



-ALL DIMENSIONS IN METRIC UNITS  
THE ELEVATION IS GIVEN BY A DIMENSION

- ALL DIMENSIONS IN METRIC UNITS
- THE STRUCTURE IS LOADED BY A SINGLE MIST WITH SECONDARY COLUMNS SUPPORTING THE STRUCTURE.
- THE DRAINAGE SURFACE WATER IN SITE IS DERANGING VIA DOWN-PIPE AND ONTO THE BLUE NILE.
- THE SURFACE DRAINING DOWN-PIPES USED ARE MADE FROM ZINC WITH A 2" DIM.
- THE SEWAGE SYSTEM PIPES ARE CONNECTED TO MAN SEWAGE NETWORK THROUGH THE LAST MAN-HOLE.
- THE SEWAGE SYSTEM PIPES ARE MADE FROM PPR WITH A 4" DIM.
- MAN-HOLE COVERS ARE MADE FROM IRON.

	SEWAGE LINE PIPE
	SHALLOW MAN-HOLE
	SEWAGE PUMP
	TOILETS
	SURFACE SEWAGE LINE
	PIPE LINE
	LINE PIPE TO THE NILE.

M.H no.	DOWN-PIPE		
	HIGH (m)	WIDTH (m)	DEPTH (m)
1."1.1"	0.45	0.45	0.45
2."2.2"	0.50	0.50	0.60
3."3.3"	0.55	0.55	0.75
4."4.4"	0.60	0.60	0.90
5."5.5"	0.70	0.65	1.05
6."6.6"	0.75	0.70	1.20
7."7.7"	0.75	0.75	1.35
8."8.8"	0.75	1.00	1.50
9."9.9"	0.75	1.00	1.65
10."10.10"	0.75	1.00	1.80
11."11.11"	0.75	1.20	1.95
12."12.12"	0.75	1.20	2.10
13."13.13"	0.75	1.20	2.25
14."14.14"	0.75	1.20	2.37
15."15.15"	0.75	1.20	2.50
16."16.16"	0.75	1.20	2.56
17."17.17"	0.80	1.20	2.69
18."18.18"	0.80	1.40	2.75
19."19.19"	0.80	1.40	2.80
20."20.20"	0.85	1.40	2.86
21."21.21"	0.85	1.40	2.91

	WATER FILTER
SUDAN UNIVERSITY ENGINEERING COLLEGE 5TH YEAR	
SHEET NO. 1	

**SCALE**  
1:500

# WATER SUPPLY SEWAGE PLAN

CULTURAL AND ENTERTAINMENT CENTER

DESIGNED BY:  
**ALAA MORGANI ABD ALLMAGED**