

DESIGNS AND DRAWINGS



PREPARED AND FUNDED BY:  
**SAMARITAN'S PURSE**

CONSTRUCTION  
SHOWER AND LATRINE  
DRAWINGS PACKAGE  
**(FROM SLW-01 TO SLW-07)**



NOTES :

PROJECT TITLE:

SINJAR LIVING  
WATER PROJECT

PROJECT LOCATION:

SINJAR / NINEVEH / IRAQ

DRAWING TITLE:

COVER

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	DRAWINGS PACKAGE
SCALE	NTS

COMMENTS:

SHEET No.

0

## 1. GENERAL NOTES:

1.1 THE DESIGN DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATIONS AND DRAWINGS (CIVIL, ELECTRICAL AND MECHANICAL). IN CASE OF ANY DISCREPANCY, THE CONTRACTOR MUST CONTACT THE ENGINEER FOR CLARIFICATION.

1.2 THESE NOTES ARE GENERALLY APPLICABLE TO THE OVERALL SYSTEMS INSTALLATION. ANY ADDITIONAL NOTES ON THE INDIVIDUAL DRAWINGS WHICH ARE SUPPLEMENTARY TO THESE NOTES SHALL BE READ WITH THE INSTRUCTIONS STATED HEREIN.

1.3 IN THE ABSENCE OF ANY INDICATION ON THE DRAWINGS OR THE SPECIFICATION, THE IMPLEMENTATION SHOULD BE DONE AS PER SAMARITAN PURSE ENGINEERS INSTRUCTIONS.

1.4 DO NOT SCALE DRAWINGS, USE ONLY WRITTEN DIMENSIONS.

1.5 UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

1.6 THE CONTRACTOR SHALL BE DEEMED TO HAVE VISITED THE SITE OF WORKS AND SATISFIED HIMSELF AS TO THE NATURE OF THE GROUND AND MADE HIMSELF CONVERSANT WITH LOCAL CONDITIONS TO BE ENCOUNTERED DURING THE EXECUTION OF WORK.

## 2. CONCRETE

2.1 COMPRESSIVE STRENGTH OF CONCRETE,  $f_{cu}$ , AS DEFINED BY STANDARD 150mm CUBE AT 28 DAYS SHALL BE AS FOLLOWS:

- C25 : FOR FOUNDATION SLABS, BEAMS, STAIRS, COLUMNS, SHEAR WALLS,
- C10 : FOR FLOORS LEAN CONCRETE

2.2 TRIAL MIXES SHALL BE PERFORMED AND 28 DAY STRENGTH AND DURABILITY TEST RESULTS MUST BE SUBMITTED TO THE ENGINEER FOR HIS APPROVAL PRIOR TO ANY CONCRETE WORK.

2.3 ALL REINFORCED CONCRETE SHALL BE VIBRATED PROPERLY.

## 3. CEMENT

3.1 ORDINARY PORTLAND CEMENT (OPC) .

3.2 WATER-CEMENT RATIO SHALL NOT BE MORE THAN 0.55 WEIGHT.

3.3 CEMENT CONTENT SHALL BE DETERMINED BY DESIGN MIX TO BE APPROVED BY THE SAMARITAN'S PURSE ENGINEERS

3.4 CEMENT PLASTERING WILL BE USED FOR THE INTERNAL AND EXTERNAL SIDES AND ROOFING OF BATHROOM WALLS (SHOWER + LATRINE)

## 4. REINFORCING STEEL

4.1 ALL REINFORCING STEEL BARS DENOTED BY "Ø" BARS SHALL BE DEFORMED, HIGH YIELD STRENGTH BARS WITH A MINIMUM YIELD STRENGTH OF  $F_y = 420$  MPa.

4.2 REINFORCEMENT SHALL CONFORM TO ASTM A615 STANDARDS.

4.3 REINFORCEMENT SHALL BE PLACED AS SHOWN ON THE DRAWINGS AND IN THE LENGTHS SPECIFIED.

## Sheet Index

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2	SP-WASH-GN-02	General Notes
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4	SP-WASH-FL-04	Floor Plan
5	SP-WASH-CS-05	Building Cross Section
6	SP-WASH-RP-06	Roof Plan
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8	SP-WASH-PP-08	Plumbing Plan
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10	SP-WASH-SC-10	Slab / Structural Details



## NOTES :

PROJECT TITLE:

**SINJAR LIVING  
WATER PROJECT**

PROJECT LOCATION:

**SINJAR / NINEVEH / IRAQ**

DRAWING TITLE:

**GENERAL NOTES**

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	<b>SP-WASH-GN-01</b>
SCALE	NTS

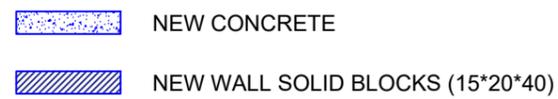
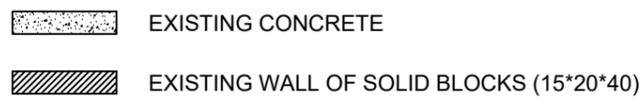
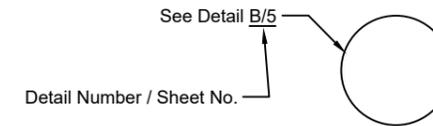
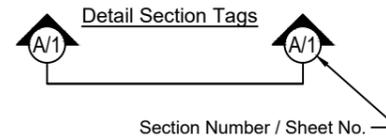
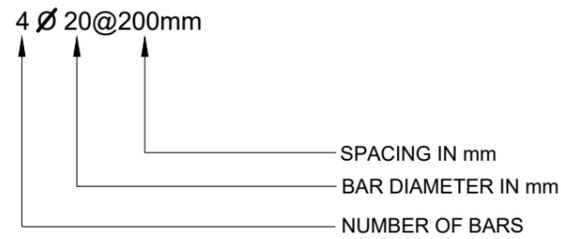
COMMENTS:

SHEET No.

**1**

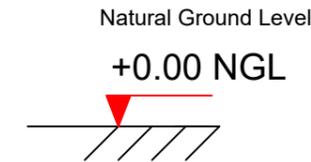
## 5. SYMBOLS

### 5.1 ARCHITECTURE & CIVIL



WINDOW SCHEDULE			
ITEM	TAG	SIZE	TYPE
	1	0.4 x 0.4 m	NEW PVC WINDOW+GLASS
	2	0.4 x 0.6 m	NEW PVC WINDOW+GLASS
	3	Measure in field	GLASS ONLY
	4	Measure in field	EXISTING WINDOW

DOOR SCHEDULE			
ITEM	TAG	SIZE	TYPE
	1	2.1*0.8 m	NEW PVC DOOR
	2	2.1*0.8 m or fit to exist opening	EXISTING DOOR



### 5.2 ELECTRICAL

ITEM	DESCRIPTION
	Single socket-Normal power
	Two Gang Switch
	Interior and Extrior Water Proof Light
	Exhaust Fan 6"
	Distribution Panel Board
	2x4 mm2 Cable
	2x1.5 mm2 Wire

### 5.3 WASH

ITEM	DESCRIPTION
	4 inchs PVC Pipe for black water
	4 inchs PVC Pipe for grey water
	3/4 inchs PVC Pipe for water supply
	3/4 inchs PVC pipe up and down from the roof
	30x30 cm Manhole
	Interior 15x15cm Manhole
	WC Seat (Western toilet)
	WC Seat (Eastern toilet)
	Wash basin
	Tap
	Water Mixer
	Water Boiler
	Ventilation Pipe
	Rain Pipe



### NOTES :

PROJECT TITLE:

**SINJAR LIVING WATER PROJECT**

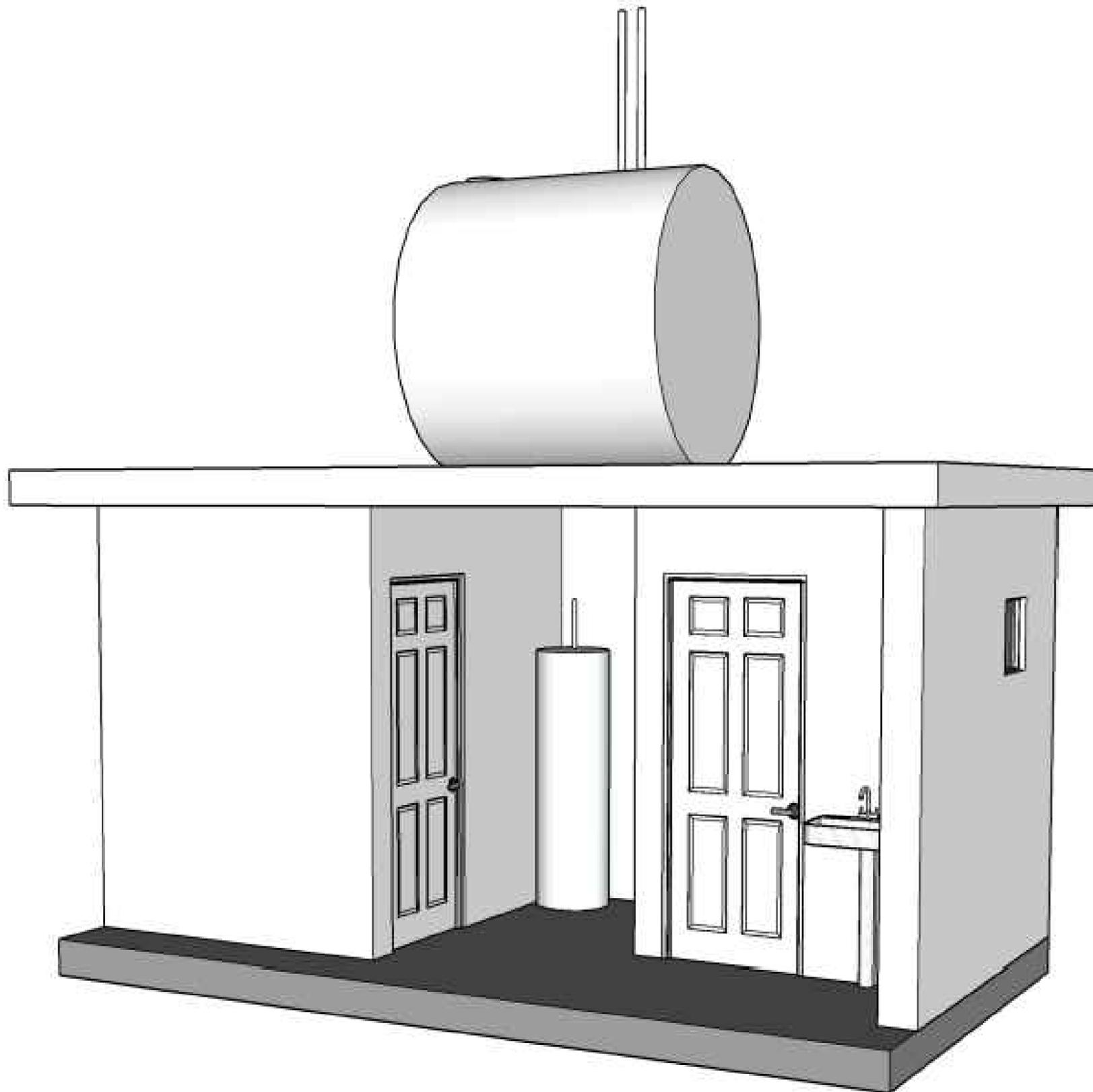
PROJECT LOCATION:

**SINJAR / NINEVEH / IRAQ**

DRAWING TITLE:

**GENERAL NOTES**

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	<b>SP-WASH-GN-02</b>
SCALE	NTS
COMMENTS:	SHEET No. <b>2</b>



NOTES :

PROJECT TITLE:

SINJAR LIVING  
WATER PROJECT

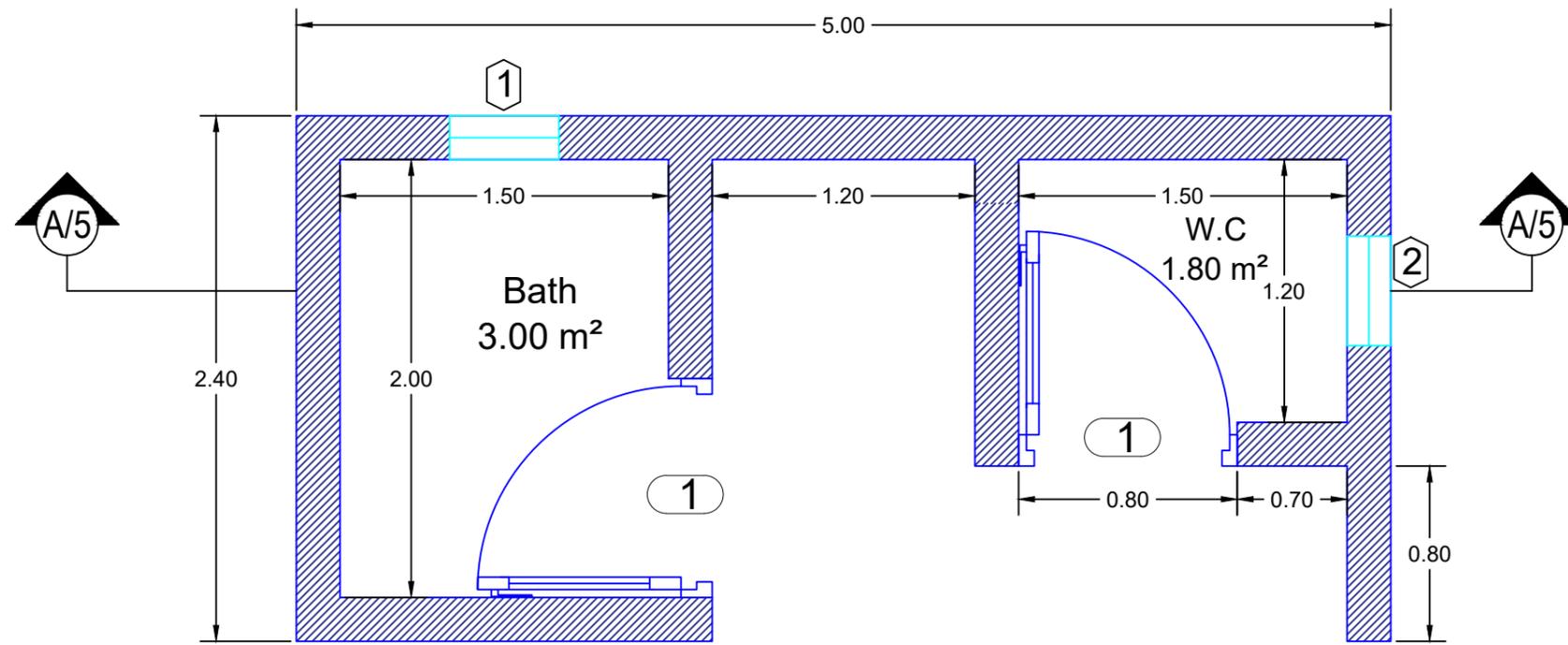
PROJECT LOCATION:

SINJAR / NINEVEH / IRAQ

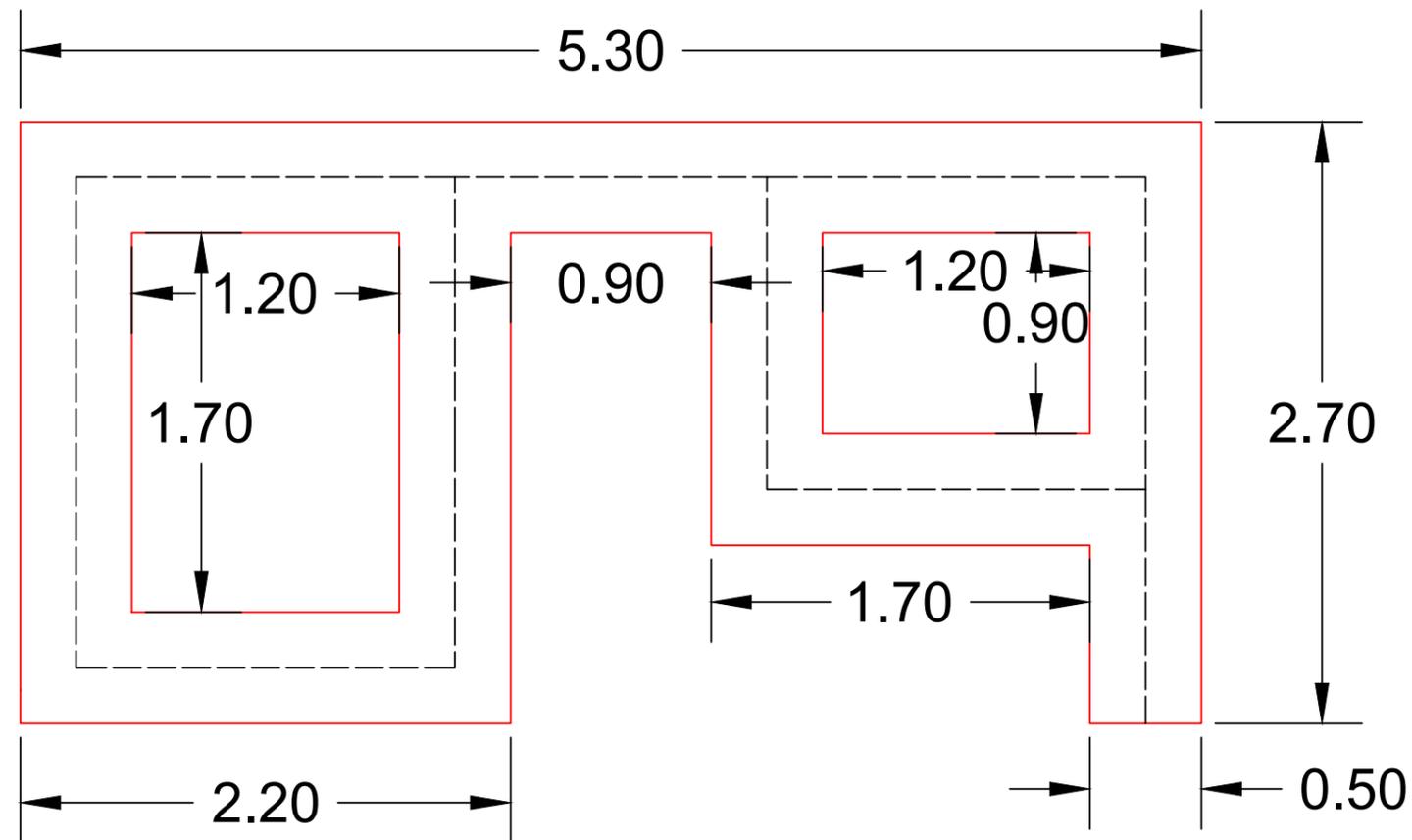
DRAWING TITLE:

Sanitation Facilities

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	SP-WASH-SF-03
SCALE	NTS
COMMENTS:	SHEET No. <b>3</b>



Floor Plan



Strip Foundation



NOTES :

All dimensions in meter

PROJECT TITLE:

SINJAR LIVING  
WATER PROJECT

PROJECT LOCATION:

SINJAR / NINEVEH / IRAQ

DRAWING TITLE:

Floor Plan

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	SP-WASH-FP-04
SCALE	NTS

COMMENTS:	SHEET No. 4
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**NOTES :**

Dimensions are in m and mm

PROJECT TITLE:

**SINJAR LIVING WATER PROJECT**

PROJECT LOCATION:

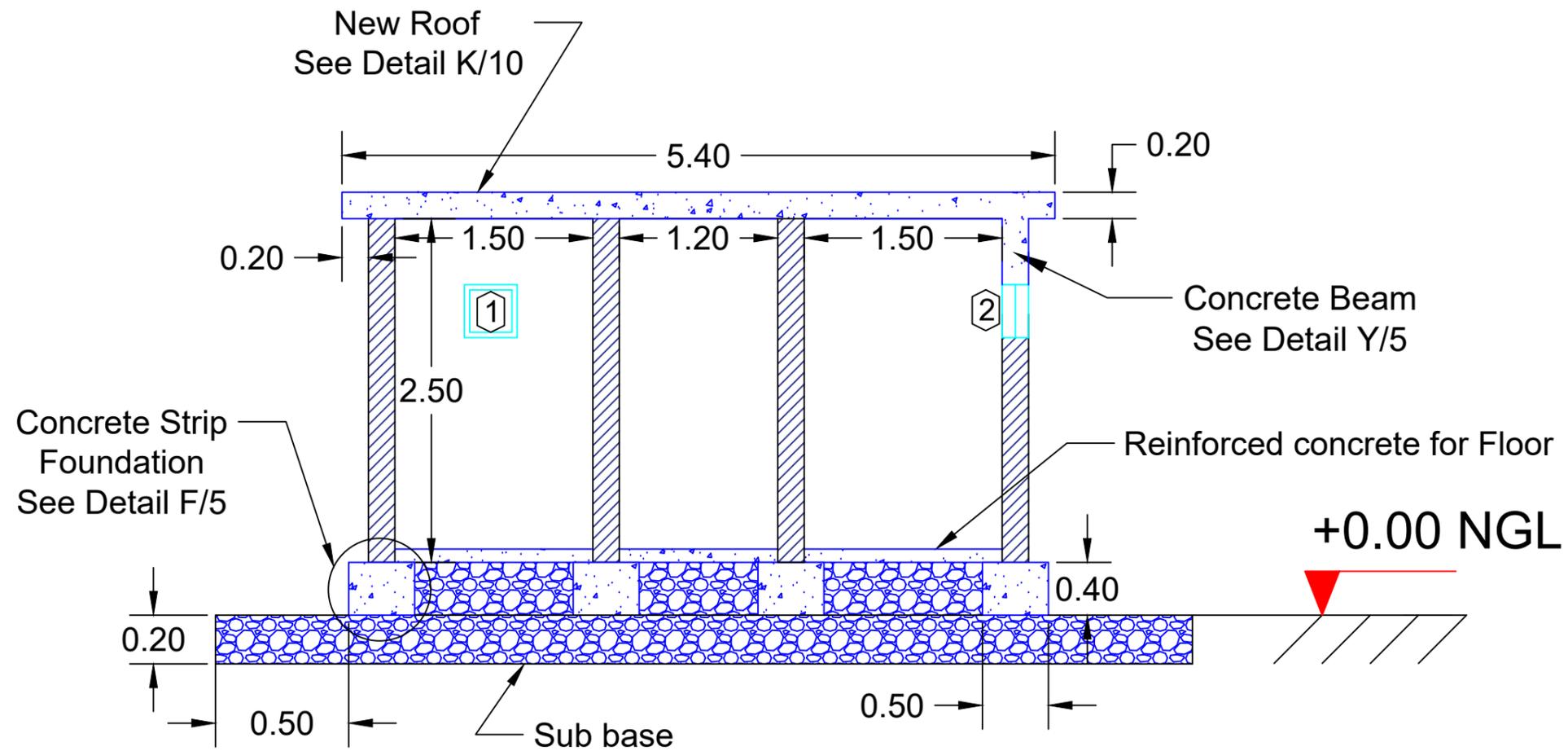
**SINJAR / NINEVEH / IRAQ**

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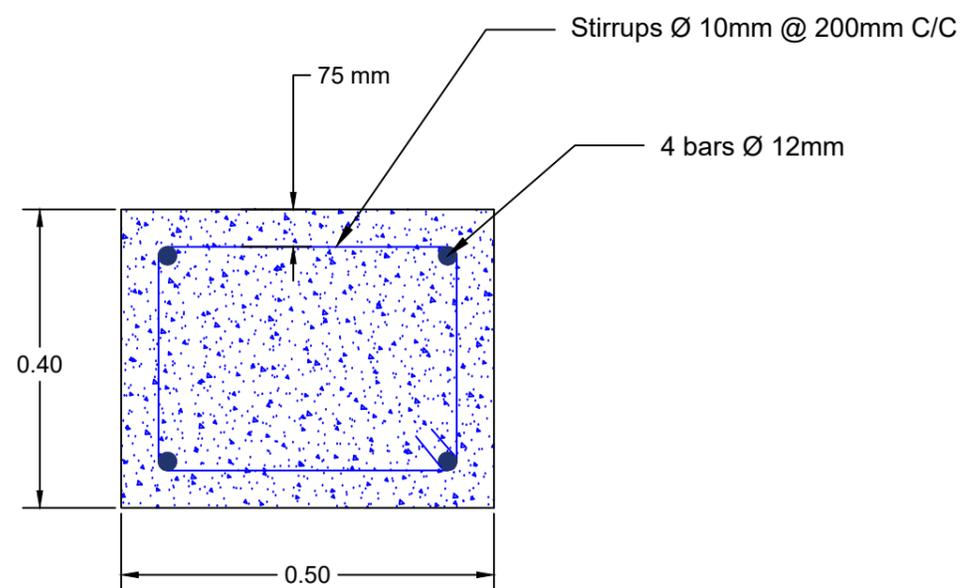
**Building Cross Section**

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	SP-WASH-CS-05
SCALE	NTS

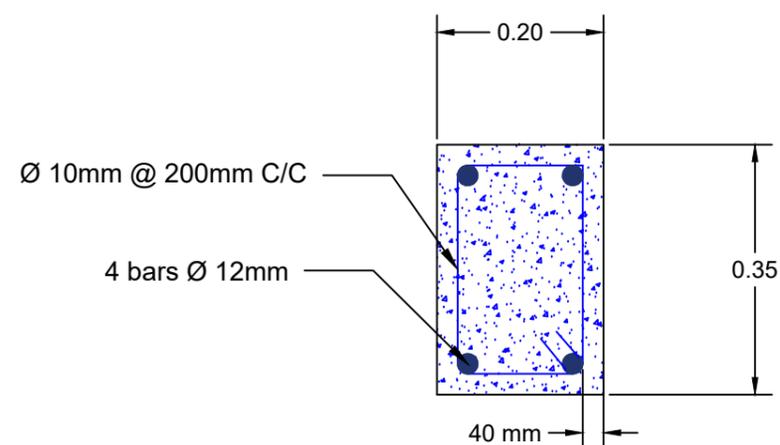
COMMENTS: SHEET No. **5**



Section(A-A)  
Building Cross Section



Detail F  
Strip Foundation



Detail Y  
Concrete Beam

**NOTES :**

Dimensions are in meter

PROJECT TITLE:

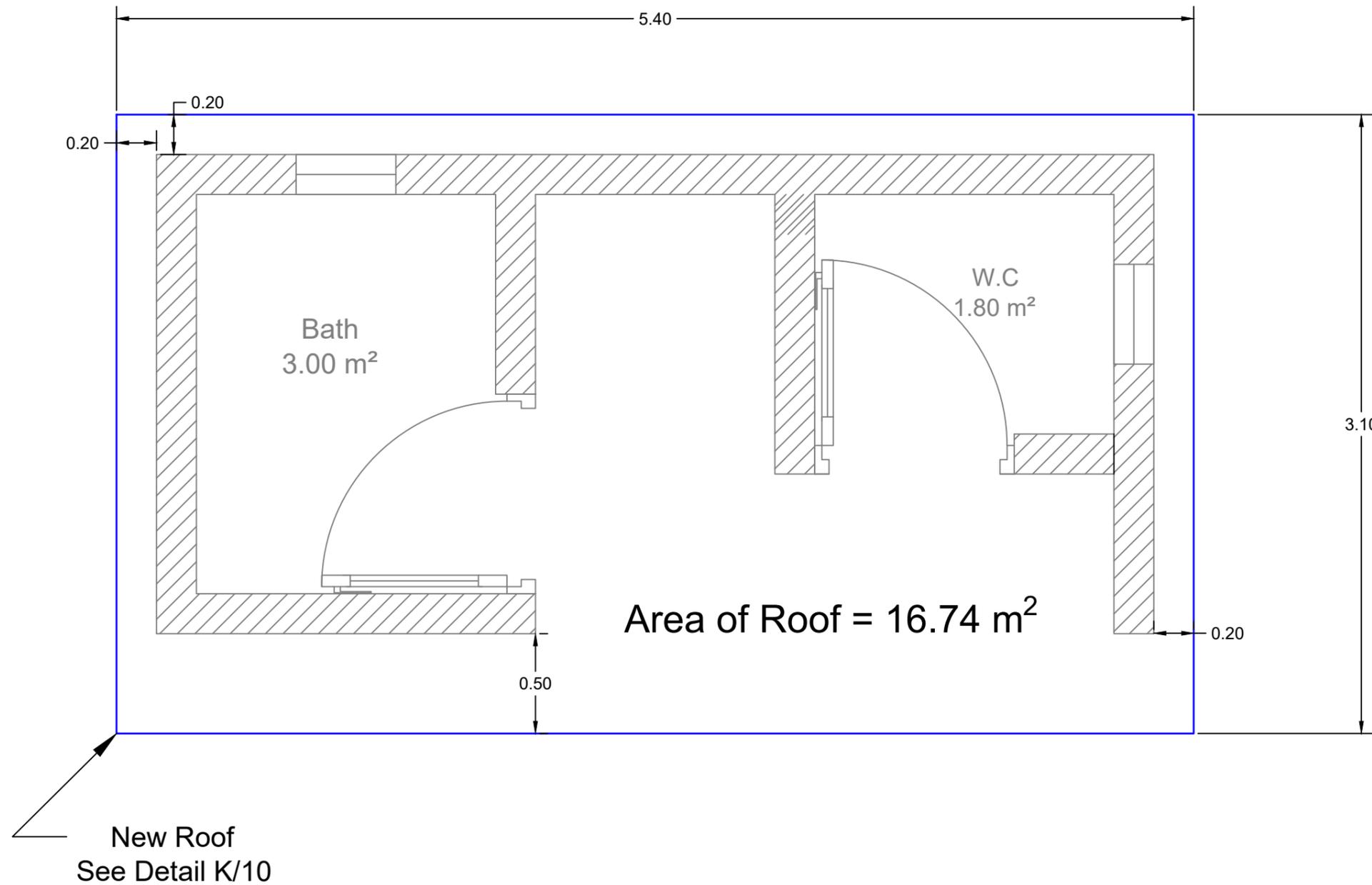
**SINJAR LIVING  
WATER PROJECT**

PROJECT LOCATION:

**SINJAR / NINEVEH / IRAQ**

DRAWING TITLE:

**Roof Plan**



DESIGN	SAMARITAN'S PURSE	
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO	
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS	
FILE NAME	SP-WASH-RP-06	
SCALE	NTS	
COMMENTS:	SHEET No. <b>6</b>	



**NOTES :**

PROJECT TITLE:

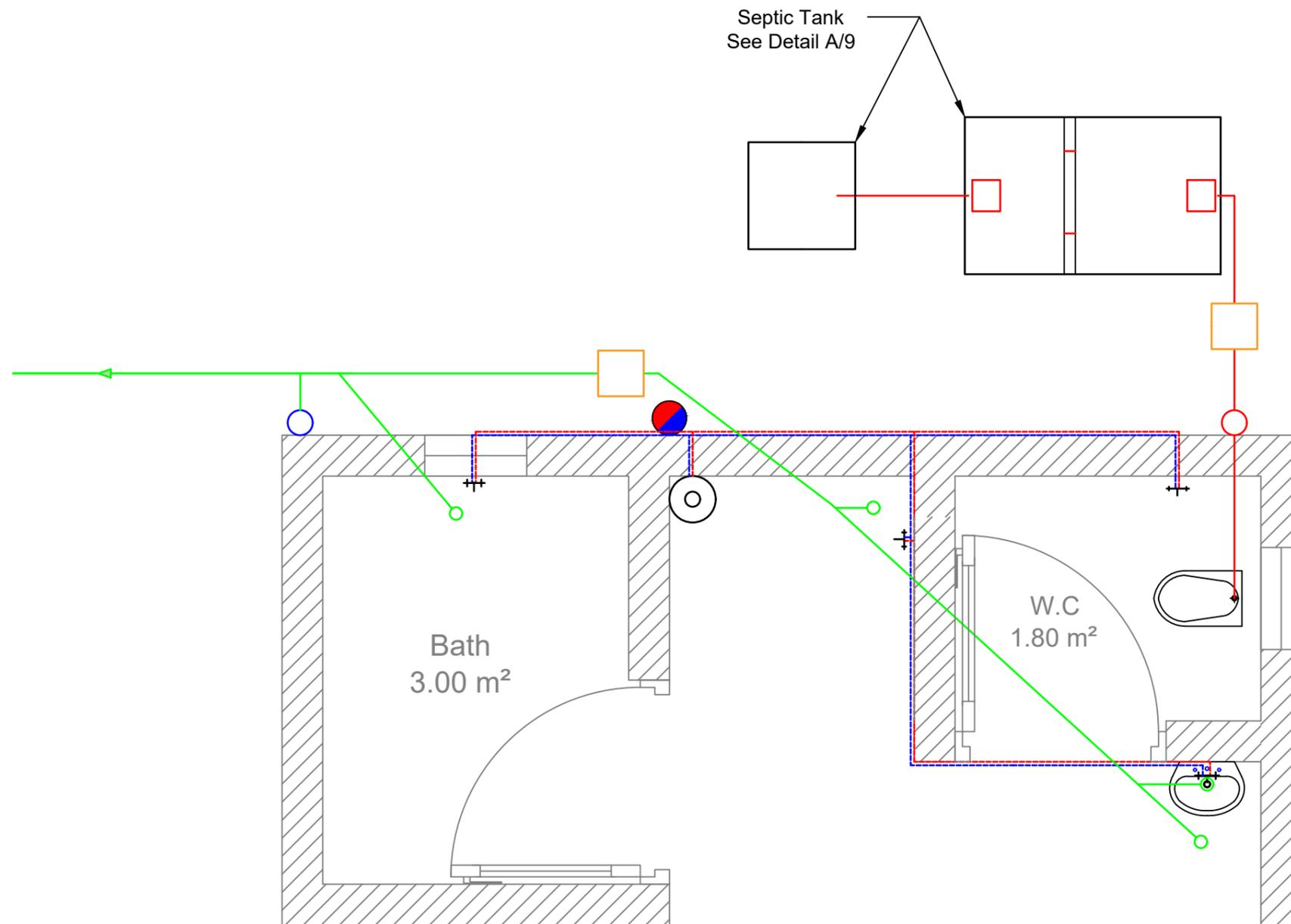
**SINJAR LIVING  
WATER PROJECT**

PROJECT LOCATION:

**SINJAR / NINEVEH / IRAQ**

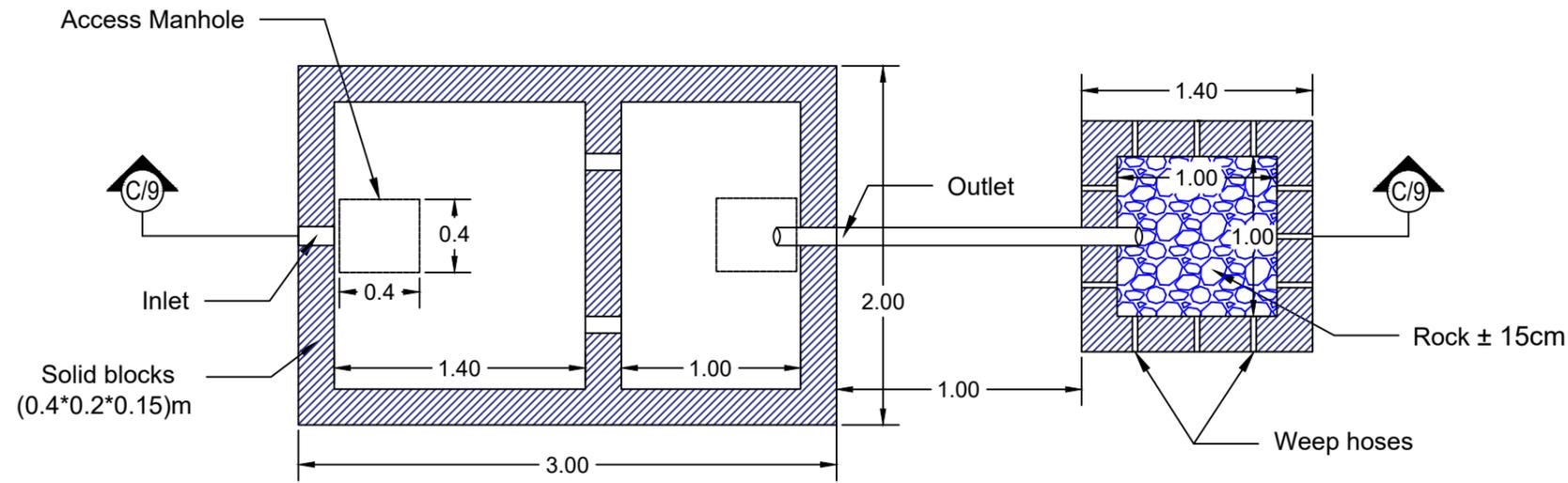
DRAWING TITLE:

**Plumbing Plan**

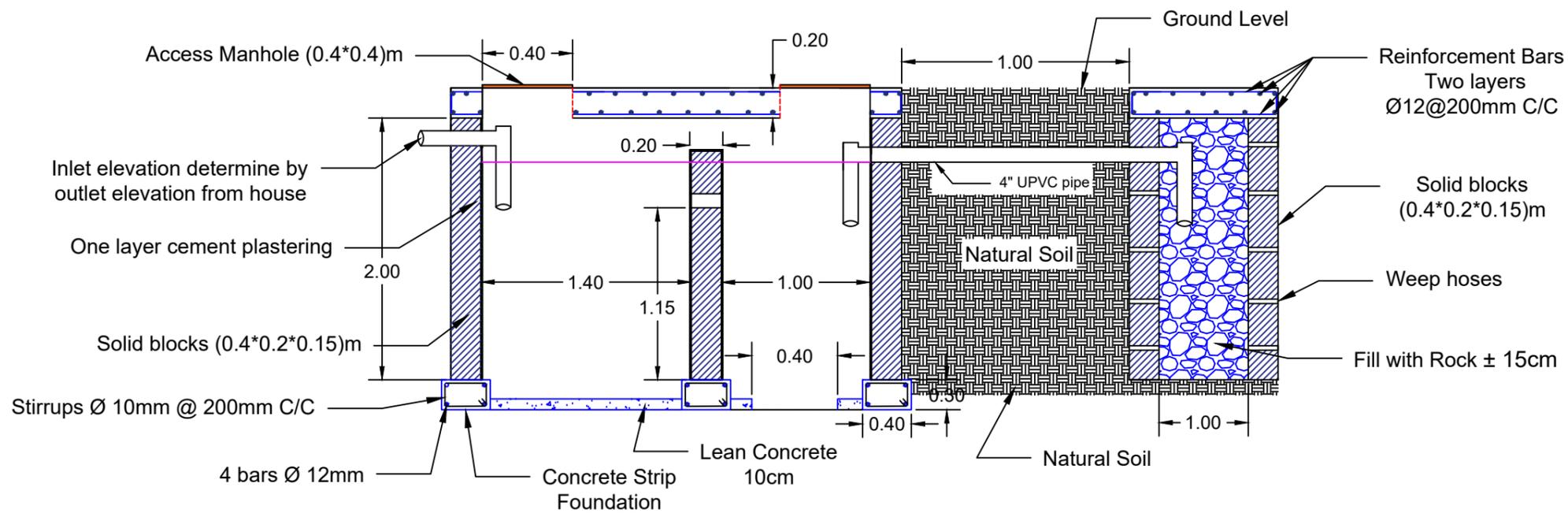


DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	SP-WASH-PP-08
SCALE	NTS

COMMENTS:	SHEET No. <b>8</b>
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Top View



Section C-C

Detail A  
Septic Tank

**NOTES :**

Dimensions are in  
(m, cm, mm & Inch)

PROJECT TITLE:

**SINJAR LIVING  
WATER PROJECT**

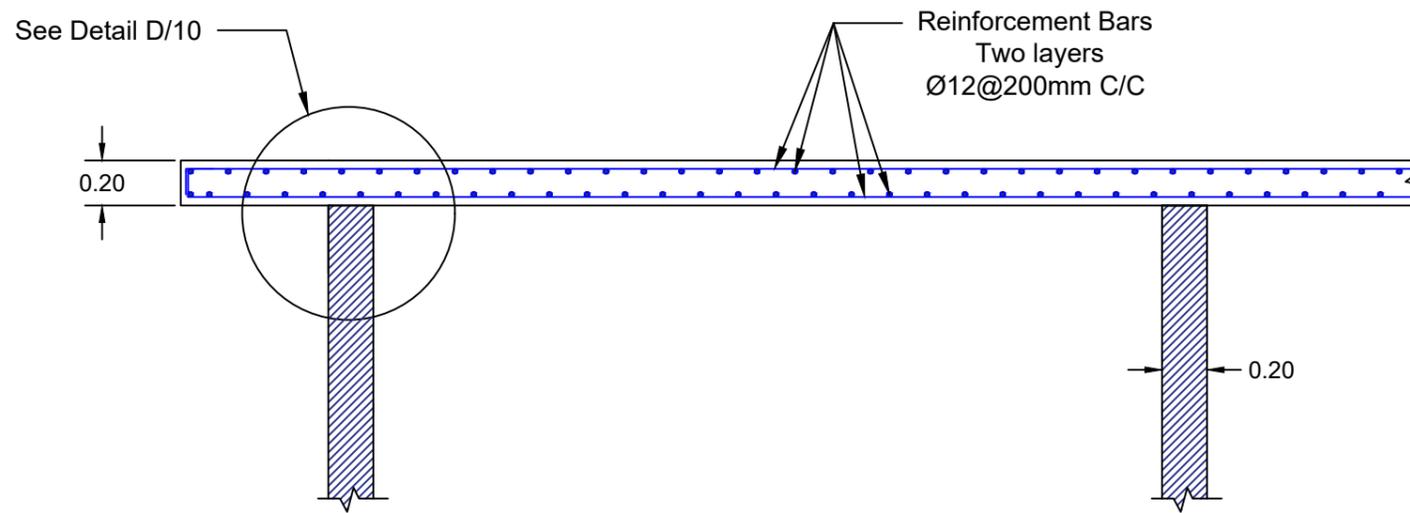
PROJECT LOCATION:

**SINJAR / NINEVEH / IRAQ**

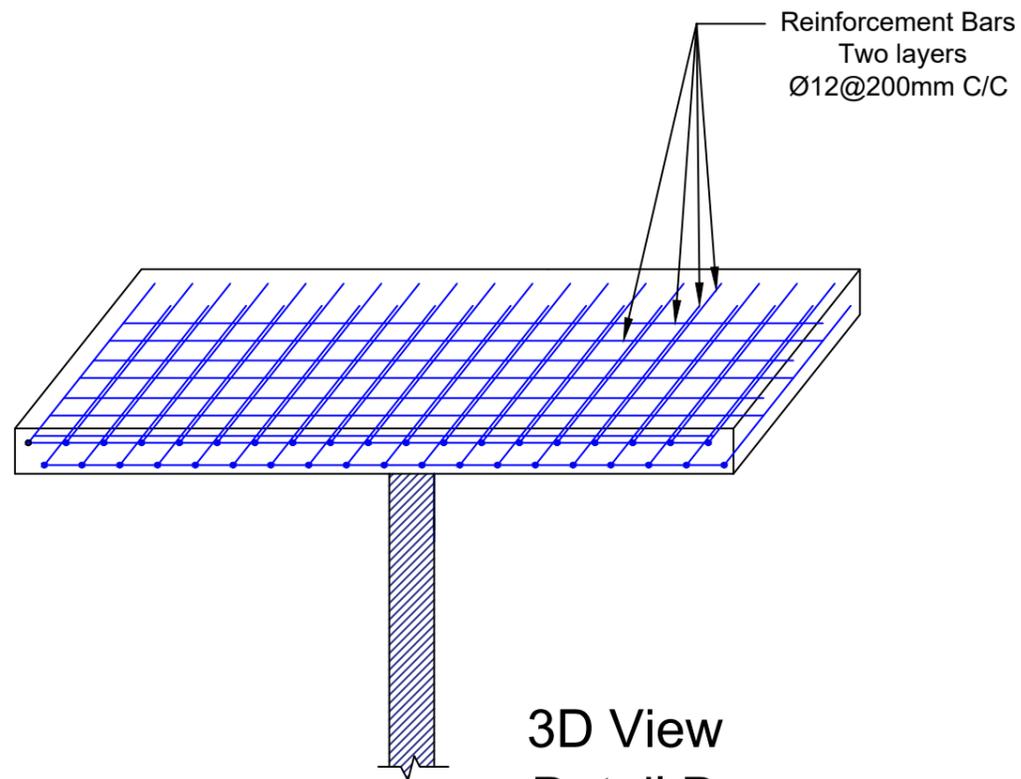
DRAWING TITLE:

**Septic Tank Details**

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	SP-WASH-ST-09
SCALE	NTS
COMMENTS:	SHEET No. <b>9</b>



Detail K



3D View  
Detail D

**NOTES :**

Dimensions are in meter and millimeter (m & mm)

PROJECT TITLE:

**SINJAR LIVING  
WATER PROJECT**

PROJECT LOCATION:

**SINJAR / NINEVEH / IRAQ**

DRAWING TITLE:

**Slab / Structural Details**

DESIGN	SAMARITAN'S PURSE
DRAWN	ENG. AMEEN HASAN ENG. DAKHEEL EEDO
CHECKED AND APPROVED	ENG. MIRZA MURAD PM. ALEXIS AMOS
FILE NAME	<b>SP-WASH-SC-10</b>
SCALE	NTS

COMMENTS:	SHEET No. <b>10</b>
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