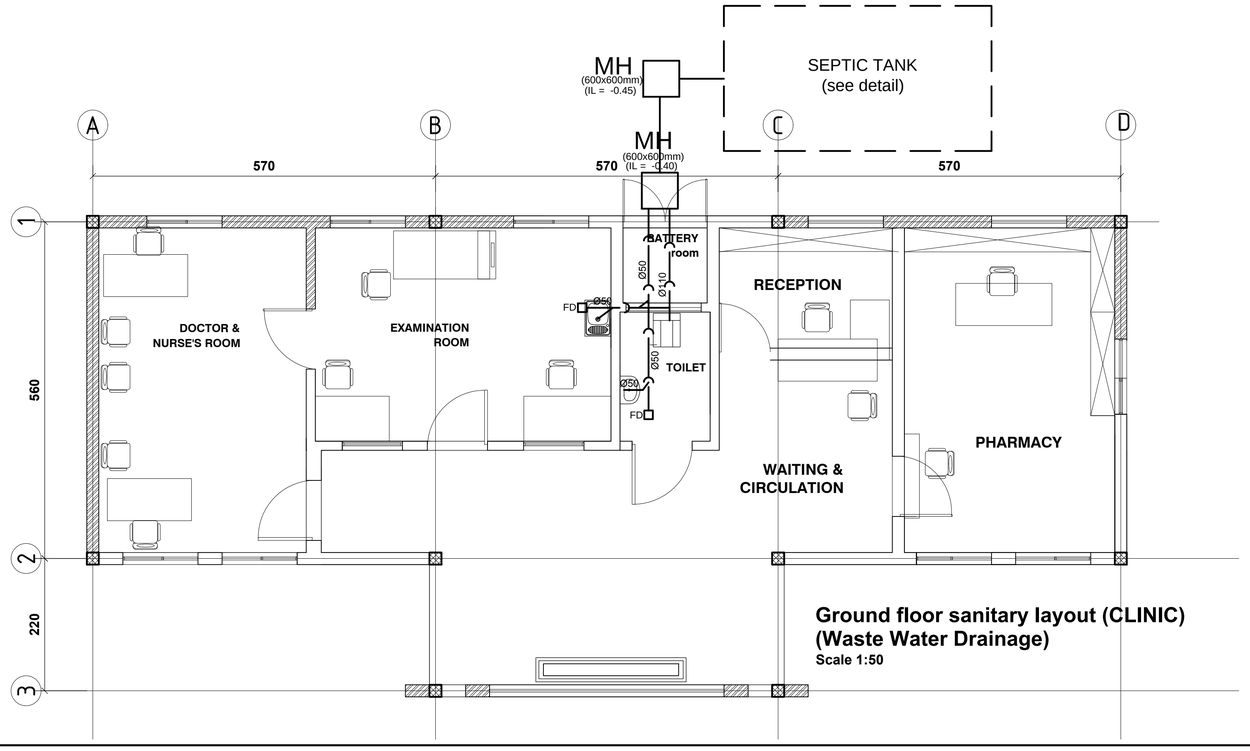
(SITE)

SITE SANITARY LAYOUT

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			**SN**	**01**	**05**	**R0**
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	**A1**	1:200	10 / 22 /2018	0



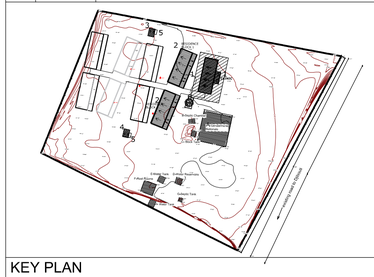
Ground floor sanitary layout (CLINIC)
(Water Supply)
Scale 1:50



Ground floor sanitary layout (CLINIC)
(Waste Water Drainage)
Scale 1:50

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



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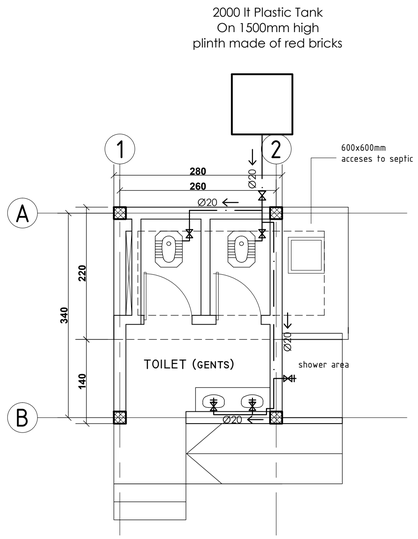
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

Drawing Title:

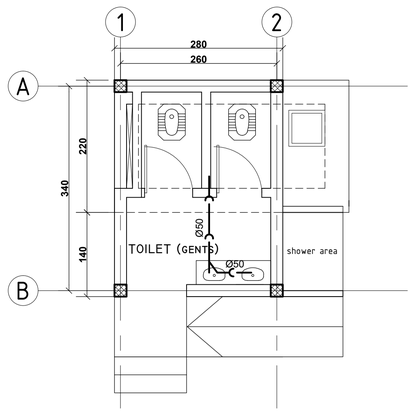
(CLINIC)

Ground floor sanitary layout

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			**SN**	**02**	**05**	**R0**
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	**A1**	1:50	10 / 22 /2018	0



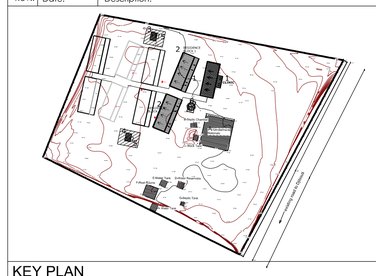
Ground floor sanitary layout (TOILET)
(Water Supply)
Scale 1:50



Ground floor sanitary layout (TOILET)
(Waste Water)
Scale 1:50

GENERAL NOTES:

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



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Project Name:	Design:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia

Drawing Title:

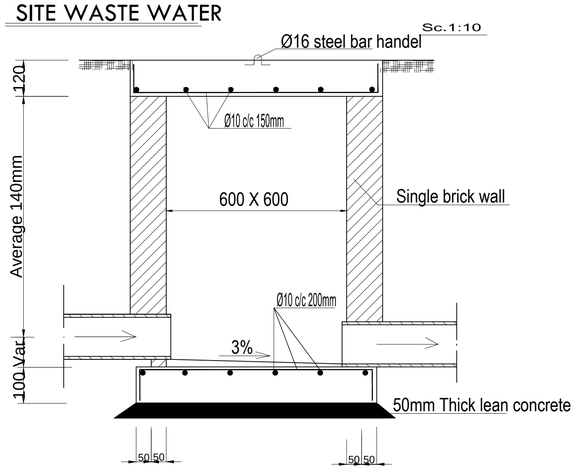
(TOILET)

Ground floor sanitary layout

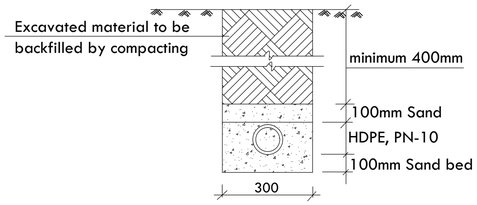
Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			**SN**	**03**	**05**	**R0**
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	**A1**	1:50	10 / 22 /2018	0

TYPICAL SECTION OF MAN HOLE FOR SITE WASTE WATER

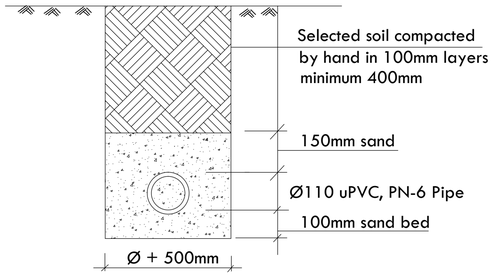
Sc.1:10



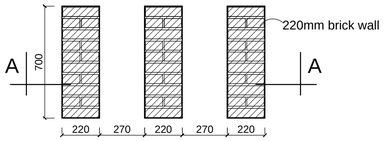
BURIED WATER SUPPLY PIPE LAYING Sc.1:10



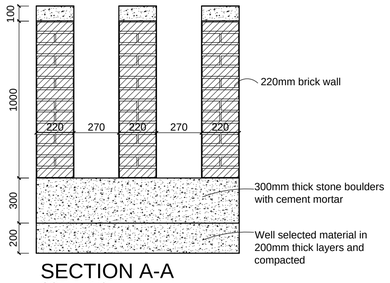
BURIED FOUL WATER DRAINAGE PIPE LAYING Sc.1:10



TYPICAL BRICK WALL PLINTH FOR WATER TANK



PLAN
SCALE -1:25



SECTION A-A
SCALE -1:25

WATER TANK PLINTH
SCALE -1:25

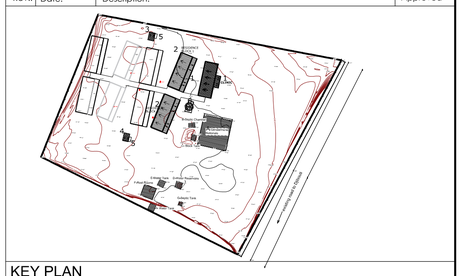
LEGEND

- PPR pipe for cold water Supply for Internal use, PN-20
- HDPE pipe for cold water Supply for External use, PN-10
- Gate valve
- uPVC waste pipe, PN-6

MH - Manhole

GENERAL NOTES:

Rev.:	Date:	Description:	
0	10 / 22 /2018	Original	On process
			Approved



KEY PLAN

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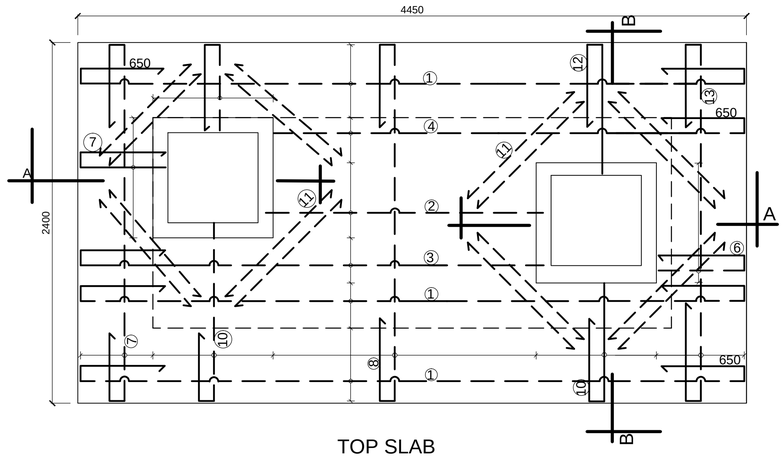
Funded By:	Partner:
United Nations Office on Drugs and Crime Djibouti UNODC United Nations Office on Drugs and Crime	Gendarmerie Nationale Djibouti
Program:	**Implemented By:**
Countering Transnational Organized Crime and Trafficking in Djibouti	UNOPS , ETHIOPIA OPERATIONAL HUB Djibouti Office UNOPS
Project Name:	**Design:**
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti	UNOPS ,ETHIOPIA OPERATIONAL HUB Addis Ababa - Ethiopia UNOPS

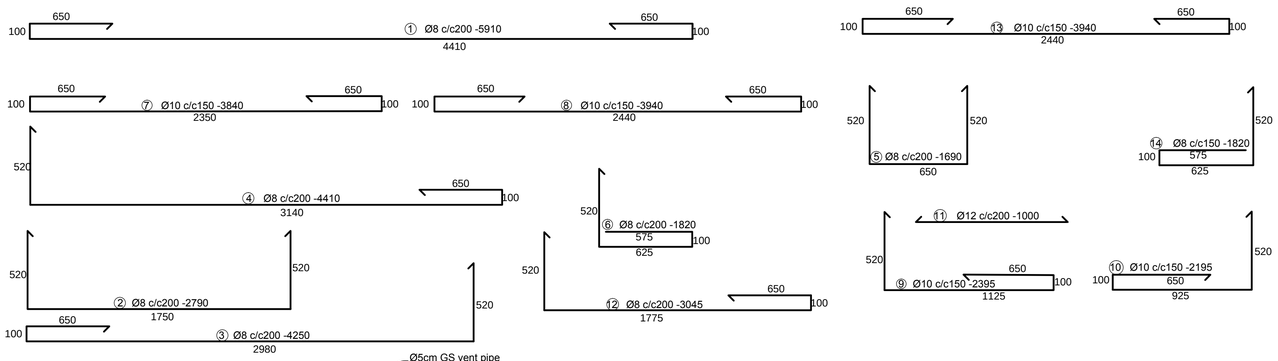
Drawing Title:

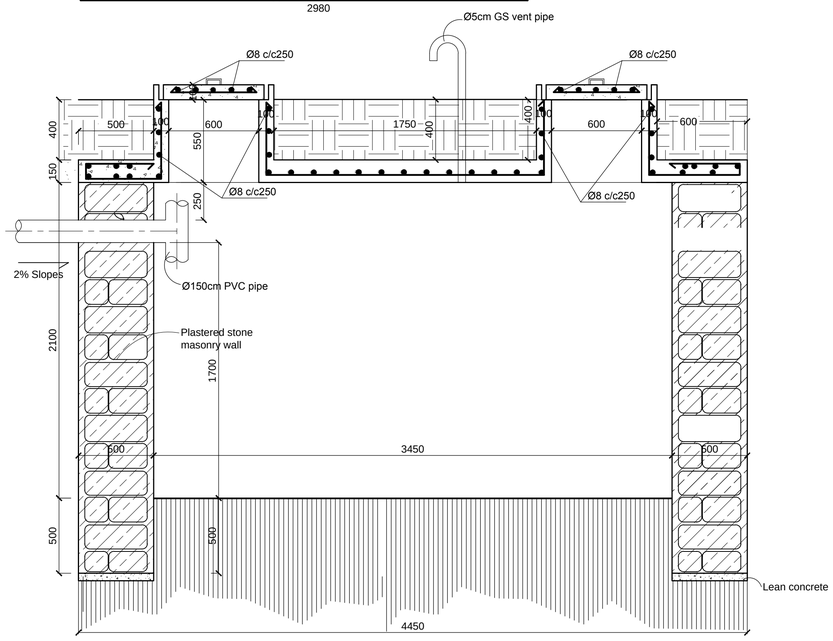
Sanitary details

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			SN	04	05	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	A1	1:20 ,1:10	10 / 22 /2018	0

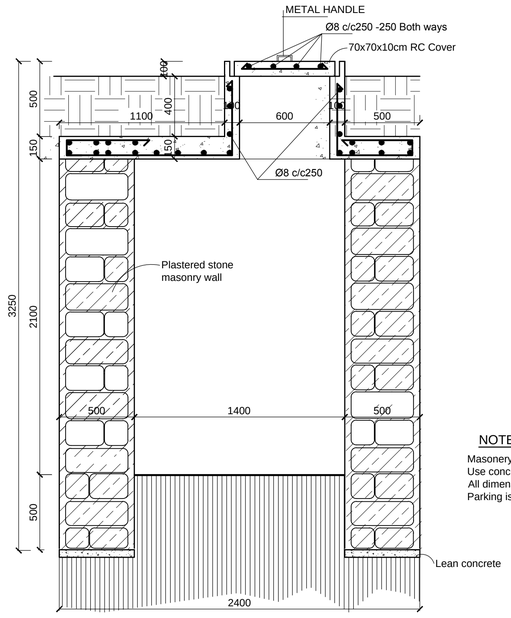


TOP SLAB
SCALE 1:20





SECTION A-A
SCALE 1:20



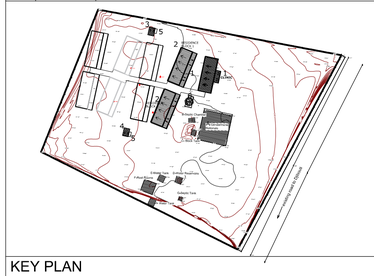
SECTION B-B
SCALE 1:20

NOTE

Masonery wall must buillt with cement mortar.
Use concret quality C-20.
All dimensions are mm.
Parking is not allowed on the slab

GENERAL NOTES:

Rev.:	Date:	Description:	Approved
0	10 / 22 /2018	Original	On process



KEY PLAN

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Funded By:
United Nations Office on Drugs and Crime
Djibouti
UNODC United Nations Office on Drugs and Crime

Partner:
Gendarmerie Nationale
Djibouti

Program:
Countering Transnational Organized Crime and Trafficking in Djibouti

Implemented By:
UNOPS , ETHIOPIA OPERATIONAL HUB
Djibouti Office
UNOPS

Project Name:
Construction of Emergency Shelter for Victims of Trafficking and Vulnerable Smuggled Migrants in Lac Assal, Djibouti

Design:
UNOPS ,ETHIOPIA OPERATIONAL HUB
Addis Ababa - Ethiopia
UNOPS

Drawing Title:
SEPTIC TANK DETAILS

Designed by			Discipline:	Dr. No:	Tot. No:	Rev No:
AE			SN	05	05	R0
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	BM	SM	A1	1:20	10 / 22 /2018	0