



MECHANICAL LEGENED			
	FLOOR DRAIN (SIPHONE-TRAP)		WATER METER
	FLOOR DRAIN (JUNCTION BOX)		WATER METER BOX (WMB)
	CLEAN OUT		GATE VALVE
	ROOF & BALCONY DRAIN		NON RETURN VALVE
	BLACK WATER MANHOLE (MH)		FLOAT
	RAIN WATER MANHOLE (RWM)		8mm GAS SHUTOFF VALVE
	GREY WATER MANHOLE (MH)		G.S.P COLD WATER SUPPLY
	FIRE HOSE CABINET		G.S.P HOT WATER SUPPLY
	EXHAUST FAN		CITY MAIN WATER PIPE
	UPVC DRAINAGE PIPE		POLYETHYLENE COLD WATER PIPE
	GALVANIZED STEEL WATER PIPE		POLYETHYLENE HOT WATER PIPE
	Ø2" UPVC DRAINAGE PIPE		COPPER GAS PIPE INSIDE 20MM P.V.C PIPE
	Ø4" UPVC DRAINAGE PIPE		COLD WATER PIPE
	Ø6" UPVC DRAINAGE PIPE		HOT WATER PIPE
	Ø4" UPVC VENT PIPE		HOT WATER RETURN PIPE
	GAS COLLECTOR		IRRIGATION PIPE
	WATER COLLECTOR		FIRE FIGHTING WATER PIPE
	WATER PUMP		VENT PIPING
	FREE DISCHARGE PIPE		REFRIGERANT PIPES
	CONDENSED PIPE		DRAIN LINE
	GAS CABINET		DRAIN POINT
	FINISH ROOF LEVEL		WATER PUMP
	FLOOR DRAIN		VENT COWL
	CW and HW collector		WATER COOLER

LIST OF Water Pipes Risers :-

Pipe NO.	Type of Pipes and Diameter
1	Ø4" FIRE FIGHTING RISER
2	Ø2" HOT WATER RETURN
3	Ø2" HOT WATER SUPPLY
4	Ø2" COLD WATER SUPPLY FROM ROOF TANK TO COLLECTOR
5	Ø2" GREY WATER TREAT TO WATER CLOSET
6	Ø2" COLD WATER SUPPLY TO ROOF TANK
7	Ø2" GREY WATER TO SAND ROOF TANK
8	Ø1" LIQUID REFREGERANT
9	Ø1" GAS REFREGERANT

Date:
02/04/2018

Drawing Scale:
1/100

Drawing No.

M17

PALESTINE
POLYTECHNIC UNIVERSITY

College of Engineering

Department of Mechanical Engineering

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Designed AND DRAWN By:
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Supervisor:
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Project Name:

Mechanical Systems
for Headquarters Charities
building in Hebron

Drawing Title:

Roof Water Layout

Notes:

All dimensions are in Meters
Unless otherwise shown.
All spot levels are in Meters.

Hollow blockwork.
 Reinforced concrete column/wall.
 Plain concrete walls.

