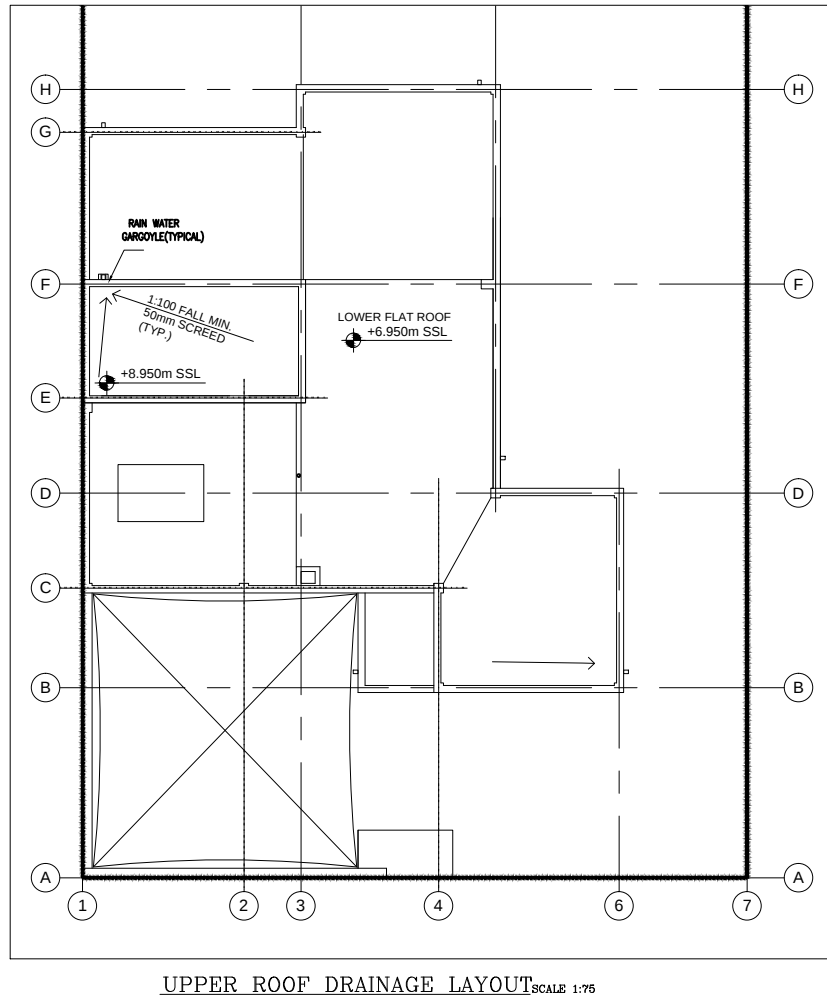
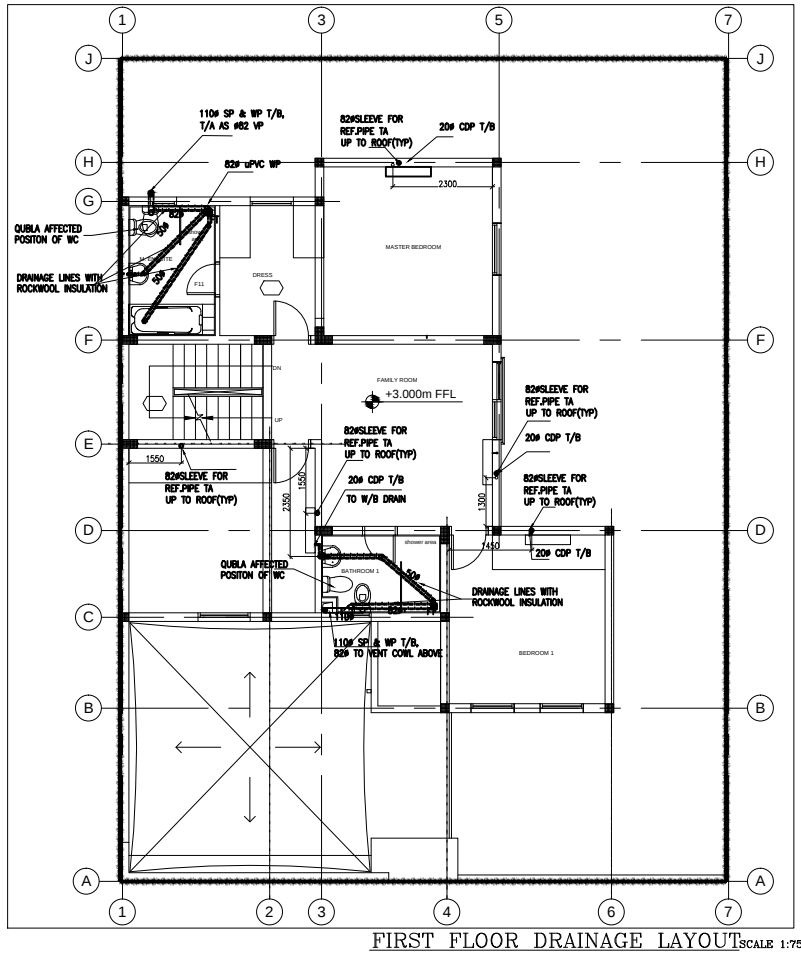
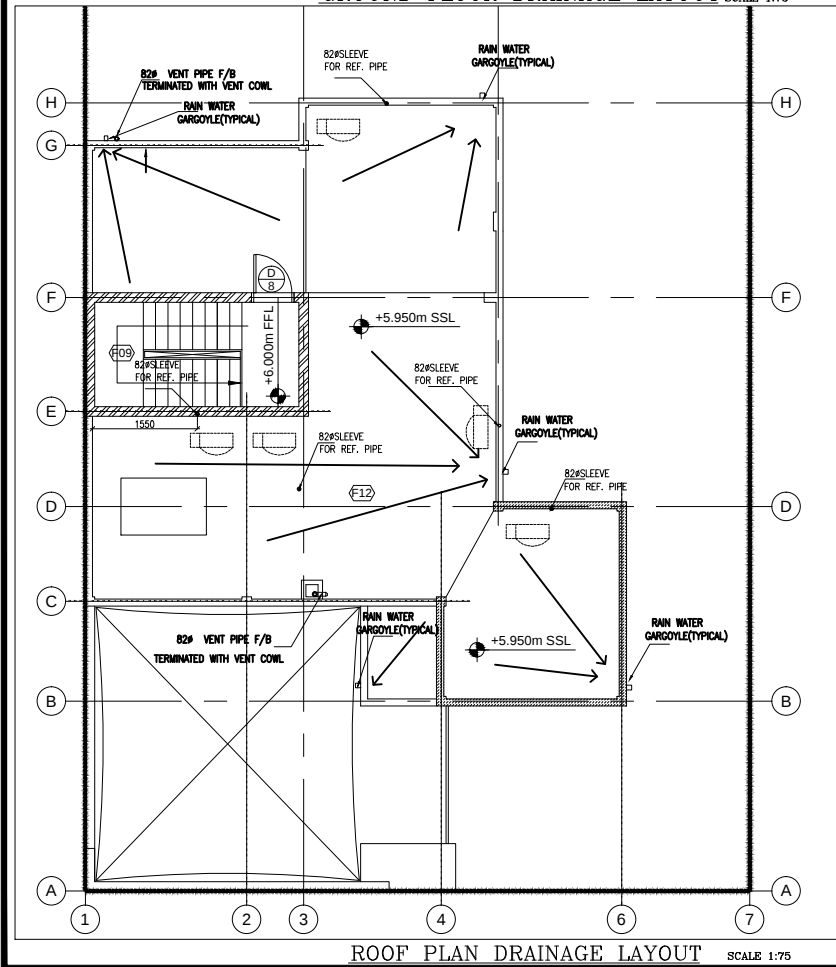
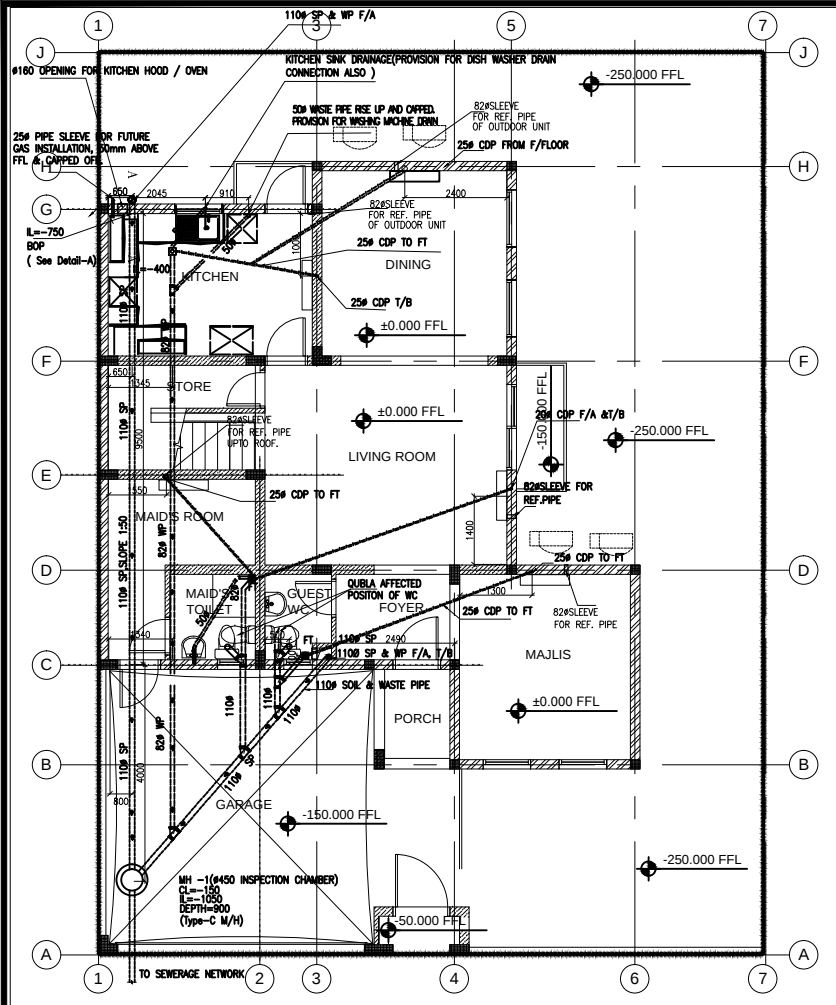


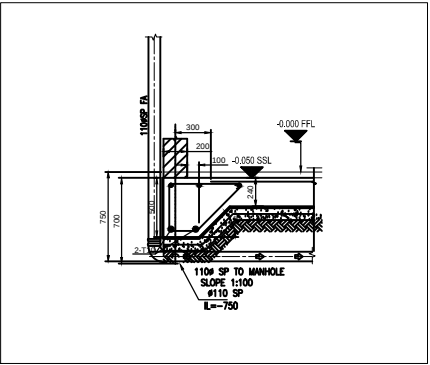
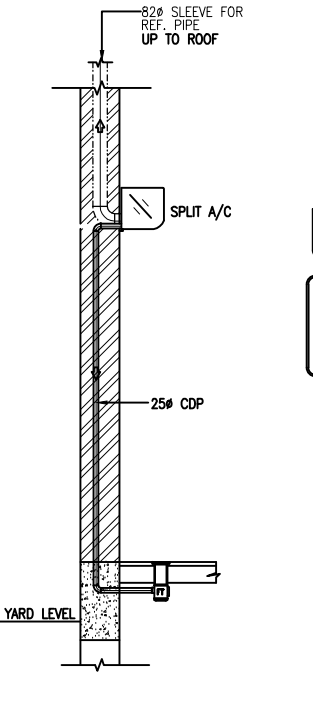
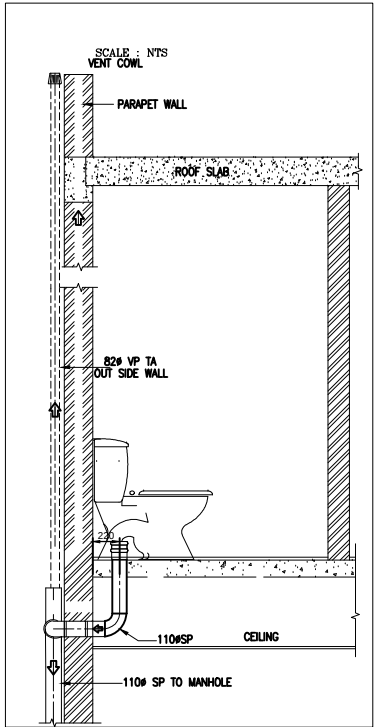


Pipe Support Details		
PIPE DIA(mm)	VERTICAL (m)	HORIZONTAL (m)
32	1.2	0.5
40	1.2	0.5
50	1.2	0.6
82	1.2	1
110	1.2	1

LEGEND :	
SP	PIPE
UP	PIPE
CDP	CONDENSATE DRAIN PIPE
FT	FLOOR TRAP
MM	MANHOLE
MC	MANHOLE COVER
W	WATER
TA	TO ABOVE
TR	TO BELOW
FTL	FINISH FLOOR LEVEL
CL	CORNER LEVEL
L	INVERTED LEVEL
D	DEPTH
U/G	UNDERGROUND
MC	MANHOLE COVER
MM	MANHOLE

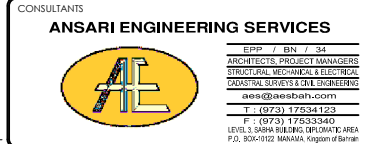
- All the WC orientation is coordinated with Qibla direction and based separate approved master plan layout .
- The ac locations and sleeves is as per latest ac shop drawings.
- The invert level of manhole for villa no .707 to 748 is -0.900 and all other villa manhole IL is -1050, based on the site instruction no.8.

PIPE SUPPORT SCHEDULE



REFERENCE DRAWINGS			
TITLE	DRAWING NO.	REV.	DATE
ARCH LAYOUT	DA029-AES-AB1-XX-PL-AR-200	C01	15 JUNE 2014
DRAINAGE LAYOUT	DA029-AES-AB1-XX-PL-MD-200	C01	15 JUNE 2014
AC LAYOUT	DA029-AES-SALA-XX-PL-MH-200	C01	15 JUNE 2014

0	FOR APPROVAL	20-06-16	SM
No.	DESCRIPTION	DATE	SIGN

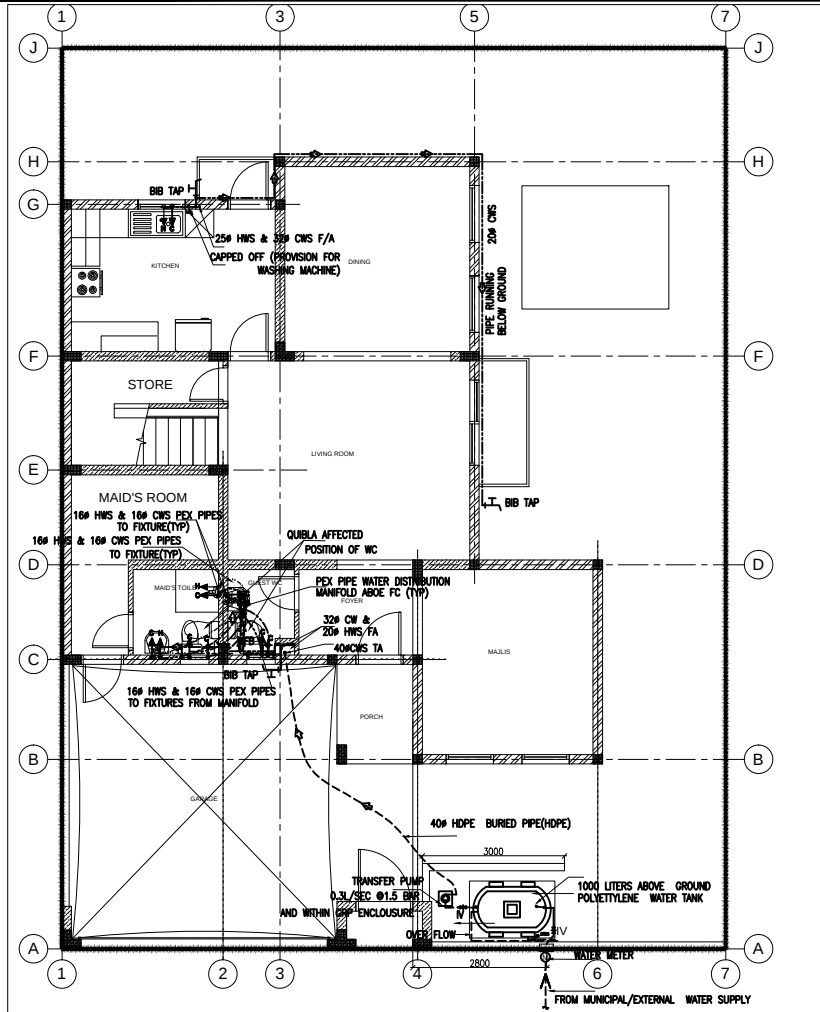


DESIGN STAGE	AS -BUILT DRAWING
PURPOSE OF ISSUE	FOR APPROVAL

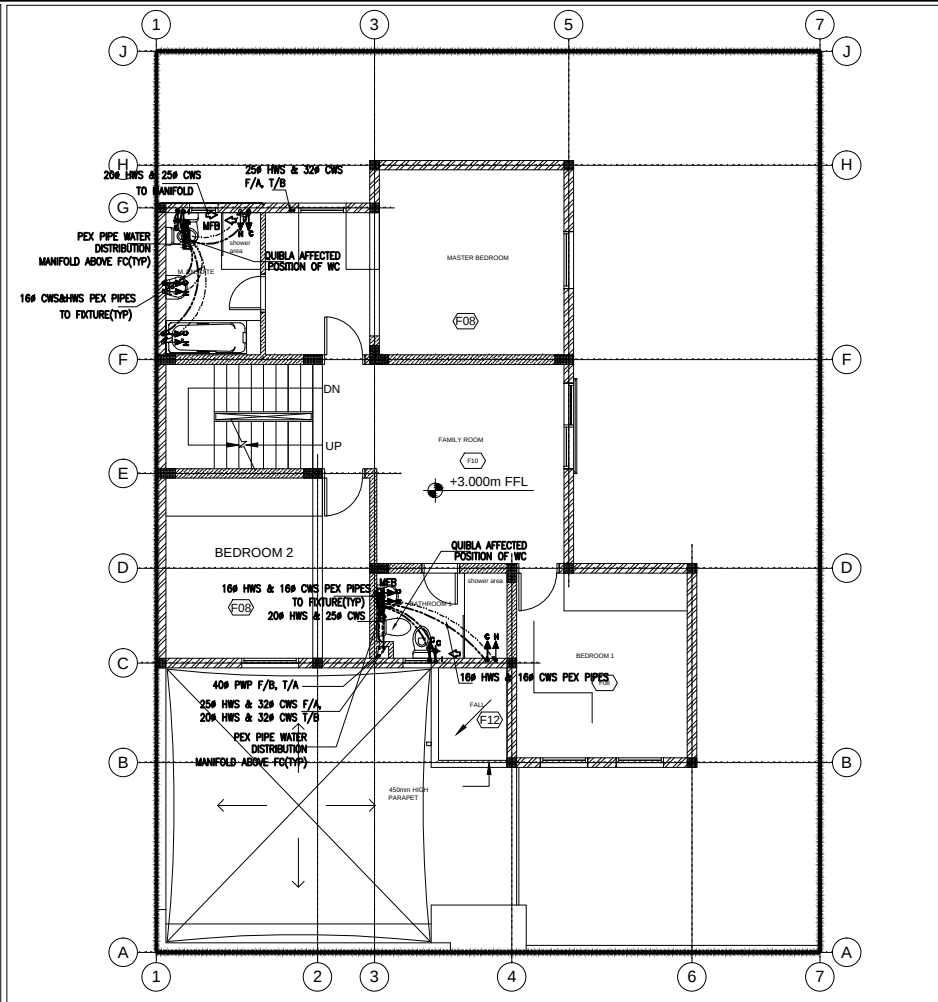
DRAWING TITLE	TYPE-AB1 DRAINAGE LAYOUT-AS BUILT
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SCALE	DESIGNED BY	DRAWN BY : AG
AS SHOWN IN A1	CHECKED BY:SM	APPROVED BY : BT
	ORIGIN DATE	ISSUED DATE : 20-06-2016

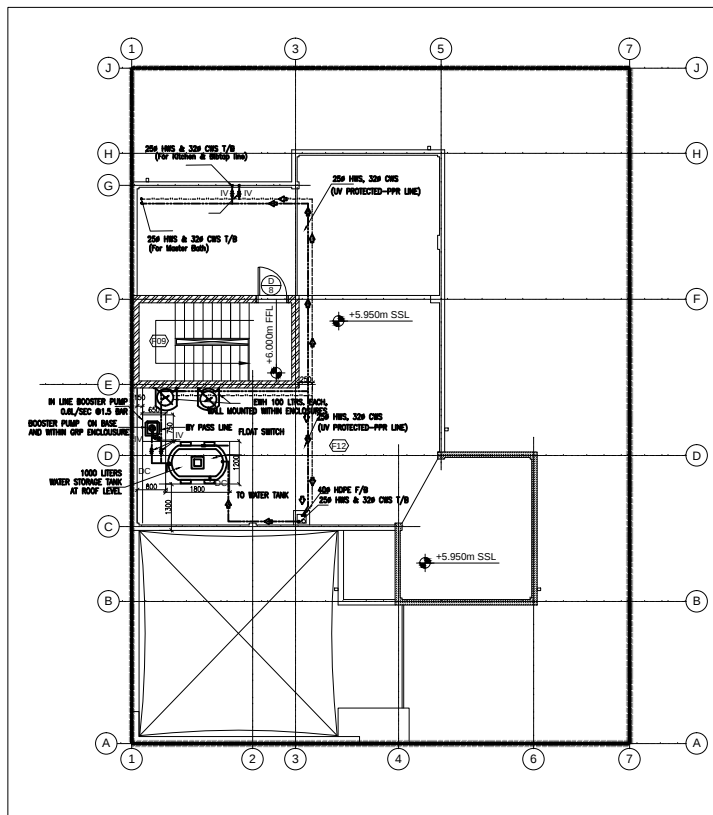
DRAWING NO.	AMAS-AB1-AB-13-PL-SD-5001	REV. 0
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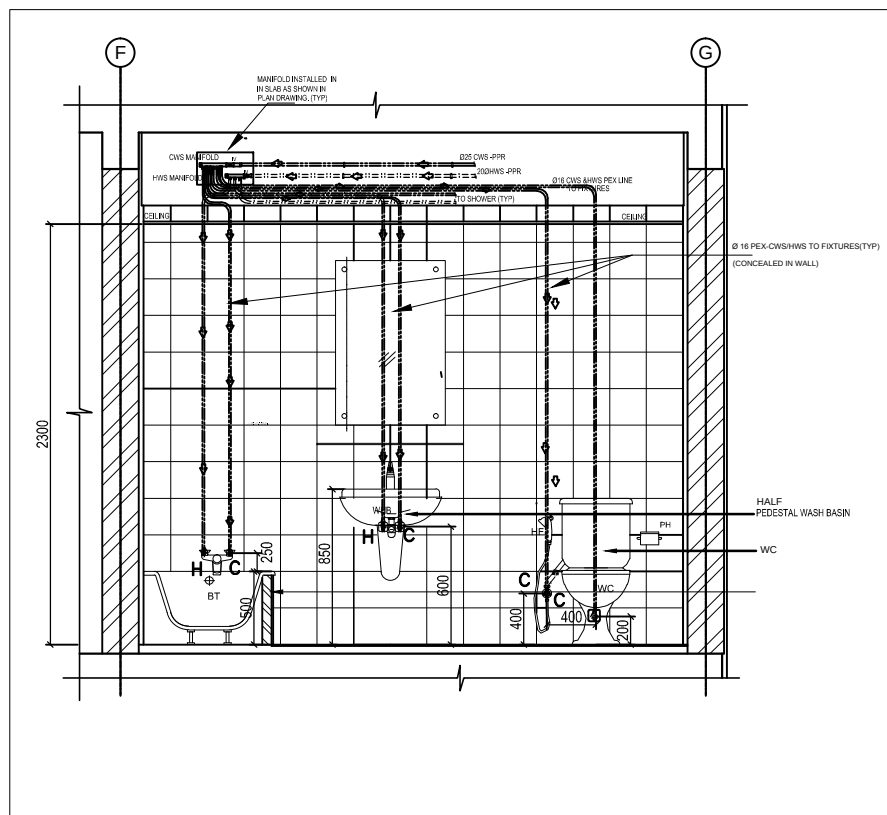
GROUND FLOOR WATER SUPPLY LAYOUT
SCALE: 1:75



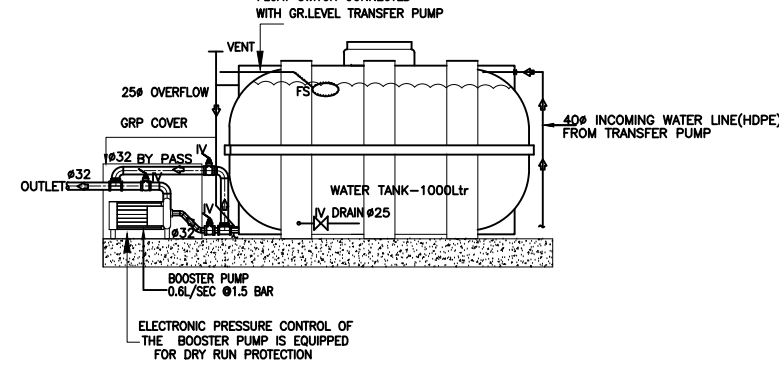
FIRST FLOOR WATER SUPPLY LAYOUT
SCALE: 1:75



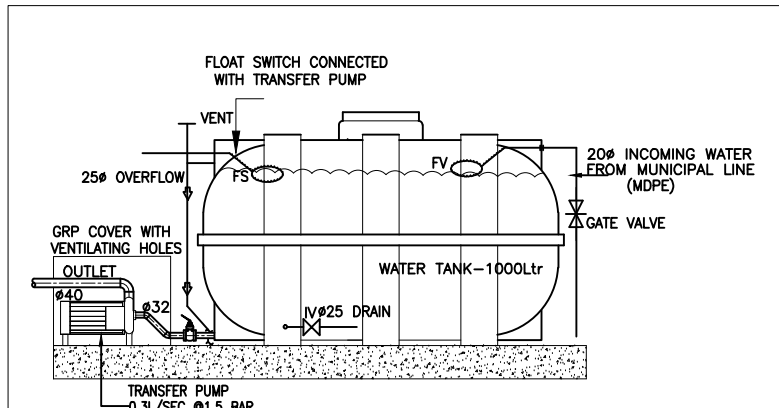
ROOF FLOOR WATER SUPPLY LAYOUT
SCALE: 1:75



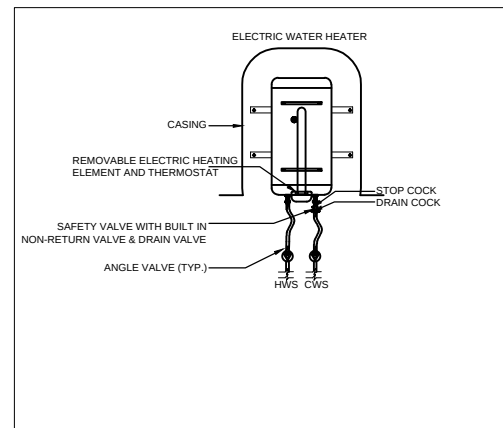
TYPICAL TOILET/BATH WS CONNECTION DETAILS(MASTER BATH)
NTS



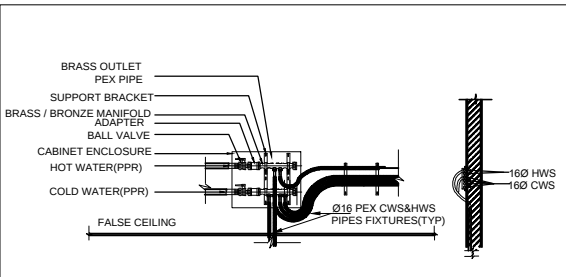
ROOF WATER TANK & BOOSTER PUMP CONNECTION DETAILS(TYP)
NTS



GROUND WATER TANK & TRANSFER PUMP CONNECTION DETAILS(TYP)



ELECTRIC WATER HEATER CONNECTION DETAILS (TYP)
SCALE: NTS



MANIFOLD CONNECTION DETAILS (TYP)
SCALE: NTS

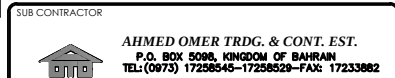
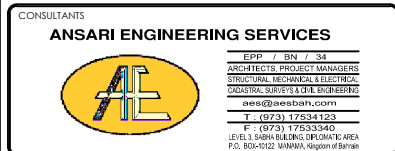
LEGEND :

CWS	COLD WATER SUPPLY
HWS	HOT WATER SUPPLY
---	FILL LINE
---	COLD WATER TAP
---	HOT WATER TAP
---	HOSE SPRAY
---	FLAT VALVE
---	FLOW SWITCH
---	WATER HEATER
---	POLYPROPYLENE
---	POLYPROPYLENE RANDOM
---	FROM ABOVE
---	FROM BELOW
---	TO ABOVE
---	TO BELOW
---	HIGH LEVEL
---	LOW LEVEL
---	FINISHING FLOOR LEVEL
---	WATER CLOSET
---	KITCHEN SINK
---	SHOWER
---	HOSE SPRAY
---	HOSE POWER
---	ISOLATION VALVE
---	MAIN CONTRACTOR
---	INNER DIA.
---	OUTER DIA.
---	GARDEN TAP
---	FALSE CEILING
---	MANIFOLD BOX

REFERENCE DRAWINGS

TITLE	DRAWING NO.	REV.	DATE
ARCH LAYOUT	DA029-AES-AB1-XX-PL-AR-200	COL	15 JUNE 2014
WATER SUPPLY LAYOUT	DA029-AES-AB1-XX-PL-MW-200	COL	15 JUNE 2014

0	FOR APPROVAL	20-06-16	SM
No.	DESCRIPTION	DATE	SIGN

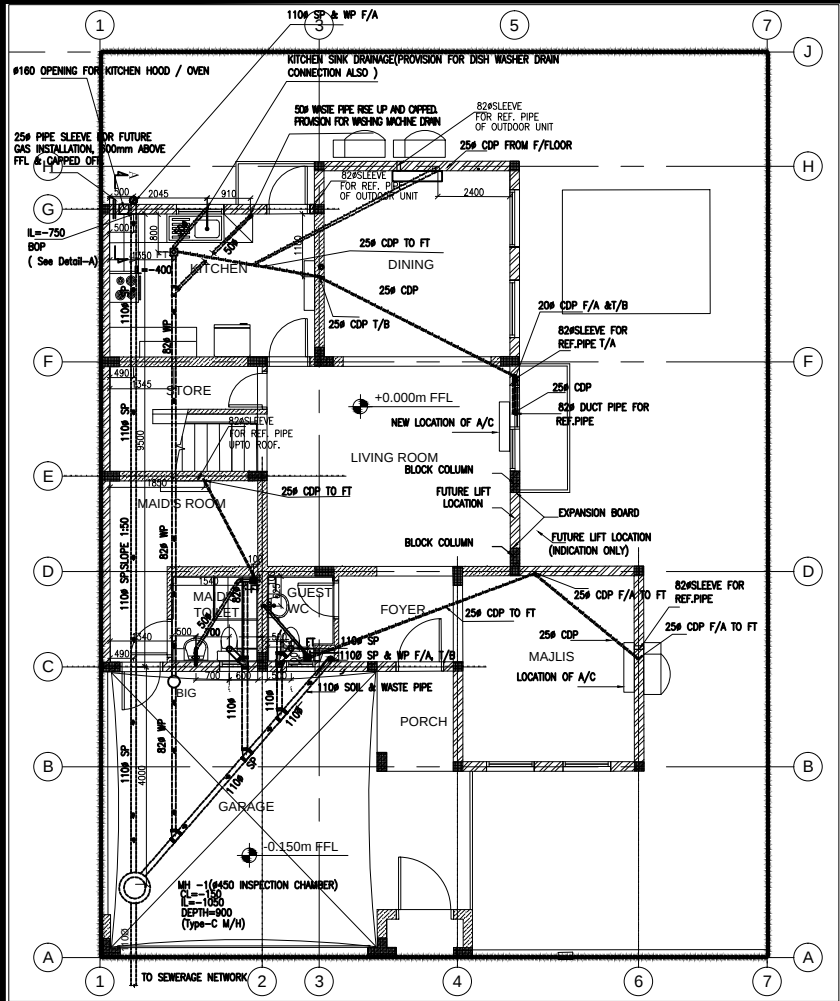


DESIGN STAGE	AS BUILT DRAWING
PURPOSE OF ISSUE	FOR APPROVAL

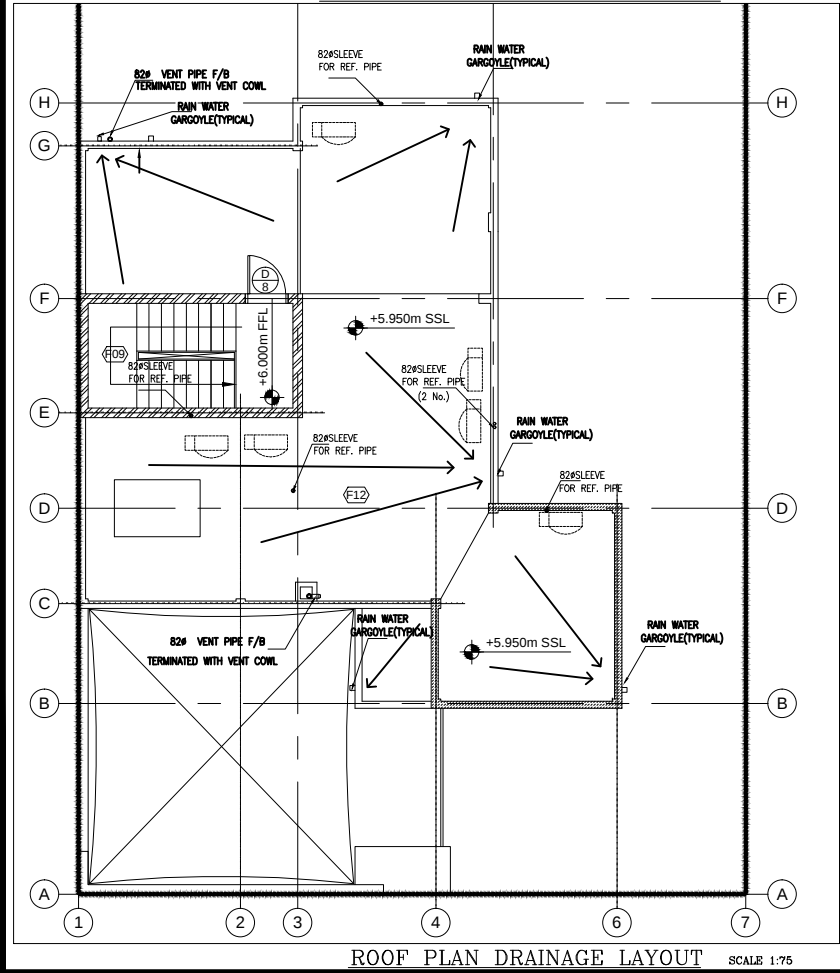
DRAWING TITLE	TYPE-AB1 WATER SUPPLY LAYOUT-AS BUILT
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SCALE	DESIGNED BY	DRAWN BY	: AG
AS SHOWN IN A1	CHECKED BY: SM	APPROVED BY	: BT
	ORIGIN DATE	ISSUED DATE	: 20-06-2014

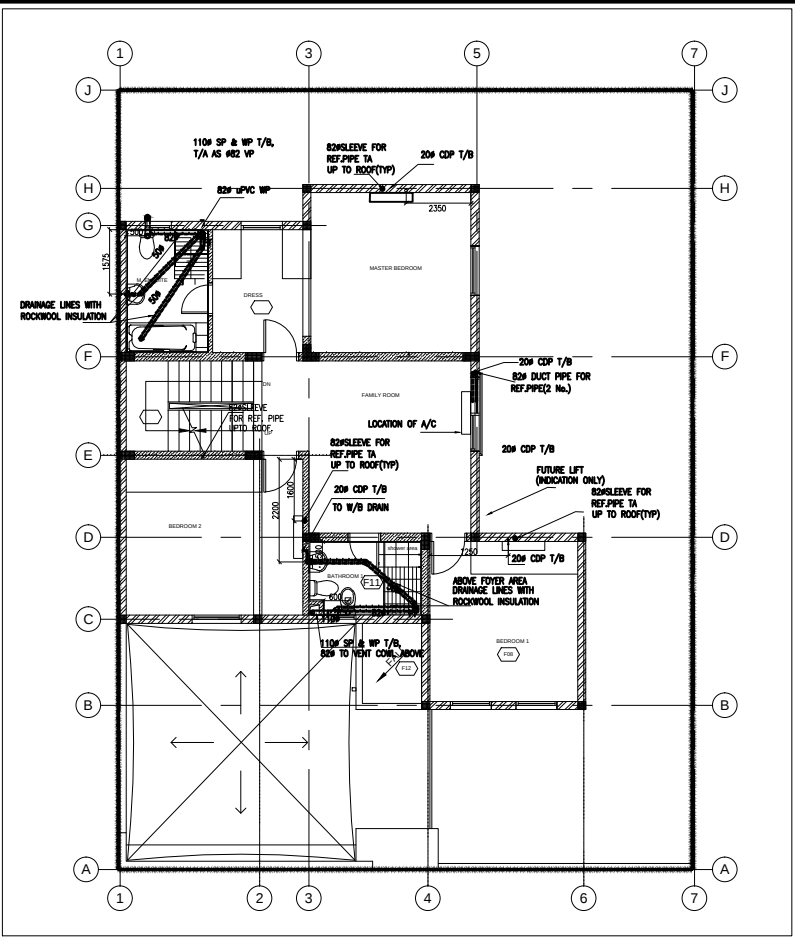
DRAWING NO.	AMAS-AB1-AB-13-PL-SD-5002	REV.	0
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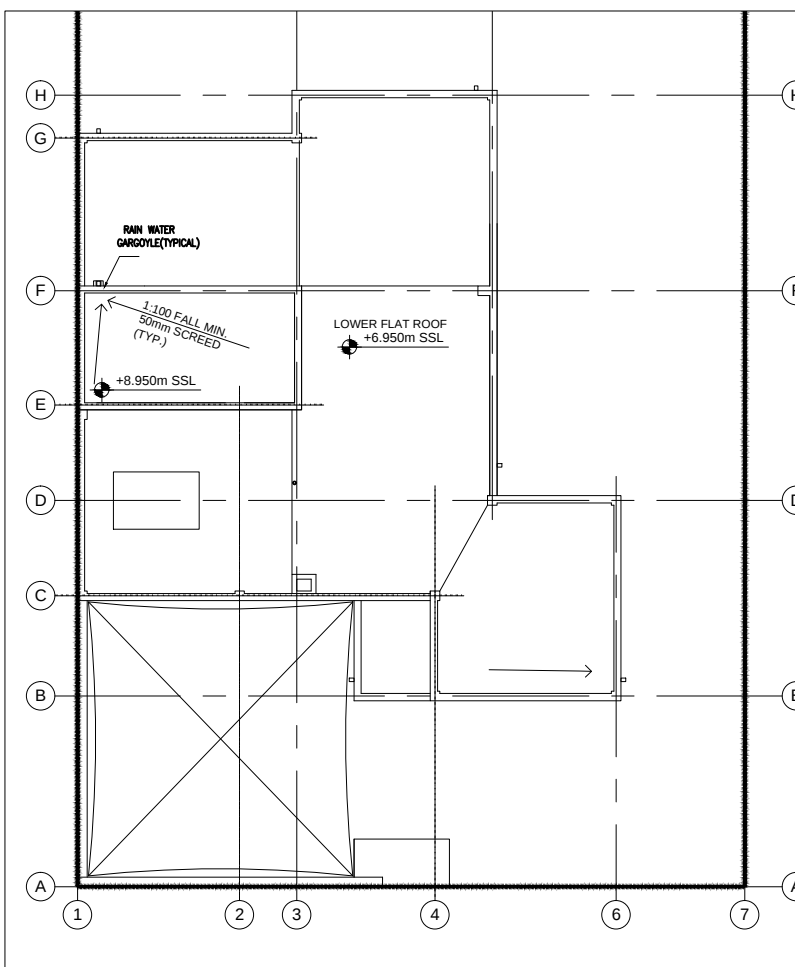
GROUND FLOOR DRAINAGE LAYOUT SCALE 1:75



ROOF PLAN DRAINAGE LAYOUT SCALE 1:75



FIRST FLOOR DRAINAGE LAYOUT SCALE 1:75



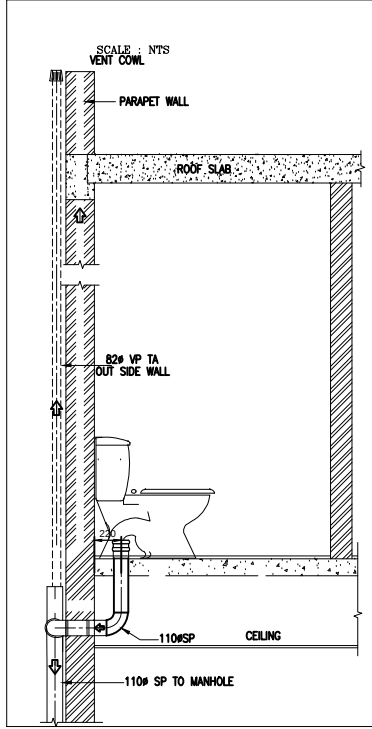
UPPER ROOF DRAINAGE LAYOUT SCALE 1:75

Pipe Support Details		
PIPE DIA(mm)	VERTICAL (m)	HORIZONTAL (m)
32	1.2	0.5
40	1.2	0.5
50	1.2	0.6
82	1.2	1
110	1.2	1

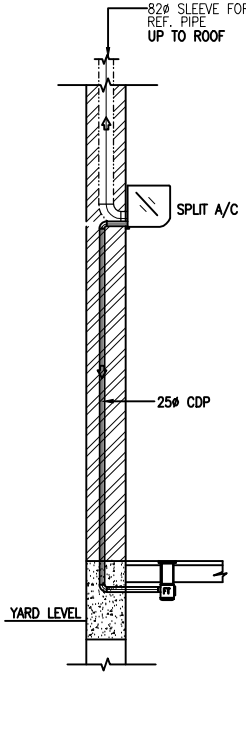
LEGEND :	
SP	WASTE PIPE
WP	WASTE PIPE
CDP	CONDENSATE DRAIN PIPE
FT	FLOOR TRAP
MB	MANHOLE
CD	CLEAN OUT
FL	FROM ABOVE
FB	FROM BELOW
TA	TO ABOVE
TB	TO BELOW
FL	FINISHING FLOOR LEVEL
CL	COVER LEVEL
IL	INVERT LEVEL
B	BOTH
U/C	UNDERGROUND
MC	MANHOLE CONTRACTOR
WH	WATER HEAD

- All the WC orientation is coordinated with Qibla direction and based separate approved master plan layout.
- The ac locations and sleeves is as per latest ac shop drawings.
- The invert level of manhole for villa no .707 to 748 is -0.900 and all other villa manhole IL is -1050, based on the site instruction no.8.

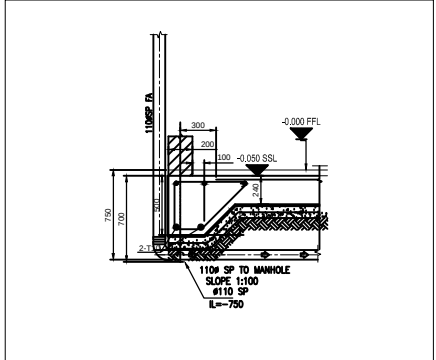
PIPE SUPPORT SCHEDULE



TYPICAL WC CONNECTION DETAIL @ FIRST FLOOR SCALE : NTS



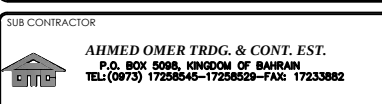
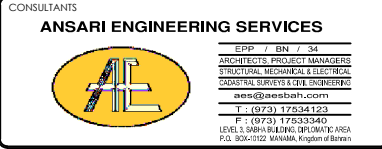
CONDENSATE DRAIN CONNECTION TO FLOOR TRAP DETAIL SCALE : NTS



SECTION A-A SCALE : NTS

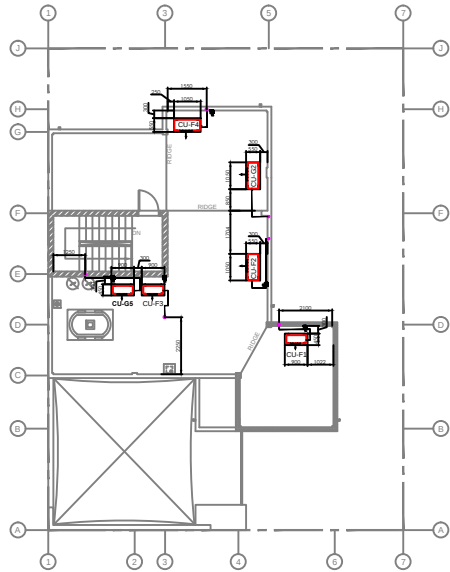
REFERENCE DRAWINGS			
TITLE	DRAWING NO.	REV.	DATE
ARCH LAYOUT	DA029-AES-AB1-XX-PL-AR-200	C01	15 JUNE 2014
DRAINAGE LAYOUT	DA029-AES-AB1-XX-PL-MD-200	C01	15 JUNE 2014
AC LAYOUT	DA029-AES-SALA-XX-PL-MH-200	C01	15 JUNE 2014

0	FOR APPROVAL	20-06-16	SM
No.	DESCRIPTION	DATE	SIGN

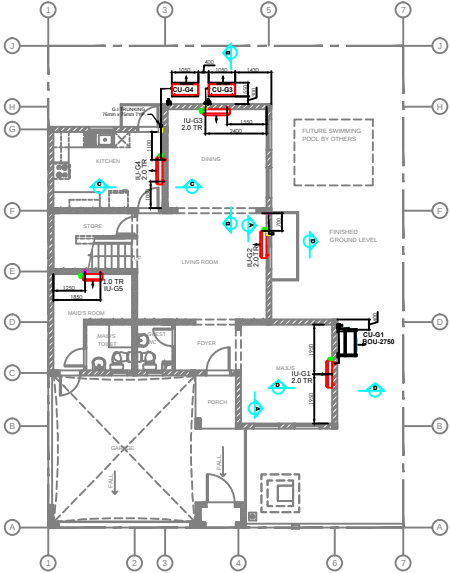


DESIGN STAGE AS -BUILT DRAWING
PURPOSE OF ISSUE FOR APPROVAL

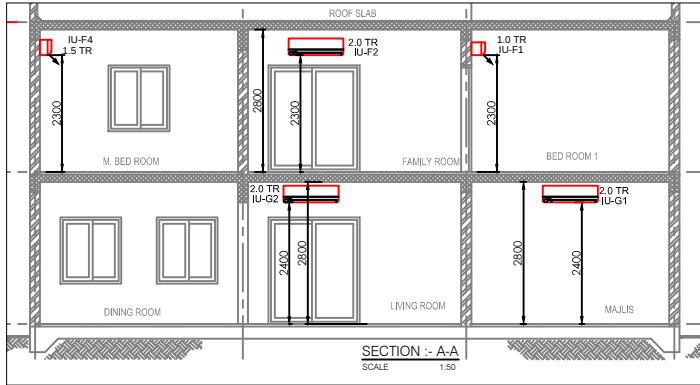
DRAWING TITLE		TYPE-AB1 DRAINAGE LAYOUT(VILLA No.609) AS BUILT	
SCALE	DESIGNED BY	DRAWN BY	: AG
AS SHOWN IN A1	CHECKED BY:SM	APPROVED BY	: BT
	ORIGIN DATE	ISSUED DATE	: 20-06-2016
DRAWING NO.		AMAS-AB1-AB-13-PL-SD-5003	
		REV. 0	



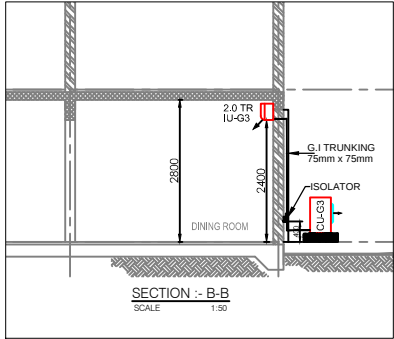
ROOF PLAN
SCALE - 1:100



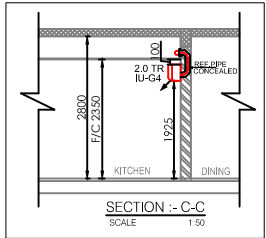
GROUND FLOOR PLAN
SCALE - 1:100



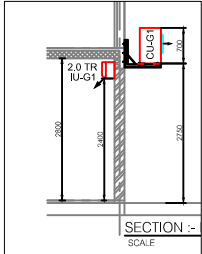
SECTION - A-A
SCALE 1:50



SECTION - B-B
SCALE 1:50



SECTION - C-C
SCALE 1:50



SECTION - D-D
SCALE 1:50

REFERENCE DRAWINGS				
TITLE	DWG No.	REVISION	DATE	
IFC DWG. AC VENTILATION LAYOUT	DA029-AES-AB1-XX-PL-MH-200	C01	15 JUNE 2014	
ARCHITECTURAL LAYOUT	DA029-AES-AB1-XX-PL-AR-200	C01	15 JUNE 2014	

A/C EQUIPMENT DETAILS						
REF.	MODEL	CAPACITY	POWER SUPPLY	POWER INPUT	UNIT DIMENSION (WxDxH)	WEIGHT
IU-G1, G2, G3 & G4	GWC4QKE-KINTAJA	2.0 TR	1 PHASE	2.4 KW	1078x246x325	16.5 KG
CU-G1, G2, G3 & G4	GWC4QKE-KINTAJA	2.0 TR	1 PHASE	2.4 KW	1078x246x325	16.5 KG
IU-G5	GWH12QB-KINTAJA	1.0 TR	1 PHASE	1.2 KW	786x275x200	9 KG
CU-G5	GWH12QB-KINTAJA	1.0 TR	1 PHASE	1.2 KW	786x275x200	9 KG
IU-F1 & F3	GWH12QB-KINTAJA	1.0 TR	1 PHASE	1.2 KW	786x275x200	9 KG
CU-F1 & F3	GWH12QB-KINTAJA	1.0 TR	1 PHASE	1.2 KW	786x275x200	9 KG
IU-F2	GWC4QKE-KINTAJA	2.0 TR	1 PHASE	2.4 KW	1078x246x325	16.5 KG
CU-F2	GWC4QKE-KINTAJA	2.0 TR	1 PHASE	2.4 KW	1078x246x325	16.5 KG
IU-F4	GWC18QD-KINTAJA	1.5 TR	1 PHASE	1.9 KW	970x224x300	14 KG
CU-F4	GWC18QD-KINTAJA	1.5 TR	1 PHASE	1.9 KW	970x224x300	14 KG

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

SITE PLAN

0	FOR APPROVAL	15-03-2017	
No.	DESCRIPTION	DATE	BY

BAHRAIN AFFORDABLE HOUSING
PUBLIC PRIVATE PARTNERSHIP
KINGDOM OF BAHRAIN

CONSULTANTS

AECOM

CONSULTANTS

ANSARI ENGINEERING SERVICES

AE

CONTRACTOR

Almosayir Air Conditioning

DESIGN STAGE

AS BUILT DRAWING

DRAWING TITLE

**AFFORDABLE VILLA TYPE AB1 - VILLA NO.609
GROUND, FIRST & ROOF PLAN
AIR CONDITIONING LAYOUT**

SCALE

AS SHOWN

REVISION NO.

AMAS-AB1-AB-13-MEC-SD-003