

- 3.2 Pipeworks & Fittings : Pipes – uPVC Class 200; RRJ, SWJ
: Fittings – PVC Sch40/80
- 3.3 Isolation Valves : Mainline – Waterous [Push On]
: Lateral – Nibco [Screw End]
- 3.4 Saddles : Romac 101N
- 3.5 Swing Joints : 1 x 1¼ inch Laso Triple Swing Joint
- 3.6 Quick Coupler & Key : 1 inch RainBird
- 3.7 Power Cable [240 volts] : 3 Core Armoured & AVR
- 3.8 Solenoid Wires [24v] : Paige #14/1 & #16/1
- 3.9 Wire Connectors : 3M DBY
- 3.10 Air Release Valves : Crispin
- 3.11 Glue & Primer : Weld On

- 4.0 Installation Methods of above irrigation components.

- 5.0 How does a Valve in Head Sprinkler works – Auto & Manual?
 - 5.1 Dis-assemble
 - 5.2 Re-assemble
 - 5.3 Flow & Pressure Regulation [Performance Chart]
 - 5.4 Solenoid Coil

- 6.0 Controller Parts.
 - 6.1 Transformer
 - 6.2 AG Super Arrestor
 - 6.3 Timing Mechanism
 - 6.4 8 Station Relay Output Module
 - 6.5 Power Interconnect Module
 - 6.6 MAXI 2-Wire Module [Communication]

- 7.0 Central – How does it control the whole system?
 - 7.1 Data-bases
 - 7.2 Programming

- 8.0 Pump Station components.
 - 8.1 Motors
 - 8.2 Pumps
 - 8.3 Filtration
 - 8.4 Pressure Relief Valve
 - 8.5 Inverter
 - 8.6 Program Logic Control [PLC]
 - 8.7 Protection [Safety Devices]

- 9.0 Field Rectification Works Correct Methods.
 - 9.1 Jointing of PVC Mainlines & Laterals

- 9.2 Jointing of Wires [Splices]

- 10.0 Trouble – Shooting.
 - 10.1 Tools & Equipments
 - 10.2 Regular maintenance and checks
 - 10.2.1 Pump Station / Valves [greasing etc]
 - 10.2.2 Controllers [vermin, corrosion etc]
 - 10.2.3 Sprinklers [ants etc]
 - 10.2.4 Quick Couplers
 - 10.2.5 Isolation Valves
 - 10.2.6 Air Release Valves
 - 10.2.7 Grounding – 10ohms or less
 - 10.3 Proper documentation of maintenance with prepared forms.

- 11.0 Carrying out Repair Works – correct materials to be used

- 12.0 Spare parts stock level.
 - 12.1 Pipes
 - 12.2 Lateral Fittings
 - 12.3 Sprinklers & Parts
 - 12.4 Solenoid Valves & Parts
 - 12.5 Controllers & Parts
 - 12.6 Quick Couplers
 - 12.7 Wires & Connectors
 - 12.8 Isolation Valves
 - 12.9 Swing Joints
 - 12.10 Valves Boxes & Covers
 - 12.11 Glue & Primer

- 13.0 Questions and Answers session.

- 14.0 Field Desmonstration.