



**RAINWATER HARVESTING SYSTEM REFERENCE KEY**

- 1 No. Ø100mm BURIED ELECTRICAL DUCT.
- MAINS WATER TOP-UP TO UNDERGROUND TANK VIA AIR GAP.
- 1 No. Ø100mm BURIED CONTROL CABLE DUCT
- RAINWATER HARVESTING PIPEWORK
- CONTROL PANEL
- WATER FILTRATION & UV FILTER

**BUILDER'S WORKS (BY OTHERS)**

- 1.00 CIVIL INSTALLATION (BY OTHERS):
- DIGGING THE EXCAVATION AND RUNNING 2No. 100mm DUCTS FROM EACH TANK TO CONTROL ROOM.
  - INSTALLING THE MAIN TANK - NOTE A CONCRETE SURROUND AND A SLAB MAY BE REQUIRED TO ENGINEER'S SPECIFICATION IF INSTALLED IN A TRAFFICKED LOCATION. LIFTING OF TANK.
  - INSTALLING THE LEAF FILTER(S) AS PER MANUFACTURER'S GUIDELINES.

**SCOPE OF WORKS RAINWATER HARVESTING SPECIALIST:**

- 1.00 1 No. 10m³ CONCRETE UNDERGROUND TANK:
- INSTALLATION BY OTHERS.
  - CALMED INLET AND OVERFLOW SYPHON INCLUDED.
- 2.00 1 No. STAINLESS STEEL LEAF FILTER:
- INSTALLATION BY OTHERS.
- 3.00 COMMERCIAL RAIN HARVESTING SYSTEM - SUPPLY & INSTALL:
- 1 No. FLOATING FINE SUCTION FILTER ASSEMBLY 1".
  - 1 No. VARIABLE SPEED CONTROLLER.
  - 1 No. SUBMERSIBLE PUMP W/ DRY RUN SWITCH.
  - 5m STEEL CABLE FOR PUMP.
  - 1 No. INLINE SEDIMENT FILTER 10".
  - 1 No. INLINE FILTER HOUSING - 70 micron 10".
  - 1 No. TRIPLEX FILTER HOUSING 20".
  - 1 No. INLINE ROPE FILTER - 20 micron 20".
  - 1 No. INLINE ROPE FILTER - 5 micron 20".
  - 1 No. VIBROM UV SYSTEM.
  - 5m EDPM PRESSURE HOSE 1" BLACK.
  - 100mm MDPE PIPE - 1 1/2" (32mm), 12 bar.
  - 2 No. 1/2" MAINS TOP UP ASSEMBLY WITH AA AIR GAP.
  - 2 No. CONDUCTIVE ROD CONTROLLERS.
  - 1 No. 8 litres HORIZONTAL PRESSURE VESSEL.

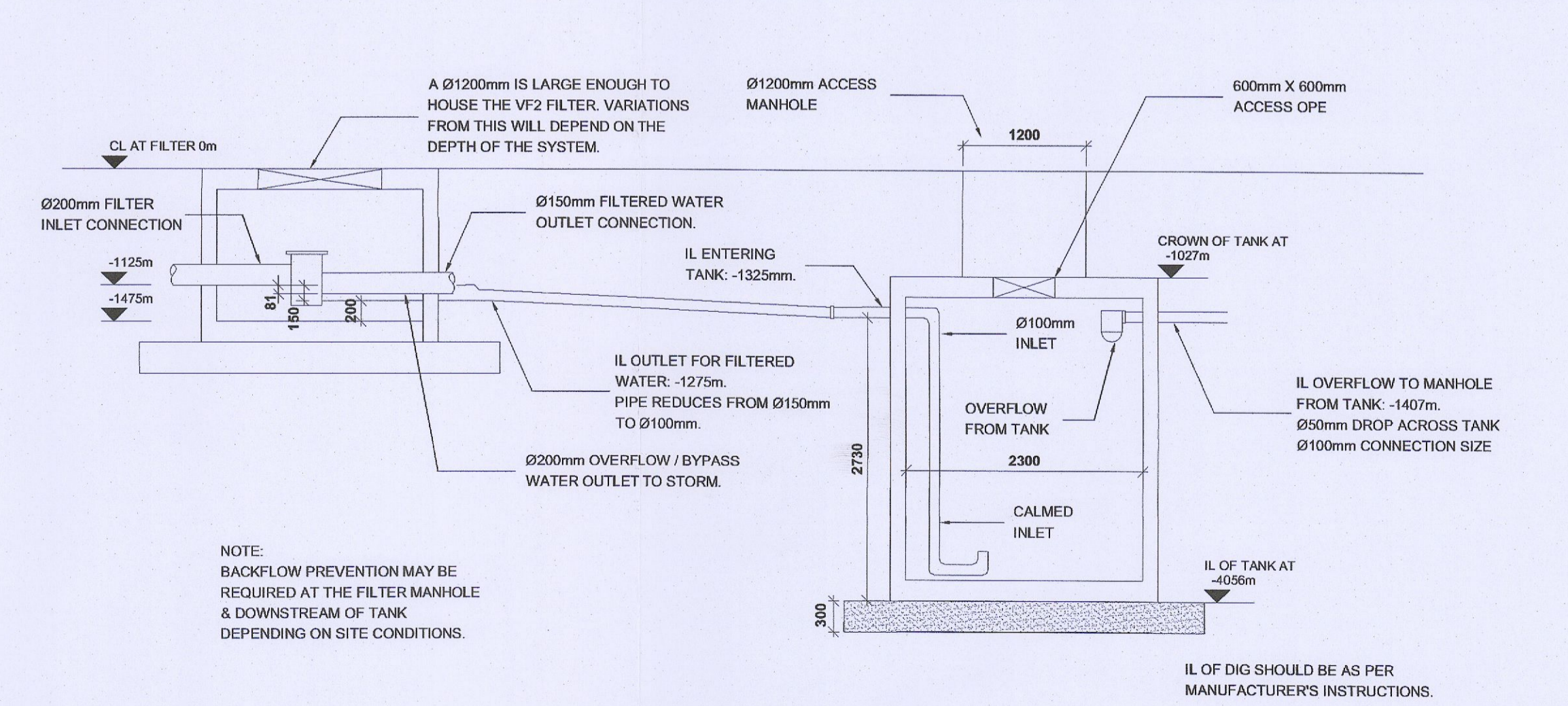
**SCOPE OF WORKS MECHANICAL CONTRACTOR**

- 1.00 MECHANICAL WORK:
- PLUMBING IN OF PUMP.
  - FITTING FLOATING FILTER ASSEMBLY.
  - PLUMBING IN INLINE SEDIMENT FILTER.
  - CONNECTING RAIN HARVESTED WATER TO HEADER TANK.
  - PLUMBING IN MAINS WATER TOP-UP SYSTEM.
  - CONNECTING OVERFLOW FROM TANK TO EXISTING OUTLET.
  - MAINS WATER SUPPLY AT OR NEAR THE HEADER TANK (WITHIN 500mm).
  - 32mm MDPE PIPE RUNNING FROM THE MAIN TANK TO THE PLANT ROOM (WITHIN 500mm) TO BREAK TANK (WITHIN 500mm), VALVED (BY OTHERS) FOR RAIN HARVESTED WATER.
  - VALVE FOR INLINE FILTER TO BE LOCATED UNDER CONTROL PANEL.
  - PIPE INSULATION.

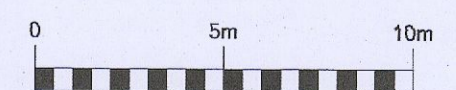
**SCOPE OF WORKS ELECTRICAL CONTRACTOR**

- 1.00 ELECTRICAL WORK:
- WIRING OF PUMP.
  - WIRING OF DRY RUN FLOAT SWITCH IN MAIN TANK.
  - INSTALLING MAIN PANEL IN PLANT ROOM.
  - TERMINATING ALL CABLES AT CONTROL PANEL.
  - WIRING OF MAINS TOP-UP SOLENOID VALVE AT HEADER TANK.
  - COMMISSIONING AND ISSUING OF SUB-SYSTEM CERTIFICATE.
  - SUPPLY AND PULLING OF CABLES TO PLANT ROOM FROM UNDERGROUND TANK.
  - 2 No. 230volt ISOLATION SPURS OFF 10amp BREAKERS AVAILABLE FOR MAINS TOP-UP AT LOCATION TBD.
  - 1 No. 230volt ISOLATION SPUR OFF 10amp BREAKER MOUNTED BESIDE THE UV CONTROLLER.
  - 1 No. 230volt ROTARY ISOLATOR OFF 20amp BREAKER AT OR NEAR THE PROPOSED LOCATION OF THE CONTROL PANEL (WITHIN 500mm).

**RAINWATER HARVESTING SYSTEM**



SCALE 1:50



STATUS	DATE	DESCRIPTION	DRN	ENG	APP	REV
S2	03.03.2023	UPDATE TO PLANT EQUIPMENT	DM	SM	CD	P02
S2	14.07.2021	PRELIMINARY STAGE ISSUE	FL	SM	CD	P01