**IRRIGATION PUMP CONTROL SCHEMATIC**

**NOT TO SCALE**

**ABBREVIATIONS:**
- FS: Flow Switch
- IRC: Irrigation Control
- OL: Overload
- N.C.: Normally Closed
- N.O.: Normally Open
- TDR: Time Delay Relay
- TDQ: Time Delay on Energized

**PUMP CONTROL DESCRIPTION:**
1. The irrigation control panel will activate IRC contact using 24 VAC coil.

2. Upon closure of the IRC contact, the TDR will be initiated and the TDR contact will close and remain closed for a present time which is adjustable from 30 seconds to 2 minutes, preset to 45 seconds.

3. The closure of the TDR contact will initiate motor starter relay, resulting in the operation of the pump.

4. With the pump in operation, water will flow and activate the closure of the flow switch, FS.

5. After the preset time for the TDR has elapsed, the TDR contact will open. The pump shall continue to run until:
   A. the irrigation control panel activates the opening of the IRC contact or
   B. when the flow switch contact opens due to no water flow.

**NOTE:**
See civil drawing for complete site plan.