



**NOTES - DRAINAGE**

1. ALL INTERNAL UNDERGROUND DRAINAGE WORK SHALL BE OF EXTRA STRENGTH STIFFENED CLAY PIPES & TILING CONFORMING TO BS EN 295/1991 WITH PUSH FIT POLYPROPYLENE FLEXIBLE COUPLINGS.
2. UNDERGROUND DRAINAGE PIPES & FROM THE BUILDING TO THE MANKOLE SHALL BE OF DURABLE MATERIALS WHICH ARE NOT SUBJECT TO FLAMMABILITY TESTS.
3. ABOVE GROUND DRAINAGE PIPES SHALL BE UPVC TO BS 4514 FOR SUITS OF 75mm DIA AND ABOVE WITH SOLVENT WELD JOINTS TO SUIT UP TO AND EXCLUDING 100mm DIA PIPES SHALL BE ABS/PVC/UPVC TO BS 5245/5255 SURFACE FINISH.
4. FLOOR GULLIES SHALL BE TOTUM OR UPVC WITH A 25mm DIA DEEP SEAL TRAP PROVISION FOR BACK INLET CONNECTION A CRANE AND A BLANK COVER PLATE SHALL BE PROVIDED.
5. WASH HAND BASINS BATHROOMS/SHOWER/MAINS WC ETC. CONNECTION SHALL BE PROVIDED WITH A 75mm DEEP SEAL TRAP.
6. ALL INTERNAL WASTE PIPES TO BE BRACED AT MANKO CENTERS AT METER SPACES AND ADDED TO THE DRAINAGE SYSTEM.
7. OUTLET AND ADAPTERS SHALL BE FITTED TO INSURE THAT CORRECT AIR AND WATER SEAL IS TO BE ATTAINED.
8. DOOR OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF ALL SEAL AND INSEPARABLE.
9. FOR PIPES WORK FLEXIBLE JOINTS TO BE PROVIDED BY USH (FLEXIPIPE) AT EACH JOINTS.
10. RAMPS SHALL BE FITTED AS BELOW

ITEM	TRAP SIZE & TYPE	ITEM	TRAP SIZE & TYPE
A. BASIN	52mm BOTTLE	C. BOTTLE	75mm
B. SHOWER	42mm 90°	D. BOTTLE	100mm 90°
E. BIDET	50mm 90°	F. GULLY	100mm 90°

11. SEWER HAVING A DEPTH OVER 1.200m LESS THAN 1.500m IN DESIGN AREAS AND 200m IN PAVED AREAS SHALL BE ADEQUATELY PROTECTED WITHIN CONCRETE SURROUND 150mm THICK WITH THE PIPE WORKS FLEXIBLE JOINTS.
12. ALL DRAINS MUST BE CHECKED PRIOR TO CONSTRUCTION.
13. ALL PIPE WORKS SHALL BE INSTALLED STRICTLY AS PER THE MANUFACTURERS RECOMMENDATION.
14. SEPTIC TANK/MANHOLES/SOMAWA/YEEDING FOR PIPE WORK AND OTHERS DRAINAGE DETAILS TO COMPLY WITH THE DEVELOPER'S "DRAINAGE GUIDE" & TECNOMIXY OF DUBAI AND THE GOVERNMENT AND AGRICULTURE ENGINEERING DEPARTMENT, SERVING DIVISION.
15. A VENT PIPE IS REQUIRED AT ALL STARTING MANHOLES THE VENT PIPE SHOULD BE DIA 100MM AND ADJUST TO SUIT.
16. MANHOLES THAT ARE MORE THAN 1 METER DEEP ARE TO BE CONSTRUCTED IN MASS CONCRETE (S.R.C.).
17. ALL MANHOLE COVERS ARE TO BE OF RUBBLE SEAL AND RECESSED TYPE.
18. NO SURFACE WATER WILL BE DRAINED INTO SOMAWA/SHEESHAN DETAILS.
19. NO DRAINS ARE TO BE ALLOWED TO DISCHARGE INTO THE DRAINS SYSTEMS SHOULD BE DRAINED TO SEPARATE SOMAWA/SHEESHAN DETAILS.
20. DRAINS ARE TO BE PROVIDED IN ACCORDANCE WITH THE GOVERNMENT DRAINAGE REGULATIONS.
21. UNLESS A HOUSE CONNECTION CHAMBER IS EXISTING WITHIN THE PLUG/CLIENT MUST PROVIDE SEPTIC TANK AND SOMAWA.

**NOTE:**  
BEFORE INITIATING THE WORK, THE CONTRACTOR MUST CHECK AND SUPERPOSE ALL PROJECT DRAWINGS ( ARCH., STR., MECH., ELEC., ... ETC.) AND IN CASE OF ANY DISCREPANCY OR MISTAKES IN DRAWINGS OR DETAILS THE CONTRACTOR MUST REFER TO THE DESIGNER FOR CLARIFICATION BEFORE STARTING ANY CONSTRUCTION WORK

U.D.D STAMP	MUNICIPALITY STAMP
Enquiry No. : Application No. :	
CONSULTANT REG. No. :	GRADE : A CONSULTANT REG. No. :
CONSULTANT STAMP & SIGNATURE :	GRADE : A SUB-CONSULTANT STAMP & SIGNATURE :
TECHNICAL MANAGER :	
REGISTRATION No. :	REGISTRATION No. :
Engineering Co. (Q.E.C)	
<b>Al- AQSA</b> Engineering Consultancy (Q.E.C)	
PROJECT : <b>AGRI GREEN</b>	
FACTORY(G), OFFICE(G+1), STORE AND DINING ROOM	
LOCATION: INDUSTRIAL AREA	
CLIENT: ENG. ADNAN FAHAD AL NAIMI	
DATE: OCTOBER, 2012 JOB NO.:	
TITLE: DRAINAGE LAYOUT GENERAL DETAILS FOR DRAINAGE LAYOUT	
DRAWING NO. D-04 SCALE N.T.S	
DRAWN BY: DESIGNED BY: CHECKED BY: E/AHMED ATTIA	
CAD FILE: ARCH. KHALED MOHTAR REGISTRATION No. : REGISTRATION No. :	
REVISION SIGNATURE SIGNATURE	