








UNHCR
The UN Refugee Agency

PROJECT TITLE

CONSTRUCTION OF SEPTIC
TANKS AND
CESSPOOLS-GAWILAN CAMP

LEGEND

-  New Connection point-Small manholes
-  New Septic tanks
-  New cesspools
-  Main Manholes
-  Sewer pipes-
Mainly 200 mm
Dia.

SHEET NAME :

Layout

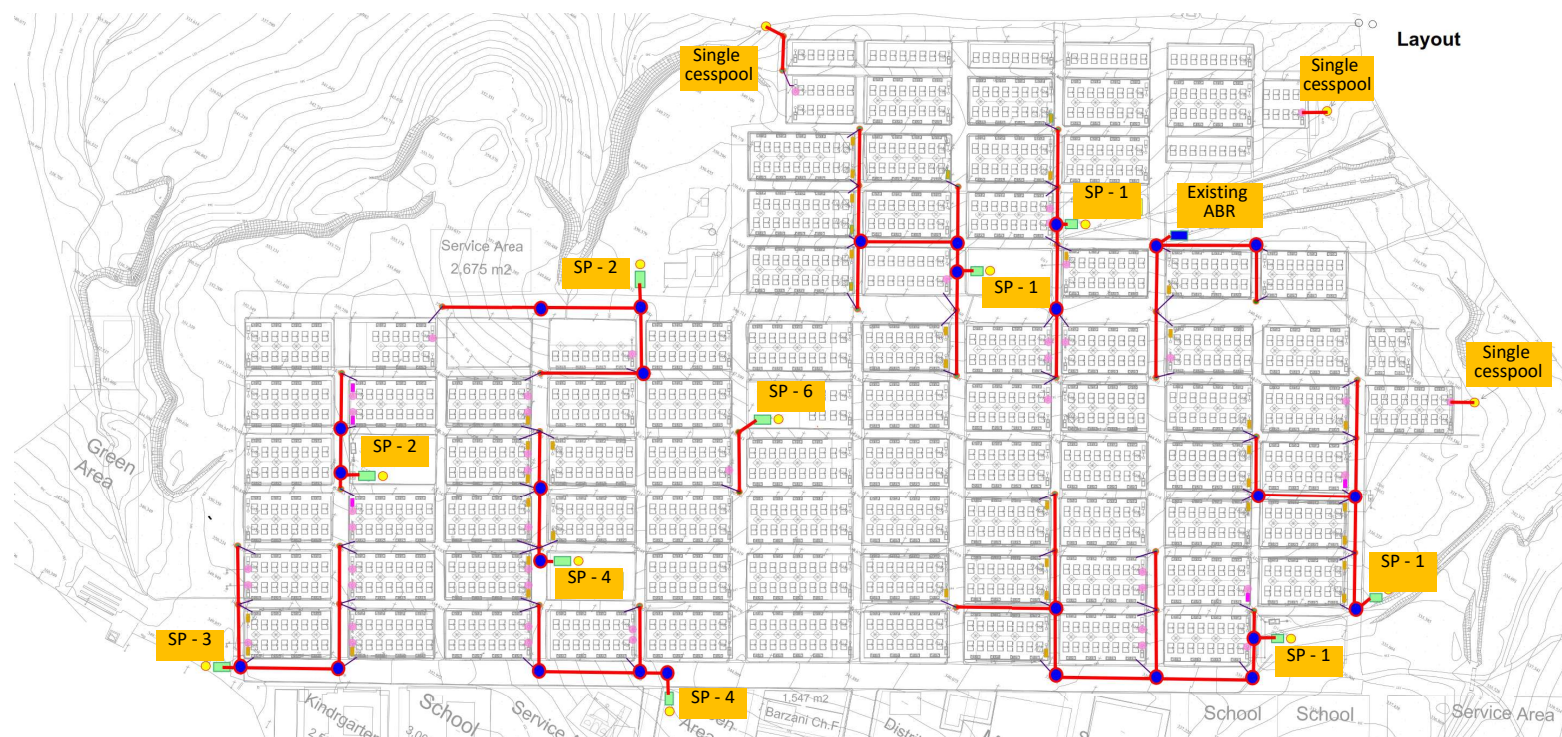
DESIGNED BY: UNHCR Unit
Technical

DRAWING BY: UNHCR Unit
Technical

DATE: November 2021

SHEET General Layout

SHEET
NUMBER: **1**





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SHEET NAME :

Layout

DESIGNED BY: UNHCR Unit
Technical

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SHEET General Layout

SHEET
NUMBER: 2



PROJECT TITLE:

CONSTRUCTION OF SEPTIC
TANKS AND
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CAMP

LEGEND

SHEET NAME :

Trench Section-Pipe Alignment

DESIGNED BY: UNHCR
Technical Unit

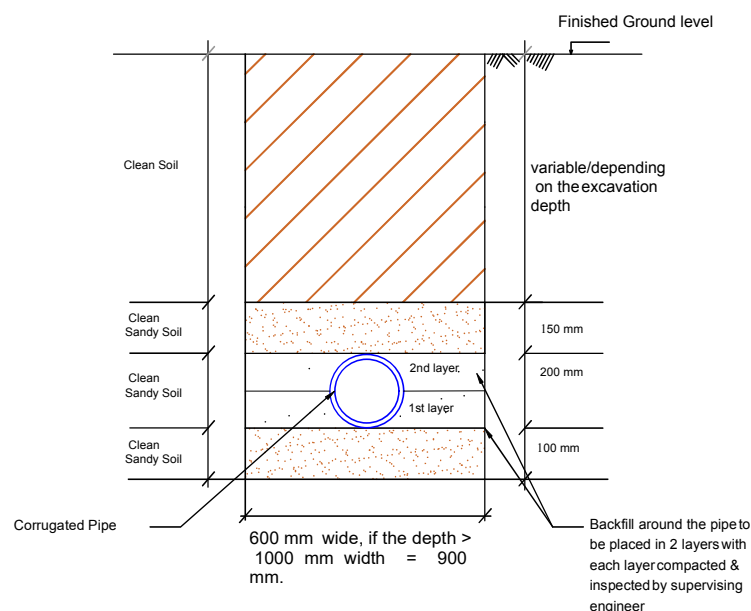
DRAWING BY: UNHCR
Technical Unit

APPROVED BY:

DATE:

SHEET SIZE:

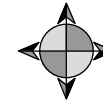
SHEET
NUMBER: **3**



Trench Section-Pipe Alignment



PROJECT TITLE		
CONSTRUCTION OF SEPTIC TANKS AND CESSPOOLS-GAWILAN CAMP		
LEGEND		
SHEET NAME :		
Septic Tank Details		
DESIGNED BY:	UNHCR Unit Technical	
DRAWING BY:	UNHCR Unit Technical	
DATE:		
SHEET		
SHEET NUMBER:	4	



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CONSTRUCTION OF SEPTIC
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LEGEND

SHEET NAME :

Septic Tank Details

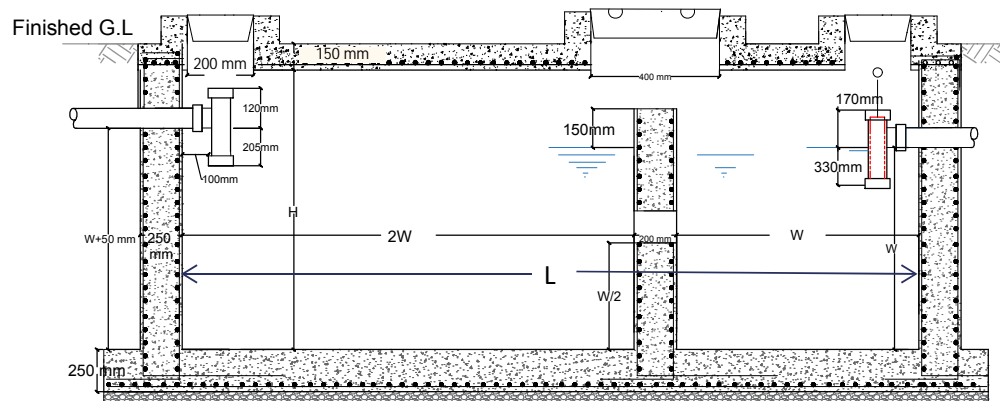
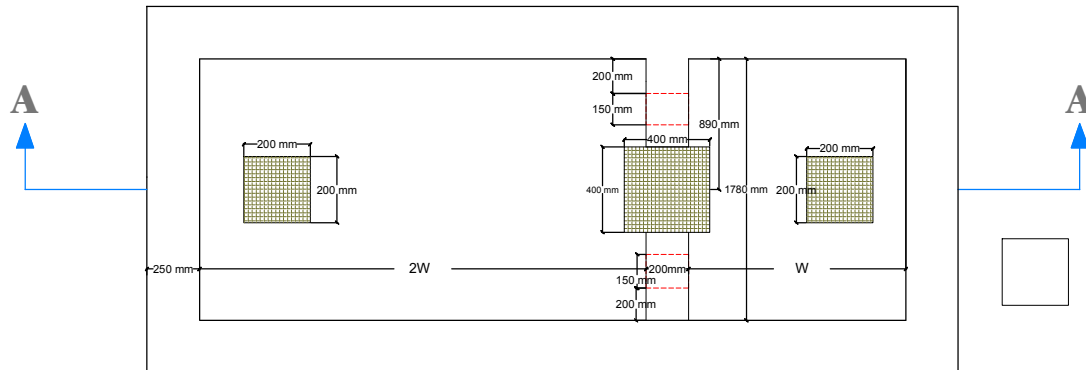
DESIGNED BY: UNHCR
Technical Unit

DRAWING BY: UNHCR
Technical Unit

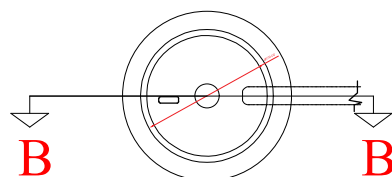
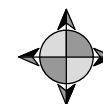
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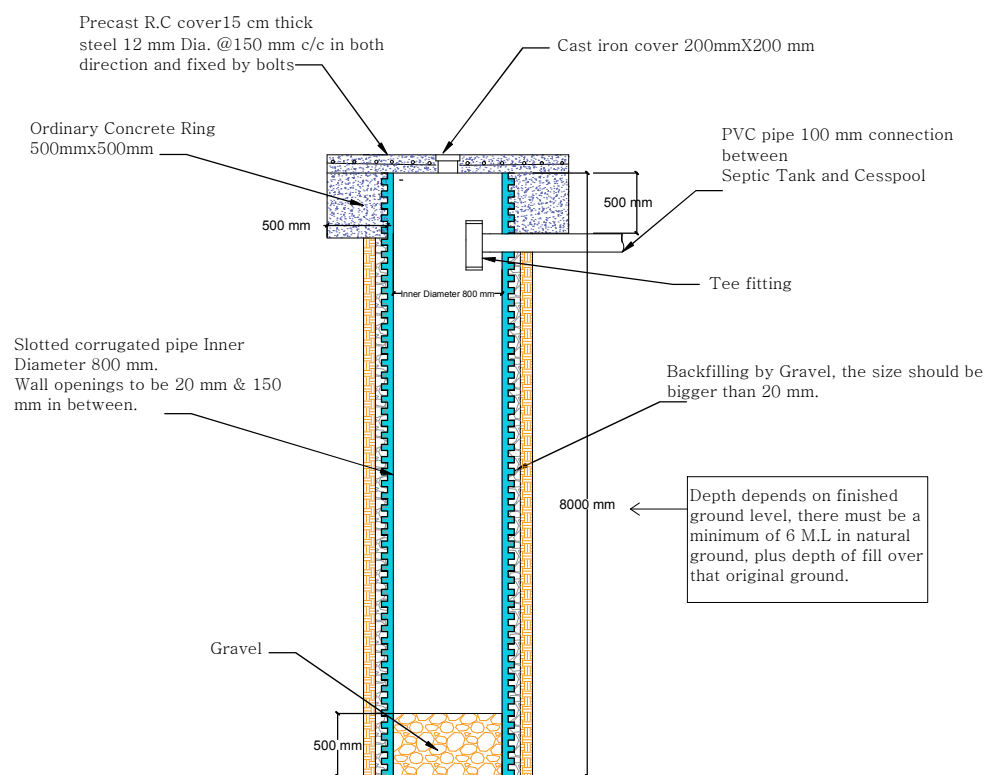
SHEET
NUMBER: 5



SECTION A-A



Top view Cesspool



Section B-B Corrugated pipe Cesspool

PROJECT TITLE

CONSTRUCTION OF SEPTIC
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LEGEND

SHEET NAME :

Cesspool

DESIGNED BY: UNHCR
Technical Unit

DRAWING BY: UNHCR
Technical Unit

DATE:

SHEET SIZE:

SHEET
NUMBER: 6



CONSTRUCTION OF SEPTIC TANKS AND CESSPOOLS-GAWILAN CAMP

LEGEND

Typical Details

Connection Points

DESIGNED BY:	UNHCR Technical Unit
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DRAWING BY:	UNHCR Technical Unit
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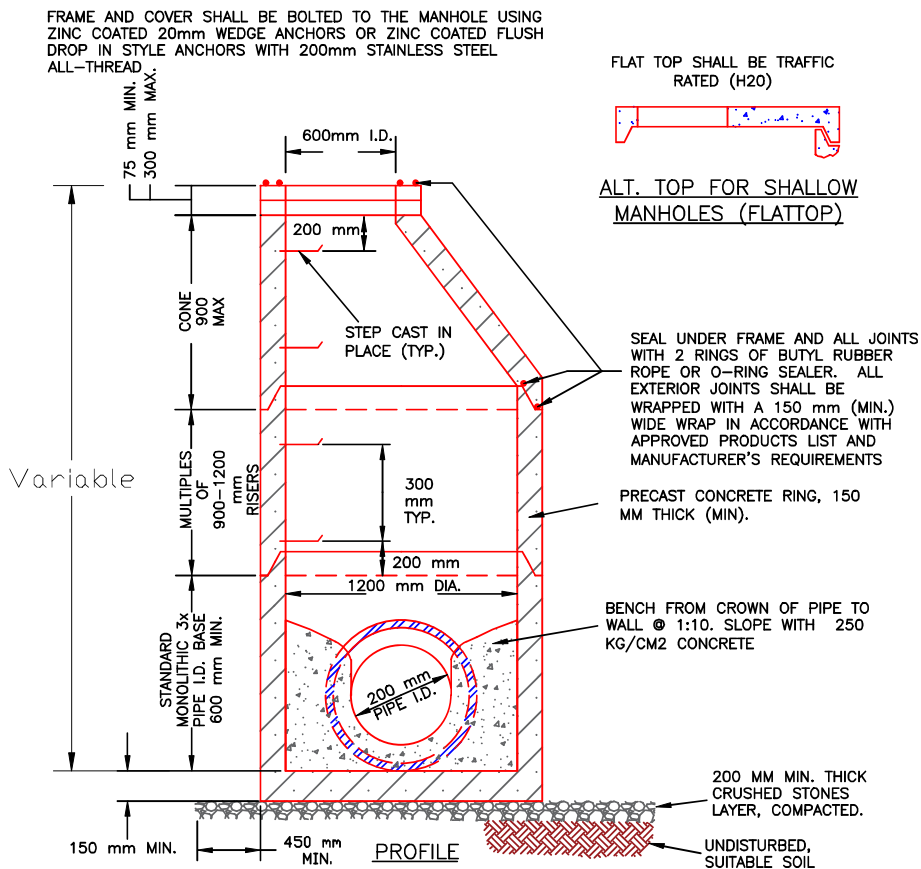
APPROVED BY:

DATE:

SHEET SIZE:

SHEET
NUMBER:

1



NOTES:

1. CONE SHALL BE OF THE ECCENTRIC TYPE.
2. CONNECT PIPE TO SECTION WITH APPROVED FLEXIBLE WATER-TIGHT BOOT & SS CLAMP INSTALLED PER MANUFACTURER'S REQUIREMENTS.
3. SUBMITTALS MUST BE APPROVED BY THE ACSA BEFORE STRUCTURES ARE ORDERED.



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LEGEND

SHEET NAME :

Manhole details

DESIGNED BY: UNHCR Unit
Technical

DRAWING BY: UNHCR Unit
Technical

DATE: November 2021

SHEET

SHEET
NUMBER:

8



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LEGEND

SHEET NAME :

Typical Manhole
bottom

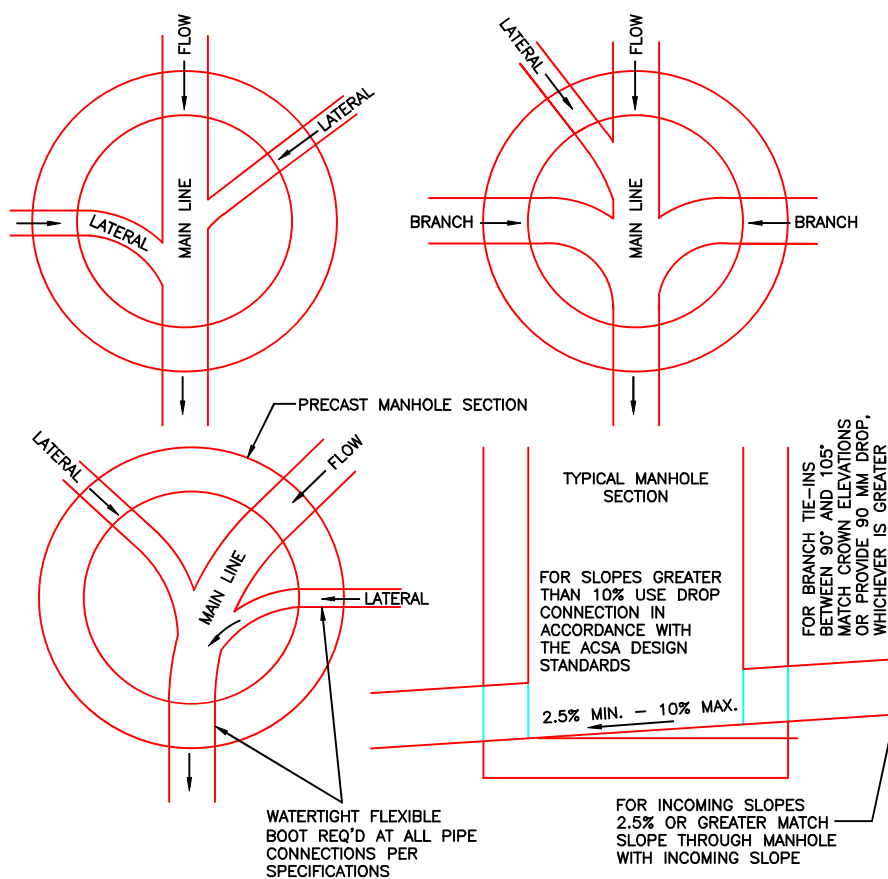
DESIGNED BY: UNHCR Unit
Technical

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Technical

DATE: November 2021

SHEET

SHEET
NUMBER: 9



NOTES:

1. THE INVERT CHANNELS SHALL BE CONSTRUCTED TO THE CROWN OF THE PROPOSED PIPE, FORMED WITH CONCRETE AS SHOWN AND SHALL BE SMOOTH AND SEMI-CIRCULAR IN SHAPE, CONFORMING TO THE INSIDE OF THE ADJACENT SEWER SECTION. CHANGES IN THE DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE OF AS LARGE A RADIUS AS SIZE OF MANHOLE WILL PERMIT. SEE SPECIFICATIONS FOR FURTHER DETAIL.

2. CONNECTIONS APPROACHING AT LESS THAN 90° FROM MAIN LINE, NOT PERMITTED.